



# Western University OF HEALTH SCIENCES

*The discipline of learning. The art of caring.*



**2010 - 2011  
University Catalog**

Western University of Health Sciences (Western University) is an independent, non-profit academic health center, incorporated in the State of California, and dedicated to educating health care professionals qualified to provide comprehensive health care to the family.

**Accreditation(s)**

Western University of Health Sciences is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC, 895 Atlantic Avenue, Suite 100, Alameda, California, 94501, phone number: 510-748-9001), a regional accrediting body recognized by the Council on Higher Education Accreditation and the U.S. Department of Education.

Professional accreditations for each academic program are indicated in the appropriate section of this catalog.

**Notice of Non-discrimination Policy**

Western University of Health Sciences, in compliance with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and Sections 102 and 302 of the Americans With Disabilities Act of 1990, does not discriminate on the basis of gender, race, color, national origin, religion, handicap, or sexual orientation in any of its policies, procedures, or practices. In accordance with sex discrimination laws, the University forbids acts of sexual harassment. In compliance with the Age Discrimination in Employment Act of 1967, Section 402 of the Vietnam Era Veterans Readjustment Act of 1974, and Section 12940 of the State of California Government Code, the University does not discriminate against any employees or applicants for employment on the basis of their age, their ethnic origin, their marital status, their sexual orientation, or because they are disabled veterans or veterans of the Vietnam Era, or because of their medical condition (as defined in Section 12926 of the California Government Code); nor does the University discriminate on the basis of citizenship, within the limits imposed by law. This non-discrimination policy covers admission, access, and service in the University programs and activities and application for and treatment in University employment.

Pursuant to Executive Orders 11246 and 11375, as amended, Section 503 of the Rehabilitation Act of 1973, as amended, and Section 402 of the Vietnam Era Veterans Readjustment Act of 1974, as amended, Western University of Health Sciences is an affirmative action and equal opportunity employer.

**Access to Individuals with Disabilities**

It is the policy of Western University to provide qualified persons with disabilities with access to its programs and services, when viewed in their entirety, in the most integrated setting possible. Additional information will be provided upon request from the Student Affairs Office.

**Please Note:**

Text for the catalog was prepared as of May 2010. The information herein applies to the academic year 2010-2011. Western University of Health Sciences has made every effort to ensure that the information contained in this catalog is accurate at the time of publication, but reserves the right to change the provisions of this catalog. This includes the right to discontinue courses, change requirements for admission and graduation, adjust fees or change any other regulation or policy in this catalog. **The information and policies are for informational purposes only and do not constitute an agreement or contract between Western University of Health Sciences and students, staff and faculty.**

Visitors are always welcome at the University and campus tours are available. Visitor badges are required and can be obtained from the receptionist in the Administration Center.

Office of Admissions, Mondays, 8:30 am - 12 noon, Tuesdays-Fridays, 8:30 pm - 5 pm  
University Switchboard - (909) 623-6116.

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## The President's Message

Attending an academic health center such as Western University of Health Sciences is not an automatic passport to becoming a good health professional. While a first-rate educational experience is essential, the making of a good health professional is also rooted in the nature and quality of the people involved.

There is visible and strong sense of community, of family, at Western University. We are proud of the fact that the institution is people-centered, that it seeks to develop in our students a blend between the technical and the human skills required of health care professionals. The content and substance of the curricula, as well as the instructional processes used to carry it out, reflect a humanistic approach to health care.

The University's educational programs provide training that presumes the faculty and the students are the masters and not the slaves to this institution. We believe, therefore, that it is imperative our students feel they have a place in the learning environment and that they are active rather than passive recipients of their education. Learning proceeds in ways directly related to the interests and needs of the students as well as to the demands of the health professions.

Here at Western University, a student can expect an education that will assist him or her to become a feeling, humane, sensitive and medically competent professional and not just a learned degree-holder. To that end, the University encourages a flexible and innovative "learning" environment instead of a rigid, closed "learned" one.

In a word, a student can expect the same treatment from Western University that a patient should look for from an able health professional. Thus, in the final analysis, what a student can expect from the University is measured by the success of our humanistic approach – one that requires an active partnership between you and us.

That is what goes into the education that takes place here and what Western University of Health Sciences is all about.

Sincerely,

Philip Pumerantz, PhD



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# WESTERN UNIVERSITY OF HEALTH SCIENCES

## GENERAL INFORMATION

Western University of Health Sciences (Western University) is a non-profit, independent, academic health center, founded as the College of Osteopathic Medicine of the Pacific (COMP) in 1977. The founding mission of the institution was to educate primary care osteopathic physicians for the western United States. Over the past two decades, Western University has preserved and enhanced its mission, expanding it to include educational programs in the allied health professions, pharmacy, graduate nursing and veterinary medicine.

### INSTITUTIONAL MISSION

Western University is a graduate university of medical sciences that produces, in a humanistic tradition, health care professionals and biomedical knowledge that will enhance and extend the quality of life in our communities.

### VALUES

The people of Western University are dedicated to caring as they pursue their educational, scholarly, patient care, and public service activities. The University encourages the diversity and interdisciplinarity of its programs, students, faculty, staff, and administrators. The ideals of continuous quality improvement, lifelong learning, long-term planning, fiscal strength, adaptability, and agility in the rapidly changing worlds of health care and education are realized through innovation, teamwork, and collaboration within the University as well as with its network of academic health centers and community partners.

### VISION

To be *the* graduate university of medical sciences of choice in the western United States.

### GOALS

To provide top quality, learner-centered educational programs in selected graduate medical sciences to educate a health workforce that meets the needs of the State of California and the western United States.

To link educational, research and service activities and programs in a learner-centered environment through partnerships with academic health centers and other health and education related organizations to improve the quality of life of the surrounding communities.

To ensure top quality postgraduate education and training opportunities for graduates of its programs.

To be renowned for using the Internet to promote "e-ffectiveness," "e-ficiency," and "e-learning."

To ensure organizational effectiveness and development.

### UNIVERSITY OUTCOME DOMAINS

The University has adopted a set of eight outcome domains that serve to guide its academic programs in their development and ongoing quality improvement. Within each outcome domain, each academic program has developed specific ability-based outcomes appropriate to the particular degree program. The eight domains are as follow:

1. Critical Thinking
2. Breadth and Depth of Knowledge in the Discipline/Clinical Competence
3. Interpersonal Communication Skills
4. Collaboration Skills
5. Ethical and Moral Decision Making Skills
6. Life-long Learning Skills

7. Evidence-based Practice
8. Humanistic Practice

## HISTORY

The founding institution, the College of Osteopathic Medicine of the Pacific (COMP), was established in 1977 as a direct and important response to a critical shortage of primary care physicians in the western United States. Philip Pumerantz, PhD, accepted the invitation of the college's board of directors to become the founding president in September of 1977. In January 1978, COMP received pre-accreditation status from the American Osteopathic Association. Provisional accreditation status was achieved in July of 1978 and full accreditation in February 1982.

COMP admitted its charter class of 36 students in 1978, and classes began on October 2. This occasion marked the successful culmination of efforts begun in 1974 by the State Society of Osteopathic Physicians and Surgeons of California "to seek the establishment of a college of osteopathic medicine in the State of California." The charter class was graduated on June 13, 1982.

In response to a nationwide demand for qualified clinical educators, COMP initiated a Master of Science in Health Professions Education degree program (known on campus as MSHPE) in September 1986. This program was housed within a newly created Graduate Division, and its charter class graduated in June 1987. The program has grown in subsequent years with an enrollment reflecting a wide spectrum of health professionals.

As a new decade began, COMP accepted its first class of physician assistant (PA) students who matriculated on February 2, 1990. With the addition of this program, the Graduate Division became the Division of Allied Health Professions, and subsequently, the School of Allied Health Professions. The start of the PA program signaled a new era in which COMP expanded its mission of educating family-oriented health care professionals for the western United States.

In response to a growing need for physical therapists in this country, a master's degree program in physical therapy (the MPT degree) was launched on January 6, 1992. Within the School of Allied Health Professions, COMP enrolled 49 students in the charter class and hired five faculty members for the program. The two-year, four-month MPT program educates physical therapists to function as generalists in the field who are also concerned about wellness, health promotion and a humanistic approach to the care of the whole patient.

In 1991 the institution achieved the status of an academic health center (ACH) due to its multi-faceted programs in medical and allied health education. The academic health center formed a partnership with San Bernardino County Medical Center, which moved to a state-of-the-art facility in Colton, California, and changed its name to the Arrowhead Regional Medical Center (ARMC) in the spring of 1999. The partnership, known as the Academic Center for Excellence in the Health Sciences (ACEHS), provides the University with a primary teaching hospital. ARMC sponsors the largest family practice residency training program in California and the second largest in the nation.

In August of 1996, in order to better reflect its stature, COMP was restructured into a university with a new name: Western University of Health Sciences. The College of Pharmacy also welcomed its charter class into the Doctor of Pharmacy (PharmD) program at that time. This program was the fourth college of pharmacy to be established in the State of California and prepares students in a humanistic, interdisciplinary tradition to become competent, qualified professionals. Graduates of Western University's College of Pharmacy complement other health care team members by offering their expertise in comprehensive drug therapy management.

In March of 1998 Western University created a College of Graduate Nursing in order to satisfy an increasing demand for advanced practice nurses. The College offers a Master of Science in Nursing (MSN) degree, a Family Nurse Practitioner (FNP) certificate program, and a joint MSN/FNP program for advanced practice nurses in a distance-learning format. The arrival of the World Wide Web as an electronic information management tool provides the university a unique opportunity to offer students individualized learning experiences that would be impossible through other media. Online discussion forums and e-mail also provide important lines of communication and support among distance learners, faculty, and other program personnel.

Western University founded the College of Veterinary Medicine-its fifth college-in August 1998. Shirley D. Johnston, DVM, PhD, was hired as the founding dean the following month. She is the first female dean of a veterinary college in the United States. Western University is committed to providing an

AVMA-accredited educational program that will serve as a new paradigm in veterinary education. Western University's College of Veterinary Medicine will enroll its charter class of students in the fall of 2003.

The University also founded the Center for Disability Issues and the Health Professions in August 1998. Headed by Brenda Premo, MBA, the former director of the Department of Rehabilitation for the State of California under Governor Pete Wilson, the Center works to improve the capabilities of primary health care providers to meet the growing needs of people with disabilities.

In August 1999, the University changed its Primary Care Physician Assistant certificate program to the master's degree level, effective with the class entering in August 2000. Students who complete the two-year program will be awarded the Master of Science (MS) degree in Physician Assistant Studies. Current with this program change, the faculty developed an on-line Master of Science in Health Sciences degree program, designed for licensed physician assistants who possess a bachelor's degree and seek advanced education at the graduate level.

In 2001, the Department of Health Professions Education in the College of Allied Health Professions merged the MS in Health Professions Education with the MS in Health Sciences program. The Department was renamed the Department of Health Sciences to be consistent with this degree change.

In 2003, Western University enrolled its charter students in the Doctor of Veterinary Medicine and in its Doctor of Physical Therapy programs. In addition, the College of Pharmacy began offering a MS in Pharmaceutical Sciences degree program. A new Veterinary Medicine Center opened in conjunction with the matriculation of the first class of veterinary medicine students in August, 2003. Plans are under development for a second building for the College of Veterinary Medicine

In August, 2004, the College of Graduate Nursing instituted a new entry level nursing track into its MSN program. The MSN program itself has been expanded to provide a series of master's level courses with a nurse leadership focus. This effort was followed by the establishment of a new Doctor of Nursing Practice program, which began classes in January, 2008.

The 2009-10 academic year opened with the inaugural classes of our Doctor of Dental Medicine, Doctor of Optometry and Doctor of Podiatric Medicine programs. In conjunction with the inauguration of these three new health professions programs, the university initiated the first phase of its interprofessional education program (IPE), which involves interprofessional teams from all the University's health professions programs in the analysis of clinical cases. In conjunction with these new professional programs, the University opened its newly constructed Health Education Center and adjacent Patient Care Center. In January 2010, the University enrolled the first class of students in its new Master of Science in Biomedical Sciences program, the initial academic program sponsored by the University Graduate College of Biomedical Sciences.

## **KEY FACTS ABOUT WESTERN UNIVERSITY**

- 65% of students is female; average student age is 28 years
- Total number of degrees awarded (1982 - 2010) is 8,139
- Enrollment 2009-2010 was 2,653
- College of Allied Health Professions: 385
  - Physical Therapy: 156
  - Health Professions Education: 37
  - Physician Assistant: 192
- College of Dental Medicine: 73
- College of Graduate Nursing: 255
- College of Optometry: 78
- College of Osteopathic Medicine of the Pacific: 874
- College of Pharmacy: 549
  - Doctor of Pharmacy: 537
  - MS in Pharmaceutical Sciences: 12
- College of Podiatric Medicine: 38
- College of Veterinary Medicine: 397
- Graduate College of Biomedical Sciences: 4

## **DIVERSITY STATEMENT**

The students, faculty, administration and staff of Western University of Health Sciences place great value on diversity. For us, it is a philosophy of inclusion, where pluralism and academic freedom are at its foundation. Western University is committed to an open environment that promotes, accepts and celebrates different points of view.

Western University is comprised of a community of individuals in which diversity is recognized as being the core of our intellectual, social, cultural, physical, emotional and moral lives. We are enriched by our encounters with one another and we strive to learn from each other in an atmosphere of positive engagement and mutual respect. Our understanding and acceptance of one another in the campus environment contributes to our ability to care for our patients who live in a diverse society.

The University, in accordance with various laws and beliefs, does not discriminate on the basis of race, color, ethnicity, national origin, religion, politics, disability, gender or sexual orientation in any of its policies, procedures or practices. Sexual harassment is unacceptable.

We acknowledge our guaranteed rights of free expression under the First Amendment to the Constitution of the United States. However, we also hold unique responsibilities as individuals, answerable for our own behavior and fully accountable for our actions. Seeking balance between rights and responsibilities makes us keenly aware of the dangers of defamatory, libelous or obscene behavior, the value of community and the importance of respecting our differences and commonalities.

As individuals committed to health professions education in the osteopathic tradition, we embrace the important principle of caring for the whole person-in body, mind and spirit.

Additional information, including current campus crime statistics, may be found at  
<http://www.westernu.edu/bin/safety/handbook.pdf>.

## **FREQUENTLY CALLED NUMBERS**

President	(909) 469-5200
Academic Affairs	(909) 469-5578
Admissions (DO/Health Sciences)	(909) 469-5335
Admissions (Pharmacy)	(909) 469-5542
Admissions (Veterinary Medicine/Physical Therapy/Physician Assistant)	(909) 469-5650
Admissions (Dentistry/Optometry/Podiatric Medicine)	(909) 469-5485
Bookstore	(909) 469-5416
Bursar	(909) 469-5403
Student Affairs	(909) 469-5340
Office of Student Services	(909) 469-5616
Center for Disability Issues & the Health Professions	(909) 469-5380
Department of Physical Therapy Education	(909) 469-5300
Department of Physician Assistant Education	(909) 469-5378
Department of Health Sciences	(909) 469-5397
College of Allied Health Professions	(909) 469-5390
College of Dental Medicine	(909) 706-3504
College of Graduate Nursing	(909) 469-5523
College of Osteopathic Medicine of the Pacific	(909) 469-5505
Assistant Dean of Student Services	(909) 469-5414
Clinical Education Office	(909) 469-5260
Associate Dean for Clinical Affairs	(909) 469-5508
Assistant Dean for Basic Medical Sciences	(909) 469-5654
College of Optometry	(909) 706-3506
College of Pharmacy	(909) 469-5500
College of Podiatric Medicine	(909) 706-3505
College of Veterinary Medicine	(909) 469-5628
Environmental Health & Safety	(909) 469-5528

Financial Aid	(909) 469-5353
Graduate College of Biomedical Sciences	(909) 469-5619
Guard Station (from off-campus phones)	(909) 706-3000
Learning Enhancement and Academic Development	(909) 469-5408
Library	(909) 469-5323
Multimedia Services	(909) 469-5432
Registrar	(909) 469-5342
Technical Support Services	(909) 469-5432
Security	(909) 706-3000
Western University Medical Center (Pomona)	(909) 865-2565

# STUDENT LIFE: CAMPUS FACILITIES AND SERVICES

Western University of Health Sciences  
309 E. Second Street  
Pomona, CA 91766-1854  
(909) 623-6116

The main campus of Western University is in Pomona (see map, inside back cover), a city of approximately 150,000 residents, located about 35 miles east of Los Angeles near the foothills of the San Gabriel Mountains. It is an area with a high concentration of private and state colleges and universities. Mountain resorts are nearby, and Pacific Ocean beaches, Palm Springs, Hollywood, Pasadena, Los Angeles, arboretums, theme parks, museums, art galleries, libraries, theaters, and concert halls are all within about an hour's drive.

**Banfield Veterinary Clinical Center** Building Hours: 7:00am to 11:00pm, Mondays through Friday  
7:00am to 10:00 pm on weekends  
Closed holidays

The Banfield Veterinary Clinical Center houses the Banfield Pet Hospital, the "Thing" Laboratory, the Gretchen Wyler Media Room, and a student commons area on the ground floor. The Shirley and Gary Johnston Auditorium, additional conference rooms and faculty offices for the College of Veterinary Medicine are housed on the second floor.

**Booth University Bookstore** Building Hours: 8:00 am to 5:00 pm weekdays  
Closed Weekends and Holidays (except on special occasions)

The Booth University Bookstore is a convenient source for required textbooks, supplies, and insignia gift items. Personal checks, Visa®, MasterCard, and DiscoverCard® are accepted. Telephone and mail orders are accepted with shipment made via UPS. The bookstore is open from 7:30 am until 5:30 pm Monday through Friday. Located in the rear of the bookstore is a popular gathering place, the Hop Shoppe.

**Business Center** Building Hours: 7:00 am to 5:00 pm weekdays  
Closed Weekends and Holidays

The Business Center houses the departments of Business Services (Bursar's Office, Accounting and the Treasurer's Office), Office of University Building and Security, and Human Resources.

**Harris Family Center for Disabilities and Health Policy** Building Hours: 8:00 am to 5:00 pm weekdays

**Health Professions Center (HPC)** Building Hours: 6:30 am to midnight weekdays  
6:30 am to 11:00 pm weekends  
8:00 am to 5:00 pm on some holidays, except  
closed on Thanksgiving weekend and during Winter Break

The Health Professions Center includes facilities for the College of Pharmacy, the College of Graduate Nursing, and the College of Osteopathic Medicine of the Pacific (COMP) as well as other university services.

The first floor includes a 54-seat auditorium; a 200 seat lecture hall; three "in-the-round" high-tech classrooms; break-out rooms for small group learning activities; Feldscher Hall; a large student lounge with two kitchens, 80-inch screen television, pool table, ping pong table, and vending machines; administrative and faculty offices for the College of Pharmacy; and a pharmacy/medical office museum. The offices of the Center for Academic and Professional Education and the office of Learning Enhancement and Development are also located on the first floor of the Health Professions Center.

The second floor of the HPC has a 200-seat lecture hall, administrative and faculty offices for the College of Osteopathic Medicine of the Pacific and the College of Graduate Nursing, clinical skills laboratories, research laboratories and conference rooms.

**Health Education Center (HEC)** Building Hours: 7:00 am to midnight weekdays  
7:00 am to 10:00 pm weekends  
Closed on some holidays, Thanksgiving weekend and during Winter Break

The Health Education Center is a 178,000 square foot educational building. It includes two 350-seat auditoria; six 125-seat lecture halls; 56 small group break-out rooms, teaching laboratories for optometry, dentistry and podiatric medicine; research laboratories for faculty; and faculty and administrative offices for the College of Podiatric Medicine, the College of Dental Medicine, the College of Optometry, and the College of Osteopathic Medicine of the Pacific.

**Health Sciences Center (HSC)** Building Hours: 7:00 am to 11:00 pm weekdays  
7:00 am to 10:00 pm weekends  
Closed on some holidays, Thanksgiving weekend and during Winter Break

The 72,000 square-foot Health Sciences Center features a unique central staircase. The first floor consists of two large amphitheater-style lecture halls; Tribute Walk, a donor recognition area; and Compatriot's Hall, an elegant meeting room with kitchen facilities. The first floor also houses the administrative and faculty offices of the College of Allied Health Professions, including the departments of Physician Assistant Education and the Master of Science in Health Professions Education, and some faculty offices for the College of Veterinary Medicine.

The second floor of the Health Sciences Center consists of an anatomy laboratory, the administrative and faculty offices of the Physical Therapy Education Department; physical therapy clinical skills laboratories; physical therapy faculty research laboratories, the osteopathic manipulative medicine teaching laboratory; the office of Institutional Research, and temporary offices for faculty of the College of Veterinary Medicine.

**Harriet K. and Philip Pumerantz Library and Learning Resources Center**

Building Hours: 7:00 am to 11:00 pm Monday through Thursday  
7:00 am to 6:00 pm Friday  
11:00 am to 7:00 pm weekends  
Closed on Holidays

The Pumerantz Library and Learning Resources Center houses the University's book, journal and media collections. It also provides office space for the library staff and the staff of the Department of Instructional and Informational Technology. The ground floor is reserved for library circulation services, the University Archives, history of medicine museum, and study space where students may use laptops to connect to the University's network. Books and serial collections are housed on the second and third floors, respectively. The Edward Tessier Learning Center is on the third floor. Offices for library and information technology staff are found on the fourth floor. The basement serves as the University's Network Operations Center and provides office and work space for the Technical Support Staff. The IT Help Desk is located in the basement.

**Nursing Sciences Center** Building Hours: 8:00 am to 5:00 pm weekdays

The Nursing Sciences Center, located at 350 S. Garey Avenue, houses the faculty and administrative offices for the College of Graduate Nursing, as well as the offices for the Office of Institutional Research, on the first floor. The second floor contains the administrative offices for the Colleges of Dentistry, Optometry and Podiatric Medicine and offices for the Assistant Vice President for New Program Development and the Assistant Provost for Interdisciplinary Education.

**Patient Care Center** Building Hours: 8:00 am to 5:00 pm weekdays

The Patient Care Center is a 78,000 square foot facility providing ambulatory patient care services for optometry, dentistry, medicine and podiatric medicine. The Center also contains an optometry dispensary and a dispensing pharmacy. Adjacent to this building is a 611 space parking structure.

**Student Services Center/South Campus Building** Building Hours: 7:00 am to 5:00 pm weekdays

Closed weekends and holidays

The offices of Student Affairs/Registrar and University Admissions are located on the first floor of the Student Services Center. The second floor houses the office of Financial Aid.

**University Administration & Alumni Center** Building Hours: 7:00 am to 5:00 pm weekdays

Closed weekends and holidays

The University Administration Center houses the University's executive offices. The first floor contains the offices for the Provost/Chief Operating Officer, Vice President of University Advancement, and the offices of Major Gifts, Special Events, Communications, Publications, University Counsel, and Foundation, Corporate and Government Relations. The offices of the Harris Family Center for Disability and Health Policy are located in the basement.

The Office of the President and the Office of Senior Vice President for Executive Affairs are located on the second floor. The Saul Bernat Board Room and the VIP Lounge with a kitchen provide space for meetings and special events.

**University Research Center** Building Hours: 7:00 am to 5:00 pm weekdays

Closed Weekends and Holidays

The Alumni Center is a 32,000 square-foot facility, located at the corner of Gibbs and Second Streets. The main level of the Alumni Center includes the office of Vice President for Research and three lecture halls: Cooper Hall, Swift Hall and Trendle Hall. The lower level of the University Research Center accommodates various research laboratories and their ancillary facilities.

**University Services Center** Building Hours: 7:00 am to 5:00 pm weekdays

Closed Weekends and Holidays

The University Service Center is a 6,500 square foot building housing administrative offices for the departments of Facilities, Environmental Health and Safety, Special Events, and the Assistant Provost for Strategic Operations and Clinical Services.

**Veterinary Medicine Center** Building Hours: 7:00am to 11:00pm, Mondays through Friday  
7:00am to 10:00 pm on weekends  
Closed holidays

The Veterinary Medicine Center, a building of 25,000 square feet, houses administrative and faculty offices of the College of Veterinary Medicine, Problem Based Learning break-out rooms, conference and meeting rooms, and a gross anatomy laboratory.

**Veterinary Pathology Center** Building Hours: 7:00 am to 5:00 pm, Monday through Friday

**Western University Campus Gourmet**

The Western University Campus Gourmet is a food court providing a Subway sandwich shop, a TCBY yogurt store, and Mamma Ilardo's pizza. The 1950s diner-themed eating establishment is designed to serve the Western University community, shoppers at Antique Row, neighboring business populations, and the general public. Hours of the food court are: 7:30 am to 6 pm Monday through Friday and Saturdays and Sundays from 10 am until 4 pm.

## **PERSONAL SAFETY**

The University strongly suggests the following precautions for its students, faculty and staff:

- Since some streets through the campus are open to vehicular traffic, please use extreme caution when crossing between buildings and do not congregate on the street.
- Please make sure your car is locked at all times in the parking lot.

- You should be advised that the doors to some buildings are locked at 5:00 p.m. It would be to your advantage to walk to the parking lot with a friend or close associate if you are leaving after business hours. If you find it necessary to work or study late, you should advise security personnel on campus before leaving the building so that someone can watch you walk to your car.
- During the daytime hours, security guards are assigned to patrol the parking lots directly north, and northeast behind the North Campus buildings along First Street, and they patrol the lots behind the South Campus building, Health Sciences Center and Health Professions Center. It is strongly suggested that you do not leave your car overnight in any of the parking lots or streets surrounding the campus, as a security guard is not on duty after 11:00 p.m. Mondays - Thursdays, after 7:00 p.m. on Fridays, and after 10:00 p.m. on Saturdays and Sundays.
- Do not admit an unknown person into the building. If someone says they need help, offer to call the proper person (police, paramedics, etc.).

In case of emergency, if someone from the University needs to be informed or contacted, please call:

Campus Security	(909) 469-5609
Direct Line	(909) 706-3000

Additional information regarding safety on campus, as well as our most recent crime statistics, can be found at <http://www.westernu.edu/xp/edu/safety/safety-handbook.xml>.

## **SOCIAL NETWORKING RECOMMENDATIONS**

There are many potential benefits to social networking web sites; however, it is important to also recognize and consider the inherent risks that may come with their use. In an effort to inform and protect our students, we recommend that you consider the following:

1. Understand that your online presence can negatively reflect upon your professional image. Weigh the risks and benefits of self-disclosure.
2. Remember that electronic sites are never completely secure, and that what is posted can be seen by many.
3. Respect copyright laws, and reference or cite sources appropriately. Plagiarism applies online as well as in print.
4. Remember that University/College or Hospital partner logos and trademarks may not be used without written consent from the owner(s) of that logo or trademark.
5. Always respect the delicate relationship between patient and health care provider; student and faculty member; and employer and employee.
6. Ensure that information you post complies with existing policies and laws governing privacy and dissemination of data (e.g., HIPAA, FERPA, etc.)
7. Clearly state that the views expressed are your own and do not represent the views of others.

# STUDENT SERVICES

## Recreational Facilities

Western University provides YMCA or designated fitness club individual memberships for students at a minimal cost. If interested, students may sign up at registration. The YMCA is within walking distance of the Pomona campus and offers coeducational facilities for swimming, racquetball, basketball, exercise programs, etc. The fitness club provides non-prime time racquetball courts, Nautilus exercise equipment, aerobics, Jacuzzi, steam rooms, etc. Family memberships may be purchased at reduced rates throughout the year.

On the campus, the Health Professions Center Student Commons provides billiards, television, ping pong; and the parks offer picnic tables, basketball and volleyball. There are also numerous tennis courts, golf courses, ski slopes, and hiking trails in the immediate area.

Upon request, discount booklets to California attractions and theme parks are available in the Student Affairs Office.

## Community Activities

The Western University "This Week," which is updated every week, lists Western University seminars and events that are open to students, faculty, staff and families.

Area colleges publish monthly calendars of social, cultural and educational events that are posted on the student bulletin board behind the lecture halls.

## Student Government

Currently, 70 organizations have been established within the student body. The umbrella for all of the other organizations is the Student Government Association, which is charged with official representation of the student body.

Student Government Association (SGA) - Students are encouraged, individually and collectively, to express their views on issues and administrative policy on campus. Through the elected representatives of the student body and membership on various University committees, students have the opportunity to participate in the administrative activities of the University. This body represents the students in all matters of concern with regard to faculty and administration.

The objective of the Student Government Association is:

- a. To act as elected representatives of the student body in all matters with regard to the faculty, administration, fellow professionals and the public-at-large.
- b. To ascertain and express student opinion in matters pertaining to the University.
- c. To formulate and execute policy on matters relative to the student body.
- d. To budget and disburse funds for student activities or other related functions.
- e. To organize and implement various educational, social and community service projects.

Students are invited to select representatives on the following University committees:

**Commencement Committee** - The purpose of this committee is to plan and, in some areas, implement the University's graduation ceremony and related events. The committee submits to the President the results of its deliberations for this consideration and approval. The committee and its chair are appointed by the President. The Student Government Association President and the President (or an appointee) of the graduating classes are also voting members.

**The Humanism in Health Sciences Committee** - To create a climate for defining, teaching, and implementing humanism and diversity through various ongoing programs. These programs are grounded in a philosophy that fosters valuing the diversity and humanness of persons on our campuses and in our communities. The committee will support and encourage scholarly activities that promote humanism and diversity.

**Library Committee** - One representative from each class on campus will be a voting member. The duty of the Committee is to advise the Librarian in matters of concern to the faculty and students relevant to the Library.

In addition, the Student Government Association has authorized the establishment of several committees:

**Academic Committee** – The purpose of this committee is to review and make recommendations to the Student Senate on student complaints and grievances concerning academic matters. This committee also reviews and makes recommendations on proposed academic policy changes arising from the faculty or administration of the University.

**Finance Committee** – The elected Treasurers from each class are voting members of the Financial Aid Committee. The purpose of this committee is to formulate annual budget recommendations, and review long range SGA activity projections and needs. Upon request from the SGA or the Student Senate, review the existing or proposed University budget and funding priorities contained therein. The student members may be excluded from certain meetings if the discussion includes confidential material from other students' files.

**Bylaws Committee** - Each Class President shall be a member of this Committee. The purpose of the Committee is to review legislation that has been referred to the Committee by the Student Senate, review the Student Body Bylaws for contraction, ambiguity, or unconstitutionality, and generate legislation regarding such matters with the purpose of correcting them.

**Community Outreach Committee** - The Community Outreach Committee's purpose is to serve the local community and foster students' service efforts. Funds are allocated to this Committee from the SGA budget to execute SGA-sponsored community outreach activities.

**Campus Recreation Committee** - This committee coordinates campus recreation and sporting events.

**Student Relations Committee** - Chaired by the Student Body Secretary, this committee serves to facilitate communication between the SGA and the student body. It works with students, university faculty and administration and campus media to disseminate information affecting students.

## STUDENT ORGANIZATIONS/CLUBS

Western University has a wide range of student clubs and other organizations that allow students to explore particular areas of interest. For a current listing of these student organizations and their missions, please select the following link: [WesternU Clubs & Interest Groups - Student Affairs - Western University of Health Sciences](#).

## STUDENT EMPLOYMENT

Because of the nature of the academic programs of the University, students are urged to use great caution in seeking employment during the academic year.

## HARRIET K. AND PHILIP PUMERANTZ LIBRARY AND LEARNING RESOURCES CENTER

Location: Corner of Third and Gibbs Streets – entrance is on Gibbs Street

Hours:            Monday – Thursday 7:00 am to 11:00 pm  
                  Friday 7:00 am to 6:00 pm  
                  Saturday, Sunday 11:00 am to 7:00 pm

The mission of the Harriet K. and Philip Pumerantz Library is to support excellence in education, research, and clinical activities of Western University of Health Sciences through the provision of information resources.

Pumerantz Library holds collections in osteopathic medicine, general medicine, dental medicine, optometry, podiatric medicine, basic sciences, veterinary medicine, nursing, pharmaceutical sciences, and allied health. The library has individual and group study spaces, and each area provides network connections, including wireless connectivity, for students who bring laptops.

Librarians and staff provide assistance with locating and using traditional and electronic information sources. In addition to the information resources and basic services the library provides for the students, the library offers many value added services that help students with their studies. The reference staff provides instruction on how to use the resources that can make your school life and clinical life easier,

in addition to teaching students how to evaluate and effectively use the information. The library also offers research assistance via email and instant messaging.

Pumerantz Library's collection of electronic resources provides ready access to a wide variety of full-text and multimedia information, both on-campus and off-campus. It is possible to search the library's online catalog, renew books online, and place holds on books via the online catalog. The library offers Interlibrary Loan and Document Delivery service, and maintains partnerships with other academic libraries which provide access to books, articles, and other materials not held in its collections.

**Note:** More detailed information regarding library services, policies, and procedures may be found on the Library's Web site at <http://www.westernu.edu/library>.

## **HARRIS FAMILY CENTER FOR DISABILITY AND HEALTH POLICY**

The Harris Family Center for Disability and Health Policy assists students with disabilities from the time of admission to graduation. The Center is located on campus at 390E. Second Street/College Plaza, (909) 469-5385 voice, (909) 469-5520 TDD or email [bpremo@westernu.edu](mailto:bpremo@westernu.edu).

### **HFCDHP Services**

Each student at Western University is unique. Only upon consultation with the student, dean and faculty member can specific plans for accommodations be made. To assist with a documented disability, staff from HFCDHP may communicate, when appropriate, with the instructor and may also ask the student to discuss his/her needs with the instructor. Decisions on appropriate accommodations, auxiliary aids and/or services are made following an individualized assessment of each request and after discussion of the options available with one of the CDHP staff.

The following is a sample list of the types of services and accommodations that might be provided, based upon HFCDHP's assessment of each student's specialized needs:

- academic modifications
- disability management advising
- auxiliary aids
- examination accommodations
- mobility assistance
- physical access and architectural modification (i.e., building platforms or adding disabled parking spots)
- reader services
- study skills advisement
- taping of academic lectures
- transcription services for specific classes
- extended time for examinations
- a private, quiet, well-lit room for examinations
- alternative testing formats
- consultation with staff of CHIHP and professors regarding facilitation of education of students with disabilities

It is a student's responsibility to provide timely and sufficient written medical documentation about the student's disability or disabilities. Students must check with the Center about documentation requirements. Students must request services or accommodations directly from the Center, which in consultation with the student, can recommend the appropriate services or accommodations. There is no charge to students for services that are specifically needed to support the educational program.

For additional information, contact Ms. Sandra Lawler at (909) 469-5441; TDD (909) 469-5520 or check the Center's web page at [www.westernu.edu/cdihp](http://www.westernu.edu/cdihp).

## **OFFICE OF INTERNATIONAL AND CROSS-CULTURAL PROGRAMS**

The Office of International and Cross-cultural Programs (OICP) was established in 1989 to promote student cross-cultural experiences locally and internationally. The program's goals are to:

- Develop foreign-based clinical training opportunities for interested Western University students to experience primary health care in foreign countries as part of their professional growth;

- Instill in students the knowledge and skill needed to provide quality health promotion and disease prevention services in cross-cultural settings;
- Develop student and faculty awareness of the principles and goals of the international primary health care movement and its adaptation locally to improve the status of primary health care in our communities, the state, and the country;
- Encourage research in cross-cultural primary health care delivery and education in foreign countries; and
- Advocate for osteopathic approaches to health care delivery and education in foreign countries.

## **HUMANISM AND THE HEALTH SCIENCES**

In 1996 the University established the Humanism in the Health Sciences Committee. The committee's working definition of humanism is: Humanism is a way of caring that is fundamental to positive interaction and is manifested as a responsiveness to the needs of fellow human beings through respect, compassion, empathy and understanding.

The mission statement of the Humanism in the Health Sciences Committee states: To create a climate for defining, teaching, and implementing humanism throughout the University. Programs are grounded in the philosophy, which fosters valuing the diversity and humanness of persons at our locations and in our communities. The committee will support and encourage scholarly activities that promote humanism.

Activities of the committee include:

- The annual publication of a scholarly journal, *Humanism in the Health Sciences*, which features articles, poetry, commentaries and essays. The journal is student run, edited and produced;
- Curriculum development: Belief System and Patient Care Program funded by the National Institute of HealthCare Research; and
- Care Teams and Monthly Care Teams News.

## **STUDENT HOUSING**

Western University offers a secure online listing of available rentals, both local to the campus and nationwide for our student rotation. A local map, the real estate sections of local newspapers, and information on activities in the surrounding communities are available in the Student Affairs Office and on the WesternU website. Incoming students may wish to subscribe to the local newspapers: the *Claremont Courier*, 111 South College Avenue, Claremont, 91711; and the *Inland Valley Daily Bulletin*, 2041 E. 4th Street, Ontario, 91761-1020.

All students on clinicals/clerkships are responsible for making their own housing arrangements. Some hospitals offer housing on a first-come, first-served basis during your assignment at their facility. It is the student's responsibility to contact the hospital for information regarding availability and cost of housing. Please note: the University provides a housing referral service as a courtesy only. The University assumes no responsibility for the accuracy of information provided by property owners or other third parties, and each student should independently verify the condition of any property, its amenities, security arrangements, etc. Under no circumstances shall the University have any responsibility or be liable for damages, losses, injuries or liabilities of any nature relating to any housing provided by third parties.

## **STUDENT PARKING**

Students have the option to purchase an annual parking pass for \$400. The purchase of a yearly parking sticker can be included as part of a student's financial aid package, with the submission of a paid receipt.

The collection of the funds will be conducted by the Bursar's Office, and students will be permitted to charge the parking fees on their student accounts.

The University will provide full-time security for parking lots between the hours of 7:00 a.m. to 11:00 p.m. Monday through Friday. If students are planning to be on campus after 6:00 p.m. during the week, they should move their cars to the Health Sciences Center parking lot after 6:00 p.m. Students should park their cars in the Health Sciences Center parking lots on Saturdays, Sundays or holidays.

City Parking Lots - Those who elect to park in the metered lots without a permit will be required to pay \$2.00 per day per vehicle. Parking along the streets is permitted with certain posted restrictions.

Motorcycle and secured bicycle parking is available in front of the Health Sciences Center and the Health Professions Center.

**PSYCHOLOGICAL COUNSELING SERVICES:**

**1-800-234-5465** or [www.pbhi.com](http://www.pbhi.com)

In an effort to respond to the needs of our students, the University has developed a student assistance program, which provides confidential psychological counseling services for students and their families. This service is provided by PacifiCare Behavioral Health and assists students with problems of living (including personal, marital, family, stress, financial and legal issues) that may impair a student's ability to perform adequately in his or her professional training program. The service is accessible 24 hours a day, 365 days per year.

**OFFICE OF LEARNING ENHANCEMENT AND ACADEMIC DEVELOPMENT  
(FIRST FLOOR, HEALTH SCIENCES CENTER)**

The Office of Learning Enhancement and Academic Development (LEAD) is a part of the division of Student Affairs. The LEAD Office's goal is to help each Western University student successfully complete his or her course of instruction. The Office assists students in many ways. Office counseling personnel interview students in academic difficulty and evaluate their respective approaches to learning, studying, and processing information. The counselor devises and implements methods to solve identified barriers to successful learning and aids individual students during their processes of resolution. Office personnel plan and implement group workshops to enhance learning skills each year for students in each Western University program. The LEAD Office also prepares and distributes handouts to students on learning styles, time management, group study, processing information, memory, test preparation, group study, anxiety and stress management, listening, note taking, comprehension, and critical reading and thinking. Additional learning enrichment forums, workshops, and the establishment of on-campus reviews for course exams or licensing/certifying examinations are developed by this Office in response to the expressed needs and interest of students.

The LEAD Office administers the Tutorial Assistance Program (TAP), working with tutors, tutees, and the faculty as a team. TAP provides supplemental academic instruction for students in academic difficulty. Competent and sensitive peer tutors, recommended by the faculty from each college, facilitate course content instruction. Students are scheduled individually or in small groups to work with a tutor. The LEAD Office works closely with the tutors and tutees during the tutoring process to ensure that effective tutoring is maintained.

The LEAD Office assists in the administration of the Summer Medical Sciences Prep Program (SMSPP). Office personnel coordinate, submit and oversee the SMSPP budget, assist the SMSPP Director in program planning, and provide students with individual and group study skills instruction. SMSPP is a four-week program designed to orient incoming, first-year, medical, physician assistant, and physical therapy students, to the Western University campus and community, and to ease adjustment to the demands of their academic environment. It does this by providing an introduction to Gross Anatomy, Biochemistry, and Pharmacology taught by Western University faculty. During the program the LEAD Office endeavors to enhance the students' sense of belonging by working closely with individual students in overcoming environmental, social, cultural, or academic barriers that may interfere with their learning. Students are encouraged to monitor their own personal and social adjustments as well as their academic progress.

The LEAD Office serves all Western University students. All academic and personal counseling and referrals to other campus support services are completely confidential. Office personnel are available for students on a walk-in basis or appointments can be made by phone or email. The office is located in the Health Professions Building on the Second floor in Room 235. Office hours are 8:30 a.m. to 4:30 p.m., Monday through Friday. The Director, David Hacker, can be reached by phone (909) 469-5408 or email at dhacker@westernu.edu.

**UNIVERSITY REGISTRAR  
(FIRST FLOOR, STUDENT SERVICES CENTER)****Student Files: Access and Privacy**

The Family Educational Rights and Privacy Act of 1974 (FERPA), also known as the Buckley Amendment, affords students certain rights with respect to their educational records. These rights are established upon receipt of the student's first deposit and include:

1. The right to inspect and review the student's education records within 45 days of the date the University receives a request for access. Students should submit to the Office of the Registrar a written request that identifies the record(s) they wish to inspect. A form for this purpose is available on-line or in the Office of the Registrar. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, the Registrar shall advise the student of the correct official to whom the request should be addressed.

2. The right to request the amendment of the student's education records that the student believes are inaccurate. Students should write the University official responsible for the record, clearly identifying the part of the record they want changed, and specify why the record is inaccurate. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing. Whether or not a student requests a hearing and regardless of the outcome of any such hearing, the student may, in any event, insert into his/her files a personal written explanation concerning any material the student believes is inaccurate, misleading, or otherwise inappropriate.

3. The right to consent to disclosures of personally identifiable information contained in the student's education record, except to the extent that FERPA authorizes disclosure without consent. Exceptions that permit disclosure without consent include school officials with legitimate educational interests; certain government officials in order to carry out lawful functions; appropriate parties in connection with financial aid to a student; accrediting organizations; lawfully issued court orders or subpoenas; and persons who need to know in cases of health and safety. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office  
U.S. Department of Education  
400 Maryland Avenue, SW  
Washington, DC 20202-4605

5. The University may disclose Directory Information without a student's prior written consent. The University designates the following as Directory Information: the student's name, address, telephone number, email address, full or part-time status, major field of study, dates of attendance, degrees and awards received, and the most recent previous educational institution or agency attended by the student.

6. Students may restrict the release of Directory Information, except to school officials with legitimate educational interests and others as indicated in paragraph 3 above. To do so, a student must make the request in writing to the Office of the Registrar, 309 E. Second Street, Pomona, CA 91766. Once filed, the request becomes part of the student record until the student instructs the University in writing to have the request removed.

Western University currently maintains the following types of educational records that are directly related to its students:

### **Admissions Files**

The Director of Admissions is responsible for maintaining files that contain letters of recommendation for admission to the University, transcripts of work performed at other institutions, required standardized test scores, plus the applicant's supplementary application. The Director of Admissions, Members of the Admissions Committee and the President have access to these files for the purpose of carrying out the admissions function. After an applicant has been admitted and is actually registered, the files are combined with those of the Registrar.

### **Registrar's Files**

The Registrar is responsible for maintaining files that contain official Western University transcripts and copies of occasional letters written by faculty and administration, along with students' replies. These letters generally concern academic progress, examinations, etc. Members of the faculty and administration have access to the files for use in student advisement. The Registrar also has access to the files to maintain them and to provide authorized data to authorized persons. In addition, the Registrar may also release student information (name, address, etc.) to selected third party agencies working on behalf of the University. A

listing of third party agencies currently receiving student information may be accessed by contacting the Registrar's Office at (909) 469-5491.

If any material or document in the educational record of the student includes information on other students, the University will not supply the actual material or document. Instead, only the specific information contained therein that directly relates to the student seeking access will be provided. In addition, no student may have access to:

- (a) Financial records of parents or any information contained therein, or
- (b) Any confidential recommendations to which the student has properly waived the right of access.

### **Reviewing the File**

Students and former students may review any of the above files that directly relate to them upon completion of a form available from the Registrar. On this form the student will specify the records he/she wishes to examine. The Registrar will then collect the desired material. In no case will access be withheld more than 45 days after the proper request has been made. If the student is beyond commuting distance, the University will also supply copies of material in the file.

Except for Directory Information and except as to certain parties listed in FERPA, the University will not release to outsiders any student's file, or information contained in it, unless prior written consent has been obtained from the student.

A student (or applicant for admission) is permitted to waive access to confidential recommendations written on his/her behalf regarding (1) admission to any educational agency or institution, (2) an application for employment, or (3) the receipt of an honor or honorary recognition.

A student who consents to release to outside parties any part of his/her file must do so in writing, personally signed and dated. Such writing must specify the records to be released, the reasons for such release, and the names of the parties to whom such records will be released. A form is available in the Registrar's Office for this purpose. A student whose consent is required may also request a personal copy of the specific records in question. The University will maintain a record identifying all outside parties who have requested or obtained access to a student's educational records and the specific interest they had in obtaining such access. This record will be available only to the student and to the University officials previously named who are responsible for maintaining the various files.

All such records are made available to students with the following limitations:

- a. Recommendations submitted to the department by third parties under conditions of confidence, e.g., letters of recommendation, will be shown only upon receipt of a signed release by the third party;
- b. Student records requiring the interpretation of a professional, i.e., medical, psychiatric, psychological testing, etc., must be reviewed in consultation with the appropriate professional;
- c. Under certain circumstances, the University may request written permission of the student to provide demographic data such as names, addresses, etc., to persons or agencies outside the University conducting research or other scholarly activities.

**Other Student Files:** Records of students and graduates are maintained by the program in accordance with University rules. The original application and supporting materials are maintained by the Office of the Registrar. In addition, the program maintains an academic profile record for each student, including information related to academic and clinical performance in all phases of the program. Course grades are recorded on the appropriate profile sheet as soon as computed. This file is maintained for department and student use. It is NOT meant to serve as an official record of grades. Final course grades are submitted to the University Registrar and only then become part of the official record/transcripts. Transcripts of the work completed are maintained and may be requested from the University Registrar.

### **TRANSCRIPTS**

Enrolled students may view their transcript on-line via BanWeb. No verbal grades or class ranks will be given at any time. A grade change report will be generated upon request whenever a grade change occurs. No grade will be changed unless the instructor certifies in writing to the Registrar that an error occurred in computing or recording the grade or that the student has remediated an Unsatisfactory grade after being directed to do so by the appropriate Academic Dean as recommended by the committee in each respective College responsible for student academic progress. All recorded grades remain on the official transcript

unless a clerical error occurs. Remediated grades are recorded next to a grade of "U" or "I". Only the remediated grade is calculated into the GPA.

Official transcripts may be requested via BanWeb. There is a \$6.00 fee for an official transcript. Official transcripts are mailed directly to the recipient by the University.

Official transcripts bear the signature of the Registrar and the seal of the University. Transcripts will not be provided to students who are delinquent in their financial obligations to the University, including the Library, or to any of its affiliated hospitals or clinics. Transcript requests will be processed within 7-10 business days. If the University has knowledge that a student or graduate is in default on any federal, state, outside agency, institutional loan or service obligation, the University will withhold all official transcripts, State or National Board Scores, and letters of recommendation for internships, residencies, employment, staff privileges, specialty certification, and licensing. Remember to allow two weeks for processing of transcript requests. Rush transcripts are available for a \$21 fee for each sent via First Class Mail and a \$25 fee for each sent via Federal Express. Rush transcripts ordered by 5 p.m. will be available for pickup after 9 a.m. the following working day.

To maintain the integrity of academic transcripts, educational institutions certify only academic work completed at that institution. This is the expectation of Western University when it issues its own official transcripts, and this is what Western University respects when official transcripts are entrusted to it during the application process. Therefore, the University will not produce or certify copies of official transcripts from other institutions.

## **DIPLOMAS**

Diplomas will be issued approximately six to eight weeks after the Registrar receives all final grades verifying that a student has completed all academic requirements for a specific program.

## **CLASS RANK**

Student's class ranking, with the exception of MSHS, FNP/MSN and MSPS, may be obtained from the Registrar's Office in writing, with appropriate identification. The class ranking is based on letter grades and/or percentages.

## **STUDENT LOAN DEFERMENT PROCESSING**

Western University of Health Sciences participates in the National Student Clearinghouse, located in Herndon, Virginia. The University submits a report of students' enrollment status to the Clearinghouse monthly, which in turn supplies verification of enrollment to lending agencies.

A number of lenders and loan servicing organizations that are members of the Clearinghouse participate in a Paperless Deferment Process. With this process, no paper forms need to be completed by either students or schools - the student simply calls his or her servicer to request a deferment. The servicer then posts a deferment to the student's account after the student's verbal order is matched against the Clearinghouse electronic data verifying in-school status.

If a lender needs a deferment form processed, bring it to the Registrar's Office. The Registrar's Office will then forward all deferment forms to the Clearinghouse, which will verify the student's enrollment to the lender. Western University of Health Sciences does not supply this information directly to lending agencies that participate in the National Student Clearinghouse.

If a student has registered late, this information may not be reported until the submission of the next tape. The Clearinghouse requests the student take the following steps if a collection letter has been received:

1. Call the lending agency to see if a deferment form was received between the time the Clearinghouse supplied the information and the lending agency sent the collection letter.
2. If, after calling the servicer, it still appears that the deferment has not been processed, the student may call the Clearinghouse at (703) 742-7791 and ask for a Student Service Representative. The representative will verify the date on which the deferment form was received by the Clearinghouse, the date the deferment was certified and mailed, the enrollment status that was certified, and where the forms were sent.
3. If an emergency exists -- for example, the student is 150 days delinquent and being threatened with default -- the Clearinghouse will intervene on the student's behalf by faxing another enrollment certification to the servicer. Further, it will work with the servicer to ensure that the form is processed on a high-priority basis.

The Registrar's Office will continue to process deferment requests to lending agencies that do not participate in the Clearinghouse, however.

# **UNIVERSITY POLICIES AND PROCEDURES**

## **NON-DISCRIMINATION**

The Western University of Health Sciences, in compliance with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and Sections 102 and 302 of the Americans With Disabilities Act of 1990, does not discriminate on the basis of gender, race, color, national origin, religion, handicap or sexual orientation in any of its policies, procedures, or practices. In accordance with sex discrimination laws, the University will not tolerate acts of sexual harassment. In compliance with the Age Discrimination in Employment Act of 1967, Section 402 of the Vietnam Era Veterans Readjustment Act of 1974, and Section 12940 of the State of California Government Code, the University does not discriminate against any employees or applicants for employment on the basis of age, ethnic origin, marital status, sexual orientation, or because of their status as disabled veterans or veterans of the Vietnam Era, or because of medical condition (as defined in Section 12926 of the California Government Code); nor does the University discriminate on the basis of citizenship, within the limits imposed by law. This non-discrimination policy covers admission, access, and service in the University's programs and activities, and application for and treatment in University employment.

### **Discrimination Complaint Procedure**

Any student believing that he/she has been discriminated against in violation of the above policy of non-discrimination may file a complaint with the Vice President for Enrollment Management and University Student Affairs or her designee. Complaint forms may be obtained from the University Student Affairs office. Retaliation against a person who reports, complains about, or participates in the investigation of alleged discrimination is prohibited. A student who believes that he/she is the victim of sexual harassment should follow the procedures specified in Western University's Sexual Harassment Policy (See below).

All complaints of discrimination shall be investigated promptly and resolved equitably. The Vice President for Enrollment Management and University Student Affairs will refer the matter to the appropriate Academic Dean, the Provost/COO, or to Treasurer/Chief Financial Officer, (the "responsible official"), depending upon the nature of the discrimination that is believed to have occurred. The responsible official will investigate the complaint, and make a decision with regard thereto. The responsible official may appoint an *ad hoc* committee to conduct a hearing, and to make recommendations concerning any corrective action to be taken. The responsible official, taking into consideration the recommendations of the ad hoc committee (if applicable), will decide, in writing, what action is appropriate under the circumstances.

If a student is dissatisfied with the decision of the responsible official, he/she may appeal the decision to the President. The appeal shall be made, in writing, within seven working days of the written decision of the responsible official, and shall state any reasons why the person filing the appeal believes that the decision of the responsible official is incorrect. The President may affirm or reverse the decision, modify the action to be taken, or remand the matter for further proceedings. For purposes of action to be taken by Western University, the decision of the President shall be final. Any person who believes that he/she has been the victim of discrimination is, however, entitled to file a complaint with an applicable state or federal agency at any time during Western University's proceedings.

## **UNIVERSITY FACILITIES, RESOURCES, AND SERVICES FOR STUDENTS WITH DISABILITIES**

### **General Policy:**

The University endeavors to provide a welcoming and supportive community environment for students with disabilities.

Western University is committed to the fundamental principles of non-discrimination and accommodation in all of its academic programs as set forth in the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. These laws establish that students with disabilities may not, on the basis of their disabilities, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any program or activity at Western University.

In that spirit, the University acknowledges its obligations to make reasonable adjustments and accommodations to provide students with disabilities access to its programs in the most integrated setting possible.

1. Programs and Facilities:

a. While the University cannot provide a totally barrier-free environment, it does provide students with disabilities access to its programs and activities. Thus, while not every academic and nonacademic building is fully accessible, sufficient access exists to allow students with disabilities the equal opportunity to participate in the academic and social life of the University.

b. Although the University endeavors to make its programs accessible to individuals with disabilities, it recognizes that some disabilities may preclude an individual from successfully completing a given academic program. To provide guidance to individuals with disabilities, the University provides a description of what it considers to be the Minimum Technical Standards for Admission and Matriculation to each of its programs. Because it is not possible to address every possible circumstance, these Minimum Technical Standards should be considered as guidelines. A student with a documented disability who believes that a reasonable accommodation would permit him/her to meet the minimum technical standards and complete the program should contact the Accommodations and Resource Center (AARC) of the Harris Family Center for Disability and Health Policy as soon after admission as possible. AARC serves to coordinate disability accommodations and services. If you have questions or would like to schedule an appointment with AARC, please phone at (909) 469-5541. The University will determine whether it is appropriate to modify its Minimum Technical Standards.

c. As soon after admission to the University as possible, students with disabilities should contact the Learning Enhancement and Academic Development Office, which serves to coordinate disability services and to discuss any reasonable accommodation that may be required. Each case is dealt with on an individual basis.

d. Since the University is prohibited by law from making pre-admission inquiries regarding disability, the University relies on the voluntary provision of whatever information it needs to make reasonable accommodation for students with disabilities.

2. Resources, Services, and Auxiliary Aids:

The University provides certain services and reasonable accommodations, the nature and extent of which are based on the Center for Disability Issues and the Health Profession's assessment of individual need to achieve academic success. Those services and accommodations, provided in consultation with the student, are intended to allow qualified students with disabilities to pursue their educational careers in the most equitable and independent fashion possible.

3. Accessibility and Construction:

The Western University of Health Sciences, in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, and in compliance with the Americans with Disabilities Act of 1990, does not discriminate on the basis of disability in any of its policies, procedures or practices. It is the policy of the University to provide qualified persons with disabilities with access to its programs in the most integrated setting possible. The following statement on construction, renovation, and alteration flows from the spirit of that non-discrimination principle.

a. Construction of New Buildings and Facilities:

1. New construction will comply with the guidelines and regulations set forth in Section 504, Title 234, and relevant state and local building codes. The primary standards for such construction are derived from the Uniform Federal Accessibility Standards (UFAS, 1984), the Amended Architectural Barriers Act (1984), and the Americans With Disabilities Act of 1990.

2. The University endeavors to employ the most barrier-free design and materials in new construction to provide superior access to the functions and programs that take place in those new facilities. The University's goal is to ensure full accessibility and usability of its new buildings.

b. Renovation and Alteration of Existing Buildings and Facilities:

1. The renovation and alteration of existing facilities will comply with Section 504 and applicable federal regulations, as well as relevant state and local codes, to enhance program accessibility. The University recognizes that Section 504 does not require structural changes to existing facilities where other methods are effective in achieving overall accessibility to the programs and services of the University.

2. Any renovation or alteration will, to the maximum extent feasible, be pursued in a way that makes the renovated or altered portion of the building accessible to a student with a disability. However, the design of many existing facilities makes it impractical or prohibitively expensive to renovate or alter them in such a way as to make them barrier-free.

## **SEXUAL HARASSMENT**

It is the policy of Western University that all persons, regardless of their gender, should enjoy freedom from discrimination of any kind. Sexual harassment is a form of sexual discrimination, and Western University will not tolerate such conduct by any member of the University community.

For purposes of this policy, "sexual harassment" means unwelcome sexual advances, requests for sexual favors, and other verbal, visual, or physical conduct of a sexual nature, made by someone from or in the educational setting, under any of the following circumstances:

1. Submission to the conduct is explicitly or implicitly made a term or a condition of an individual's employment, academic status, or progress.
2. Submission to, or rejection of, the conduct by the individual is used as a basis of employment or academic decisions affecting the individual.
3. The conduct has the purpose or effect of having a negative impact upon the individual's work or academic performance, or of creating an intimidating, hostile, or offensive work or educational environment.
4. Submission to, or rejection of, the conduct by the individual is used as the basis for any decision affecting the individual regarding benefits and services, honors, programs, or activities available at or through Western University.
5. Creating, transmitting, uploading, or downloading obscene materials not intended for academic use is strictly prohibited.

Examples of sexual harassment include, but are not limited to: pressure, subtle or overt, for sexual favors, accompanied by implied or overt threats concerning one's job, grades, or letters of recommendation; inappropriate display of sexually suggestive objects or pictures; unnecessary touching, pinching, patting or the constant brushing against another's body; use of sexually abusive language (including remarks about a person's clothing, body or bodily movement, or sexual activities).

Any student believing that he/she has experienced sexual harassment should resist such harassment and may file a complaint with the Vice President for Enrollment Management and University Student Affairs, or her designee. Complaint forms may be obtained from the University Student Affairs' office.

To protect all parties involved, Western University handles sexual harassment complaints as confidentially as the circumstances permit. If the student believes that any official specified in these procedures was involved in any act of sexual harassment, he/she may file a complaint with another appropriate official specified in these procedures. Retaliation against a person who reports, complains about, or participates in the investigations of sexual harassment is prohibited.

All complaints of sexual harassment shall be investigated promptly and resolved equitably. Charges of sexual harassment may be handled through formal procedures, or, with the consent of both the complaining party and the alleged harasser, through informal procedures. Informal resolution of a charge of sexual harassment may take any of the following forms:

- a. A meeting among the Vice President for Enrollment Management and University Student Affairs, or her designee, the complainant, and the alleged harasser;
- b. A meeting among the Vice President for Enrollment Management and University Student Affairs, or her designee, and the alleged harasser; or
- c. A recommendation of professional counseling for either principal.

If a formal grievance procedure is requested by either the complainant or the alleged harasser, the Vice President for Enrollment Management and University Student Affairs will refer the matter to an appropriate official of Western University, as follows:

a. In the case of an offending student, the complaint will be directed to the appropriate Academic Dean. The responsible official will investigate the complaint, and may refer the matter to the Student Conduct Committee. In this event, the hearing and appeal procedures applicable to the Student Conduct Committee shall apply.

b. In all other cases regarding administrators, faculty or staff, the complaint will be made to the Provost/COO, the Treasurer/Chief Financial Officer, or the Director of Human Resources. The responsible

official may appoint an ad hoc committee to conduct a hearing, and to make recommendations concerning the appropriate disciplinary action to be taken if the alleged harasser is found to have violated Western University's policy against sexual harassment. Both the complainant and the alleged harasser will be given notice of, and an opportunity to participate in, any hearing by the ad hoc committee.

Except for matters referred to the Student Conduct Committee, the responsible official, taking into consideration the recommendations of the ad hoc committee (if applicable), will decide, in writing, what action is appropriate under the circumstances. If either the complainant or the alleged harasser is dissatisfied with the decision of the responsible official, he/she may appeal the decision to the President. The appeal shall be made, in writing, within seven working days of the written decision of the responsible official, and shall state any reasons why the person filing the appeal believes that the decision of the responsible official is incorrect. The President may affirm or reverse the decision, modify the action to be taken, or remand the matter for further proceedings. For purposes of action to be taken by Western University, the decision of the President shall be final. Any person who believes that he/she has been the victim of sexual harassment at Western University is, however, entitled to file a complaint with an applicable state or federal agency at any time during Western University's proceedings.

## **DRUG-FREE ENVIRONMENT**

Western University is committed to maintaining a drug-free environment in compliance with applicable laws. The unlawful possession, use, distribution, sale or manufacture of controlled substances is prohibited on the University's campuses or any of its medical facilities. Violation of this policy may result in the appropriate disciplinary action up to and including termination or dismissal.

The illegal use of controlled substances can injure the health of fellow students seriously; adversely impair the performance of their responsibilities; and endanger the safety and well being of other students and members of the general public. Therefore, the University urges students engaged in the illegal use of controlled substances to seek professional advice and treatment. Any student who has a drug problem is invited to contact the Student Affairs Office anonymously at (909) 469-5341, to obtain information about available assistance. The Western University counseling center, (contact the Student Affairs Office for name and phone number), offers assistance to students. Students are encouraged to check with their private insurance carrier for available programs. For those with Western University insurance, the name and phone number for the insurance carrier is Renaissance, (800) 537-1777.

No one is immune from state or federal laws regarding the use of drugs. Anyone using drugs runs the risk of legal action and court conviction. Examples of local and state laws are listed below:

- Unlawful possession of a narcotic drug is punishable by imprisonment in the state prison.
- The purchase, possession or consumption of any alcoholic beverage (including beer and wine) by any person under the age of 21 is prohibited.
- It is not permissible to provide alcohol to a person under the age of 21.
- Selling, either directly or indirectly, any alcoholic beverage to anyone, except under the authority of the California alcoholic beverage control license, is prohibited.
- It is a felony to induce another person to take various drugs and "intoxicating agents" with the intent of enabling oneself or the drugged person to commit a felony. The person who induced the other may be a principal in any crime committed.
- It is a misdemeanor for any person found to be under the influence of an intoxicating liquor or drug in a public place and unable to care for his/her own safety or disorderly conduct.

As a condition of employment, an employee of the University, including any work-study students, shall notify his/her supervisor if he/she is convicted of a criminal drug offense occurring in the workplace within five days of the conviction. Failure to report a conviction may be grounds for dismissal. In the event that any such conviction involves an employee working on a federal grant or contract, the University is obligated to notify the granting or contracting federal agency within ten days of receiving notice of the conviction.

Students are required to notify the Vice President for Enrollment Management and University Student Affairs within five days of a conviction if they are convicted of a criminal alcohol or drug offense occurring on the campus. For the purpose of this policy, "campus" includes all experiential sites. Remedial actions and/or sanctions may be applied, up to and including dismissal.

Students who are Pell Grant recipients must report convictions for criminal drug violations, occurring on or off campus, in writing to the Director of Grants and Contracts Service at the U.S. Department of Education within 10 calendar days of such conviction.

This statement is being set in accordance with the Drug-Free Workplace Act of 1988 (Public Law 100-690) and the Drug-Free Schools and Communities Act Amendments of 1989 (Public Law Nos. 101-226, 103 stat 1928 - enacted December 12, 1989). The University will continue its efforts to maintain a drug-free environment by adhering to the above policy and providing drug awareness programs.

### **URINE DRUG SCREEN POLICY**

For all Western University students, submitting a negative urine drug screen may be a requirement prior to participation in certain clinical education/rotation sites. Failure of the drug test, or refusal to cooperate with any aspect of this policy, or any health system policy on substance abuse may result in an administrative or medical suspension for one year.

All Western University students must consent to a urine drug screen for any sentinel event. Sentinel events include, but are not limited to: poor academic performance, unprofessional conduct, behaviors that may endanger/intimidate classmates, instructors, staff or any other University employees, a pattern of abnormal or erratic behavior consistent with alcohol or drug abuse, possession of drug paraphernalia, direct observation of drug or alcohol use or possession, or demonstration of physical symptoms of the influence of a drug or alcohol, information of drug use by reliable or credible sources, or information of drug use that is independently corroborated. Refusal to comply with a urine drug screen request from authorized university officials, failing to provide a sample suitable for testing, or attempting to alter or tamper with the specimen will be interpreted as a positive drug screen and may result in an administrative or medical suspension for one year.

The student shall be responsible for paying any and all associated costs of urine drug screening, including necessary retesting for any reason. Lab sites that are NIDA, SAMHA, or HHS certified are the only laboratory sites acceptable.

Test results will be confidential with disclosure of results provided only to the University-designated Medical Review Officer (MRO). Because of the mandate to comply with health system policies, disciplinary actions against students will be imposed for a student with a positive drug screen. Reports are the property of the University and will not be provided to students. They will be kept in a confidential file separate from the student's academic file.

### **STUDENT HEALTH AND SAFETY**

Matriculants into Western University's health professions programs must submit evidence that they are in good health and should, therefore, be able to withstand the physical and mental pressures commonly placed upon professional students. The nature of health professions education necessarily brings students in close contact with a variety of illnesses and diseases, and the following policy has been established as a protective mechanism for students and patients alike. Students must maintain a health insurance policy for the duration of their education at Western University. Proof of such coverage is required at the time of each registration. A student health insurance is available from an outside insurer. For more information about this policy, please contact the Office of Student Affairs.

### **DRESS CODE/IDENTIFICATION**

Students are required to dress in a professional manner at all times.

During classroom lectures, students are required to wear clothing that is in good repair (no patches). Footwear is required at all times. Dress for skills labs should not be worn outside the laboratory area. Tank tops, halters, scrubsuits and headgear (hats/helmets) are not to be worn in the classrooms. Shorts may be worn, but no more than 3" above the knee. Hair, beards, and mustaches must be clean, net, trimmed at all times. Students are expected to conform to the commonly acceptable social standards of personal hygiene.

White clinic jackets must be worn at Honors Day, Awareness Conferences, Health Fairs, and in all clinical settings.

Name pins must be worn at all times on rotations. University identification badges are also provided and must be worn at all times while on campus.

Students must dress professionally throughout the duration of every clinical rotation/assignment unless the preceptor of that rotation/assignment directs otherwise.

Exceptions to the dress code may be requested from the appropriate Academic Dean.

### **SMOKING**

As a graduate university of medical health sciences committed to training and educating health care professionals, we have a responsibility to be a role model for proper health maintenance and prevention. We are concerned about the health and well-being of all individuals who learn and work here, as well as those who visit. Out of respect and loyalty to the University, its mission and its constituents, smoking is not permitted on campus (except in designated areas) or inside University vehicles. A designated smoking area has been posted to assist in insuring compliance with this policy.

### **REQUIRED IMMUNIZATIONS**

Since students will have some exposure to patients during the first year, NO STUDENTS WILL BE ALLOWED TO MATRICULATE UNTIL THEY HAVE SUPPLIED PROOF THAT THEY ARE CURRENT ON THE FOLLOWING IMMUNIZATIONS AND HEALTH SCREENINGS: MMR (measles, mumps, rubella) (proof of immunization or serologic titers showing immunity), Polio, Tetanus/Diphtheria/Pertussis (within 10 years), Hepatitis B (proof of completion of 3 shot series or serologic titers showing immunity), P.P.D. (Purified Protein Derivative) (within the last six months) or chest x-ray (within the last year), Varicella (chicken pox) - proof of completion of the age appropriate immunization series or positive serologic titers. Students entering the DVM program must also show proof of completion of the primary rabies vaccination series. These immunizations/tests may require updating on a more frequent basis prior to beginning clinical training if specified in the affiliation agreement with the clinical training site. POSITIVE PPD OR CHEST X-RAY MUST BE FOLLOWED UP WITH AN APPROPRIATE HEALTH CARE PROVIDER.

Such proof is not required for an individual who submits an affidavit or certificate signed by a physician, duly registered and licensed to practice in the United States, in which it is stated that, in the physician's opinion, the immunization required would be injurious to the health and well-being of the student or any member of his or her family or household. Unless a lifelong condition is specified, the affidavit or certificate is valid for only one year from the date signed by the physician and must be renewed each year for the exclusion to remain in effect.

In order to minimize the risk of an influenza outbreak on campus or in affiliated clinical facilities, all students (both in clinical and non-clinical programs) must receive the annual influenza vaccination (except when medically contraindicated) while matriculating at Western University of Health Sciences. Proof of your receipt of the annual influenza vaccination (or of your physician's contraindication) must be submitted to your academic program administration by December 31<sup>st</sup> of each calendar year.

No student will be permitted to register or attend classes without having proof of completing required immunizations.

### **FOOD IN LECTURE HALLS, LABORATORIES AND LIBRARY**

Food is not allowed in the lecture halls or laboratories. Drinks in closed containers are permitted. Occasionally, noon-hour lectures or seminars are scheduled in lecture halls. At these times, students are permitted to bring their lunches; however, care must be taken to dispose of all refuse in trash containers after the lecture. The student lounges may be used for eating.

Food is allowed on the first floor of the library only.

### **VIDEOTAPING, AUDIOTAPING, STILL PHOTOGRAPHY AND DIGITIZED NOTE TAKING IN LABORATORIES AND LECTURE HALLS**

Videotaping, audiotaping, still photography and digitized note taking are not permitted in University laboratories and lecture halls without the express permission of the involved instructor. If a student wishes

to utilize one of these recording methods, each student must request permission of the instructor prior to or at the first day of a given lecture series or laboratory class. The Harris Family Center for Disability and Health Policy will obtain permission from the instructor on behalf of any students requiring such approved accommodations prior to the start of a given semester or course, or as soon as possible if a student's disability arises or is declared after the start of a semester or course.

Such materials are only for the personal use of the individual student, and any further duplication, dissemination or retransmission of these materials in any format is prohibited without the expressed written permission of the instructor and the Office of Academic Affairs.

## **ELECTRONIC COMMUNICATIONS**

Every student of Western University is provided access to a westernu.edu e-mail address. Most official communications to students will be sent to this e-mail address. It is therefore expected that each student will check their e-mail on a regular basis to keep informed. Computer terminals are available in the computer lab on the second floor of the Health Sciences Center for student use.

## **NETWORK ACCEPTABLE USE POLICY**

Western University Computing Resources (WUCR) are intended to support and enhance the mission of the University. This Acceptable Use Policy (AUP) states the rules regarding the use of these technologies. This AUP complements and supplements, rather than replaces, other policies concerning appropriate conduct of employees and students of Western University. WUCR includes any computer, computer-based network and supporting infrastructure, computer peripheral, operating system, software or any combination thereof, owned by Western University or under the custody or control of Western University. This policy also applies to any of the above mentioned items which fall under company and or personal ownership, used in conjunction with any portions of the Western University Networked infrastructure. In this regard, use of Western University Computing Resources is granted based on the acceptance of the following rules.

Users shall:

1. be responsible for using these computing resources in an effective, ethical and lawful manner.
2. use only those facilities for which they have authorization, whether these facilities are at Western University or at any other location accessible through a network.
3. take all reasonable steps to protect the integrity and privacy of the WUCR including software and data. In particular, users shall not share with others the access codes, account numbers, passwords or other user privileges that have been assigned to them.
4. respect the copyrights of the owners of all software and data they use.
5. respect the privacy of others. This includes, but is not limited to, respecting the confidentiality of email, files, data and transmissions.
6. refrain from using WUCR for any unauthorized or illegal purposes. Such purposes might include destruction or alteration of data owned by others, interference with legitimate access to computing resources or harassment of users of such resources at Western University or elsewhere, unauthorized disruption of WUCR, attempts to discover or alter passwords or to subvert security systems in WUCR or in any other computing or network facility.
7. properly identify themselves in any electronic correspondence and provide valid, traceable identification if required by applications or servers within the WUCR or in establishing connections from the WUCR.
8. be responsible for checking their individual Western University e-mail on a regular basis. Western University may send official University correspondence to employees and students using their Western University e-mail address.

The level of privacy granted users does not exceed that of reasonable expectations. System failures or design faults may compromise this privacy, and users should also recognize that authorized Western University personnel may have access to data and software stored on WUCR while performing routine operations or pursuing system problems. Users should further recognize that, as specified in the relevant policies at Western University, authorized Western University personnel have the obligation to take reasonable and appropriate steps to ensure the integrity of the Western University Computing Resources, and to ensure that these policies are observed.

Individuals are advised that improper use of University resources, as described in this policy, may violate State

and/or Federal regulations and subject the University and the individual to legal action. The University will take appropriate, necessary steps to insure its ongoing compliance with all State and Federal laws and protect the University from any legal actions.

Western University reserves the right to revise, amend, or modify its Acceptable Use Policy at any time and in any manner. Notice of any revision, amendment, or modification will be posted.

Please note: The on-line version of this policy may be updated from time to time. Use the on-line version as the authoritative and current source.

Questions concerning this policy should be directed to the Technical Support Desk. Please call (909) 469-5342, or email [techsupport@westernu.edu](mailto:techsupport@westernu.edu).

# **GENERAL ACADEMIC POLICIES AND PROCEDURES**

The University endeavors to provide an environment in which students may develop into effective health care providers. Freedom of inquiry and expression are essential to a learning environment. Students are encouraged to develop a capacity for critical judgment and engage in an independent search for truth. The responsibility for securing an environment conducive to freedom of inquiry and learning is shared by the students, faculty and administration. As a part of that shared responsibility, the University has adopted Standards of Academic and Professional Conduct.

## **Educational Philosophy**

The educational programs of Western University are based on the belief that schooling not be allowed to get in the way of education and that the content and substance of the curriculum, as well as the instructional and planning processes used to carry it out, reflect a humanistic approach. In short, the University strives to provide people-oriented programs so that its students become people-centered practitioners.

### **1. Standards of Academic and Professional Conduct**

Complete confidence in the honor and integrity of the health professions student and health care professional is essential. Such confidence depends entirely on the exemplary behavior of the individual health care provider in his or her relations with patients, faculty and colleagues. Strict honesty as a personal way of life should be nurtured during the period of education for professional service.

The student shall conduct all aspects of his or her life with honor and integrity. This includes accountability to oneself and to relationships with fellow students, future colleagues, faculty, and patients who come under the student's care or contribute to his or her training and growth, and members of the general public. This applies to personal conduct that reflects on the student's honesty and integrity in both academic and non-academic settings, whether or not involving a University sponsored activity.

Upon accepting admission to the University, each student subscribes to and pledges complete observance to the Standards of Academic and Professional Conduct as outlined in this Catalog for each academic program. A violation of these standards is an abuse of the trust placed in every student and could lead to suspension or dismissal.

### **2. Orientation/Registration**

Attendance at Orientation is mandatory for all incoming first-year students for the DO, PharmD, DPT, DVM, MSPA, MSN-E, MSN/FNP DNP, OD, DPM and DMD programs.

- a. Students will be required to register in person on the registration day specified in the University Calendar or as otherwise directed by the Registrar. Assessed tuition and fees and all prior debts must be paid in full on or before registration day each academic year.
- b. Matriculation is subject to satisfactory completion of all academic requirements and payment of all outstanding debts to the University.
- c. The receipt of final transcripts from undergraduate colleges and a physical examination with documentation of required immunizations are additional requirements for incoming students.
- d. All students must show proof of current health insurance coverage at the time of registration. This coverage must be maintained in effect throughout the period of matriculation at Western University. If there is no proof of current coverage, a health insurance policy provided by the University from a third party insurer is available.

### **3. Withdrawal from University/Program**

Matriculation at the University is a privilege granted in consideration of specified levels of performance and of maintaining the established standards of scholarship and personal and professional conduct. The University reserves the right to require withdrawal at any time it deems necessary to safeguard its standards of scholarship, conduct and orderly operation. The student concedes this right by act of matriculation. See Program Specific sections of this Catalog.

Application for voluntary withdrawal from the University/Program must be made in writing to the appropriate Academic Dean. Except in rare and special circumstances, the application will be accompanied by a personal interview. Every effort should be made by the student to assure that no misunderstandings or errors occur in the withdrawal process. Students who leave the University/Program without notifying the

Office of the Dean and the Office of the Registrar, and without completing the established withdrawal procedures within 30 days, will be terminated automatically from the University.

In addition, students must report to the Registrar's Office to sign the withdrawal form to officially withdraw from the University/Program. Students who do not complete this application for voluntary withdrawal will not be considered for re-admission at a later date.

Students who withdraw "in good academic standing" are not assured of re-admission unless it is a part of the final decision and/or agreement made between the appropriate Academic Dean and the withdrawing student. This final decision and/or agreement must be in writing so that it is clear to all parties involved. Students who are granted re-admission following withdrawal in good academic standing usually re-enter at the beginning of the next academic year and register for all courses scheduled during the academic year of their withdrawal, including those previously completed and passed, unless so stipulated.

Students who withdraw "not in good academic standing" must request re-admission through the University's Admissions Application process unless otherwise stipulated.

#### **4. Leave of Absence**

A student may request a Leave of Absence with the occurrence of a medical problem, serious personal problems, or health related issues. Students must be in good academic standing to be eligible to apply for a Leave of Absence.

Students requesting a Leave of Absence must apply in writing to the appropriate Academic Dean or his designee. In the event of a medical problem, the request must be accompanied by a letter from a physician describing the nature of the disability for which the leave is requested and the estimated length of time needed for recovery.

After consultation with the student, the respective Academic Dean will decide whether or not the leave is to be granted and the conditions under which the student may return to school. A student requesting a leave of absence during or at the end of the academic term must go through the following procedure:

- a. In writing, request a Leave of Absence from the appropriate Academic Dean.
- b. Obtain a Leave of Absence form from the Registrar. After completing the student's portion, meet personally with the appropriate Academic Dean or designee to discuss the reason for the leave. After consulting with the appropriate Academic Dean/designee, the Dean/designee will sign the Leave of Absence form indicating his/her approval to proceed with the remainder of the exit process.
- c. Take the form to the faculty advisor, who will provide counsel and sign the form.
- d. Take the signed Leave of Absence form to the other listed administrative officials for their signatures.
- e. Return the signed form to the Registrar, who will sign and date the Leave of Absence form.

Provided the leave of absence is approved, the official date of the leave of absence will be the original date of receipt of the student's request and any tuition charged will be in accordance with the institution's refund policy.

Leaves of absence requested for a full academic year will be for one year only with expected reinstatement at registration for the following year. Leaves of absence requested after registration for any given academic year will be granted for a period not to exceed the number of months remaining until the registration date for the next academic year. During the leave of absence, students are entitled to library privileges with the exception of checking out books, use of the student lounges, and participation in student clubs. It is required that the student maintains a health insurance plan throughout the period of the leave.

A student who is granted a leave of absence for one year or more, must submit a letter of intent to re-enroll to the appropriate Academic Dean, at least three months prior to the requested date of return. The letter must also be accompanied by a \$500 tuition deposit. It is the student's responsibility to keep the Registrar informed of any change of address while on a leave of absence.

If the student has not paid 100% of the tuition during the year in which the leave is granted, the balance of the tuition plus any increase of tuition or fees will be payable in the next year of attendance. All appropriate tuition and mandatory fees are due prior to graduation.

Leaves of absence will be limited to a maximum of 2 years.

The term and conditions of any leave will be determined by the appropriate Academic Dean. In addition, changes in the curriculum or in other university or academic program policies may occur which could have an impact on academic requirements affecting a student's matriculation upon return from a Leave of Absence. Every reasonable attempt will be made to minimize the impact of such changes, and if known at the time that a leave is granted, the student will be informed of these revised requirements as part

of the terms and conditions contained in the letter granting a leave of absence. Should these changes occur after a leave has been granted, the student on leave will be informed of these changes and how they may affect the student's future matriculation in writing from the office of the appropriate academic dean.

#### **5. Academic Advisement**

Students will be assigned a faculty advisor upon matriculation. Advisement by a faculty advisor should be viewed by the student as a part of the academic process. If either the student or faculty member does not find the relationship helpful, either is free to seek a change. This request should be made to the appropriate Academic Dean or designee. It is the student's responsibility to meet periodically with his/her advisor. A student on probation must contact his/her faculty advisor at least once a month.

#### **6. Attendance and Absences**

Attendance is required at all scheduled instructional periods. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during the periods missed.

**7. Standards of Professional Conduct: Reporting Alleged Violations** - Upon witnessing a possible professional violation, any member of the academic community should report the incident to the respective Academic Dean or other appropriate University official. If the conduct involves a particular course of program, the classroom instructor or the clinical training program supervisor should be advised. Depending on the nature of the conduct, an individual witnessing a possible violation may choose to talk to the transgressor on an individual basis to attempt to resolve the problem before reporting it to University officials. The individual receiving the report will dispose of the violation in an appropriate manner. If there appears to be adequate cause, a report should be submitted in writing to the appropriate Academic Dean. The report should include the name and signature of the individual making the report.

In most circumstances, the Academic Dean will meet with the student to discuss the nature of the possible violations that have been reported and the actions, if any, that the Dean intends to take. The Dean may resolve the matter without convening a hearing before the college's Student Performance Committee, unless the student requests that a hearing be convened. In some circumstances, the Academic Dean may refer the matter directly to the Student Performance Committee for hearing.

When a matter is referred to the college's Student Performance Committee, the Academic Dean shall prepare appropriate written charges based on all information reported or known. Any appropriate representative of the University acting with the consent of the Dean may prepare the written charges. The Chair of the Student Performance Committee will notify the student of the time and date of the hearing and shall provide the student with a copy of the written charges.

#### **8. Student Performance Committee**

**Purpose** - The College's Student Performance Committee reviews the overall academic progress of each student enrolled in the college and considers violations of the Standards of Professional Conduct when requested by the respective Academic Dean. These standards and the operation of the college's Student Performance Committee are contained in the appropriate **Program Specific** section of this Catalog.

**Status of Student Pending Action** - Pending a determination by the appropriate Academic Dean ,the status of the student will not be altered except for reasons of his/her physical and emotional well being or for reasons relating to the safety of other students and University personnel. Once the Academic Dean has rendered a decision, the status of the student will not be altered pending determination of a timely appeal by the student, except that the Provost/Chief Operating Officer shall have the discretion and authority to suspend the student or take other action at any time during the appeal process, if consistent with the decision of the Academic Dean. The University further reserves the right to withhold the award of any degree at any time disciplinary charges are pending against a student.

Right of Appeal - See Student Appeal Process

## **9. Information for Students About Hearings Involving Alleged Violations of the Standards of Professional Conduct**

Western University of Health Sciences expects all students to adhere to its standards of professional conduct as published in the University Catalog. Any allegation that a student has violated these standards may be referred to a student conduct/performance committee for investigation.

Because a violation may have serious consequences (which may include dismissal from the University), the University has implemented procedures intended to insure that the student is provided fair notice of any charges, and is afforded a reasonable opportunity to present evidence on his or her behalf. In these proceedings, the student has the following rights and responsibilities:

- The student must be notified in writing of the specific charges and the time and date of the hearing where the charges will be considered.
- The written charges must notify the student if dismissal from the University may be considered by the Student Performance Committee.
- If dismissal is considered, the student may request permission for a mentor to appear at the meeting to assist the student. It is the student's responsibility to make the request to the Chair of the Committee in writing, and to identify the proposed mentor. The Chair will determine whether grant the student's request. However, if the allegations involve charges that may result in criminal charges being brought against the student, the Chair shall authorize a mentor to be present if a proper request has been made. The role of the mentor is to advise the student, and under normal circumstances a mentor is not permitted to ask questions of witnesses or to otherwise directly participate in the hearing.
- Any member of the Committee who has a known conflict of interest shall not participate in the proceeding. The student has the responsibility of notifying the Committee if the student believes that any member has a conflict, and the reason for the conflict.
- Hearings will be closed to all individuals not directly involved. The Committee may exclude witnesses except during the time they are testifying. It is the responsibility of the Committee, the student and other participants to not disclose information about the proceedings except to individuals with a need to know, or as is necessary for the orderly conduct of the hearing.
- The student has the right to ask relevant questions of witnesses, and to present witnesses in his or her own behalf. The student's right to ask questions and present witnesses is subject to the reasonable control of the Committee, which has discretion to limit testimony that is cumulative or not directly relevant to the charges.
- The student has the responsibility to testify at the hearing and to answer any questions asked by the Committee.
- The Committee may consider affidavits or other written evidence in the proceeding. The student shall be provided with copies of any written evidence that the Committee intends to use at least two days in advance of the hearing, but the student may waive this requirement. The student is also entitled to present affidavits or written evidence provided that the student has provided the Chair with copies at least two days in advance of the hearing.
- The student has the responsibility to present all evidence that he or she deems relevant at the scheduled hearing unless such evidence cannot be presented at that time due to circumstances beyond the student's control.
- Following the hearing, the Committee will determine whether, based upon the evidence presented, it is more likely than not that the alleged violation of professional conduct has occurred. The student will be informed of the Committee's decision in writing.
- If a violation has been found to have occurred, the Committee will convene a second hearing for the purpose of considering recommended sanctions. The student has the right to attend this hearing and to present evidence of any mitigating circumstances that the student believes should be considered. The Committee may consider any prior record of discipline and any other information that is pertinent to recommending sanctions.
- The student has the responsibility to inform the Committee as soon as the circumstances permit should there be any deviation from the specified procedures, so as to afford the Committee an opportunity to take appropriate corrective action. The student has the right to waive any

- procedural requirement, and no deviation shall be grounds for objection unless the student has timely called the error to the attention of the Committee.
- The Committee makes its recommendations to the appropriate Dean. The Dean has the authority to accept the recommendations of the Committee, or may make such other decision as he or she deems appropriate under the circumstances.
  - The student has the right to appeal any decision by the Dean following the procedures specified in the University Catalog.

Additional information about the University's Standards of Professional Conduct and the hearing and appeal process is contained elsewhere in the University's Catalog. Students may also contact Dr. Beverly Guidry, Vice President for Student Affairs, at 909-469-5341 for additional information regarding conduct hearings.

## **10. Promotion**

Promotion is defined as progression from one academic year or program phase to the next.

- a. A student will be recommended to the appropriate Academic Dean for promotion by the respective Student Performance Committee.
- b. A student may not be recommended for progression from one academic year to the next with any outstanding grades of "I", "U", "M", or "NCr" on his/her academic record or with a yearly grade point average or cumulative percentage score of less than the minimum required for promotion (see appropriate **Program Specific** section of this catalogue).
- c. When considering a student for promotion, his/her professional, ethical, and personal conduct may also be taken into consideration (as described under **Probation a-3**).
- d. A student will be promoted provided that all academic, legal and financial requirements of the University, as stated elsewhere in the *University Catalogue*, have been satisfied.

## **11. Probation**

- a. Probation is defined as a period of time, specified by the appropriate Academic Dean, during which the student's progress will be closely monitored by the respective Student Performance Committee and the respective Dean. To monitor a student on probation closely during clinical training, the individual program reserves the right to assign his/her remaining clinical rotations/assignments. A student will be placed on probation for any of the following reasons:

1. Inadequate academic progress as determined by the specific Student Performance Committee (see appropriate **Program Specific** section of this Catalog).
2. When directed to repeat a year for academic reasons.
3. Seriously deficient ethical, professional, or personal conduct.

Professional and personal conduct includes: attendance, cooperation with instructors, interest shown in assigned work, attitude toward fellow students and associates and toward personnel of hospitals, approach to and interaction with patients, as well as personal appearance appropriate to the circumstances.

The terms of probation for ethical, professional, or personal conduct will be specified at the time the student is placed on probation.

- b. When a student is placed on probation, he/she will be notified in writing by the appropriate Academic Dean and the reasons will be stated. Notification must be sent by Certified Mail or hand-delivered and acknowledged by signatures of the student and the appropriate Academic Dean or his designee. Copies of the letter will be placed in the student's permanent file and distributed to the Chairman of the Student Performance Committee and the student's Faculty Advisor. The Student Performance Committee will consider when the terms of the academic probation have been satisfied and recommend to the appropriate Academic Dean that probation can be rescinded.
- c. A student on probation may not serve as an officer of any official University or College club or organization and should not engage in time-consuming extracurricular activities. No student on probation will be permitted to enroll in an elective course.
- d. On-campus students on probation must meet with their faculty advisor at least once each month. Off-campus students on probation must contact their faculty advisor once a month. It is the student's responsibility to contact the faculty advisor to arrange for these meetings.

- e. A student will remain on probation until the program specific minimal acceptable academic standards are met again.
- f. A student will be removed from probation when the specified terms of probation for ethical, professional, or personal conduct are met. The student will be notified in writing.

## **12. Academic Suspension**

Students who are deemed unable to continue in the curriculum due to inadequate performance and are required to repeat a given academic year or portion thereof will be placed on academic suspension through such time as they can resume their studies by starting the courses the student is required to repeat. Throughout the time the student is academic suspended, he or she is also on academic probation, and remains on academic probation until all coursework has been satisfactorily remediated.

## **13. Remediation**

Every effort will be made to provide each student ample opportunity to demonstrate competency in each area of the academic program. Please see appropriate **Program Specific** section.

## **14. Remediation: Financial Aid Policy**

Students who are required to repeat coursework due to an unsuccessful prior attempt must contact a Financial Aid officer in regard to financial aid eligibility.

Students who have been recommended by the Student Performance Committee and appropriate Academic Dean to repeat the year due to unsatisfactory progress (GPA) or in cases where there is a satisfactory GPA, but deficiencies are noted that impede promotion, the following criteria must be met to be eligible for financial aid:

- a. Full time attendance recorded.
- b. Placed on one-year probation.
- c. Must be tested and graded.
- d. Must be monitored closely.

It is the student's choice to audit course work to strengthen skills as long as he/she has met satisfactory progress such as GPA and is fully aware that he/she will not be eligible to apply for any financial aid to cover these audit costs. The student will be financially responsible for himself/herself until promoted by the appropriate Academic Dean.

If, at the end of the academic year, the student is still considered to be making unsatisfactory progress and must remediate, he/she is removed from the list of Title IV and Title VII financial aid recipients.

Summer remediation is not covered by financial aid and cannot be considered an expense item on the next year's budget.

Appropriate tuition and fees will be determined by the Treasurer/Chief Financial Officer.

## **15. Conduct Suspension**

A conduct suspension is a period of time when a student is barred from matriculation in an academic program as a result of violating the program's Standards of Professional Conduct. The duration of the conduct suspension will be communicated to the student at the time the suspension is imposed, either as a specified period of time or until the student has satisfactorily completed all the terms and conditions imposed to remedy the violation of the program's Standard of Professional Conduct.

## **16. Summary Suspension**

Each student is expected to govern his/her conduct with concern for other individuals and for the entire University community. Actions that threaten or endanger, in any way, the personal safety and/or well being of self or others, or that disrupt or interfere with the orderly operation of the University are cause for immediate disciplinary action.

Either the President, Provost/COO, or appropriate Academic Dean has the authority to summarily suspend a student when the student admits to guilt or when, in the opinion of the President, Provost/COO or appropriate Academic Dean, such action is appropriate to protect the health or safety of any individual, or to preserve the orderly operation of the University.

When a student is summarily suspended, the student shall be informed, in writing, of the specific charges on which such suspension is based. Such notice shall be delivered personally to the student or mailed by certified mail within forty-eight (48) hours of the imposition of the suspension. Such conduct by a student shall be considered a violation of the Standards of Professional Conduct and suspected violations will be handled by the procedures outlined under Standards of Professional Conduct section of this Catalog.

Appeal of the decision of the respective Academic Dean can be made to the Provost/COO. Any student who has been summarily suspended may also request, in writing to the appropriate Academic Dean, a hearing by the Student Performance Committee. Students who are suspended are not entitled to remain in class or on clinical rotations/assignments until a final decision has been rendered, including a final decision on any appeals.

#### **17. Dismissal**

The University may dismiss at any time it deems necessary to safeguard its standards of scholarship, conduct and orderly operation. The Student Performance Committee may recommend dismissal of a student for any reason it deems appropriate. Furthermore, conviction of a felony while a matriculant at Western University may be grounds for dismissal.

Dismissal from a program for reasons of conduct shall include dismissal from the University. If a student is concurrently enrolled in one or more other academic programs of the University, the dismissed student may petition the Academic Dean of the other academic program(s) to have his/her matriculation maintained in that program, provided that the student's conduct which resulted in his/her dismissal from the academic program does not violate the Standards of Professional and Academic Conduct of any other program the Student is concurrently enrolled.

#### **18. Student Appeal Process**

The appropriate Academic Dean shall have the authority to make decisions regarding a student's status in matters of academic suspension, student conduct, academic progression/promotion, and graduation. The decision will be based on input from appropriate sources that may include the following: individual instructors, faculty, and appropriate committees.

**a.** Within five (5) working days following written notification to the student of the action of the respective Academic Dean, the student may appeal the decision in writing to Provost/COO. The appeal request must be accompanied by a narrative explaining the basis for the appeal. The narrative should fully explain the student's situation and substantiate the reason(s) for advocating a reversal of the prior decision of the Academic Dean. The Provost/COO may grant an appeal only if a claim of (1) bias, (2) the appearance of new, material and documentable evidence that was not available at the time of the Academic Dean's decision, or (3) procedural error that unfairly affected the decision-making process is substantiated by the Provost/COO. Upon written request from the student, the Provost/COO shall review the case and, within seven (7) working days, shall issue a decision in writing to the student, which may affirm, modify, or reverse the previous action. A copy of that letter shall be sent to the Dean, and other appropriate individuals.

The decision of the Provost/COO will be final.

**b.** The student may remain in class or on clinical rotations/assignments pending the outcome of appeals, except in cases of summary suspension, and except when the Provost/COO has suspended the student or has otherwise determined that it is inappropriate for the student to remain in class or participate in clinical rotations/assignments, consistent with the decision of the Academic Dean that is being appealed.

**c.** If a student is suspended for any reason, all student financial aid will be withheld until the appeal process is resolved by reinstatement of the student or dismissal of the student. If reinstated, the financial aid funds can be released to the student. If the student is dismissed, the funds will be returned to the proper agency/lender respectively.

#### **19. Protocol for Input on Matters of Student Concern**

When a student has a personal concern involving a teacher or course that is not of general interest to the class, he/she should speak to the professor directly.

If the concern might involve more of the class, he/she should take the concern to the appropriate class representative (e.g., curriculum representative or class president) so they might sample class opinion to find out the extent of concern.

If, in the opinion of the class representative, the concern is valid, the class representative should bring the matter to the attention of the class professor with the object of resolving it at that level.

If the matter cannot be solved between the class and the professor, it should be taken to the Academic Dean or designee. If the matter cannot be handled properly by the respective Dean, or if the students feel it was not, it should be taken to the Provost/COO, whose decision shall be final.

**Note:** Grade appeals may not be pursued under this protocol.

## **20. Legal Limitations on Practice of Health Care**

It is a violation of the law and contrary to the policy of this University for any unlicensed person to attempt to engage in professional practice of health care. Students, therefore, are cautioned to confine such activities to duly licensed and supervised teaching clinics.

## **21. Modification of Academic Policies and Procedures under Extenuating Circumstances**

The University reserves the right to modify the particular terms, conditions and deadlines contained within these University-wide and College-specific academic policies and procedures should extenuating circumstances warrant such modification. Such extenuating circumstances include such situations as a major catastrophe which may render either the student or the appropriate academic officer unavailable, serious illness or incapacity of either the student or academic officer which may lead to delay or other inability to follow the policies as present in this catalog, death of an immediate family member of an affected party, or other situations of such similar emergent and grave magnitude. If the student, for reasons outlined above, falls into such a situation that makes him or her unable to comply with the terms and conditions listed in this Catalog, the matter must be reported, preferably in writing, to the appropriate Dean or the Provost/COO, clearly documenting the situation and the need to grant a variance to these policies and procedures as soon as this is feasible. If the University must grant a variance when it finds itself unable to comply with the written policies and procedures in the case of such similar emergent and grave situations, the student will be informed of this need and the proposed alteration as soon as it is feasible to do so.

## **22. Background Investigations**

To meet State regulations and hospital accreditation requirements, hospital facilities are requiring students to complete criminal background checks prior to beginning rotations/clinical experiences. Because of this new regulation to assure patient safety, students admitted to programs with clinical training requirements will be required to complete a criminal background check prior to matriculation or as a component of the scheduling of clinical experiences. Certain convictions may prevent students from entering hospital facilities, which may hinder a student's ability to successfully complete his or her academic program. If a criminal conviction or other relevant sanction is shown on the background check, hospital facilities have discretion as to whether the individual may enter the clinical facility as a nursing student.

Certain convictions may also prevent students from obtaining licensure in the State of California or other states. Applicants and current students are advised to check with the appropriate State(s) licensing boards to determine whether their backgrounds may be a barrier to future licensing. Procedures for obtaining a background investigation will be provided to the student by the appropriate academic program staff.

# TUITION AND FEES

Tuition and fees are subject to change without notice upon approval by the Board of Trustees. Mandatory fees for each student are non-refundable. For complete information about tuition and fees, refer to the appropriate section for each program.

## FUTURE TUITION RATE INCREASES

You can expect that tuition increases will be part of your educational experience at Western University; however, one should know that the Board of Trustees and the administration of this University strive each year to keep tuition at a reasonable level. While we are committed to quality educational programs, the inevitable increases in operating costs each year make it necessary to adjust tuition accordingly. The administration will communicate tuition rate adjustments as soon as they are determined by the Board of Trustees.

## TUITION AND MANDATORY FEES

### Tuition and Fee Payments

Tuition is assessed in installments, as indicated in the Calendar section for each particular academic program. Depending on the academic program, each required payment corresponds to a "period of enrollment."\* A refund policy for a withdrawal or a leave of absence has been established to address the receipt of private payment and Title IV Student Financial Aid funds (see **Tuition Refund Policy** below).

Western University charges tuition based on an "academic" year and covers two period of enrollment for most programs. The number of weeks of instructional time during the period of enrollment is measured beginning on the first day of class and/or rotation and ends on the last day of class and/or rotation.

*\*Students in the Master of Science in Health Sciences and in the College of Graduate Nursing programs will pay tuition and fees on a trimester year. Refunds will be based on the trimester.*

### Other Fees/Expenses

- a. Audit/Remediation Fee: The fee charged for auditing or remediating a class will be calculated on a prorata basis.
- b. Other Fees and Expenses

Graduation Fee (assessed in the year preceding graduation)	\$200
Western University Parking Permit Fee (Annual, optional)	\$400
Late Registration Fee	\$ 30 per day
Breakage Fee	Cost of Replacement
Lost I.D. Badge	\$ 10
Lost Locker Key	\$ 40
Copy of Official Transcript (each)	\$ 6
Rush Transcript (1 <sup>st</sup> class mail)	\$ 21
Rush Transcript (Federal Express)	\$ 25
Copy of Student File Material	25 cents per page
Background Investigation (estimated cost)	\$ 50

## PREPAID TUITION PLAN

The Prepaid Tuition Plan allows for payment of future years' tuition at the current tuition rate. This option will assist in avoiding future tuition increases. The payment must be received at least one year before the start of the next academic year.

Mandatory fees will be charged annually and are not included in the prepayment provisions. For additional information, please contact the Financial Aid Office at (909) 469-5354 or the Bursar's Office at (909) 469-5403.

## **WESTERN UNIVERSITY TUITION REFUND POLICY**

Western University has established a refund policy for all students who find it necessary to withdraw from the University. Students who elect to withdraw or take a leave of absence during the academic year must submit prior written notification to the appropriate Academic Dean according to the procedures specified in this Catalog for their program. Western University may amend its institutional refund policy at any time. Amendments will become effective for the academic year that follows official notification of the amendment. Any questions concerning Western University's refund policy should be directed to the Bursar's Office.

### **Calculation of Amount of Eligible Tuition Refund**

The amount of tuition refund for which the student is eligible is computed as follows:

- If the day the student withdrew was on or before the student completed 60 percent of the enrollment period for which tuition was paid, the percentage refund is computed as one hundred percent minus the percentage of the enrollment period that has elapsed up to the date of withdrawal.
  - Students who withdraw after completing 60 percent of the enrollment period for which tuition was paid are not entitled to a refund.

### **Determining the Withdrawal Date**

The withdrawal date is:

- a. The date the student begins the withdrawal process prescribed by the respective College;
- b. The date that the student otherwise provided official notification to the respective College of the intent to withdraw; or
- c. The midpoint of the enrollment period for which Student Financial Aid Programs Assistance was disbursed or a later date documented by the respective College, if the student did not begin the withdrawal process or otherwise notify the respective College of the intent to withdraw.

If the College determines that a student did not begin the withdrawal process or otherwise notify the respective College of the intent to withdraw due to illness, accident, grievous personal loss or other circumstances beyond the student's control, the College may determine the appropriate withdrawal date.

For additional information regarding refund policies for student participating in Student Financial Aid Programs, see **Financial Aid** below.

## **COMPREHENSIVE HEALTH PLAN**

It is mandatory that all Western University students have a health insurance plan in force at the time of registration. If a student can show valid proof of personal health insurance to the Plan Administrator, at least equal in benefits to the plan recommended by the University, it will not be necessary to purchase any additional insurance. If valid proof of other insurance cannot be shown, the student will automatically be enrolled in the health insurance plan made available by the University. This is described in the health plan brochure provided at the time of registration. There are several available options. The plan with the better benefits is recommended. Dependent coverage, although not required, is optional at an additional premium (see Health Plan Brochure).

## **FINANCIAL AID**

Financial aid is not intended to replace the financial responsibility of the student; rather, it is intended to supplement what the family can provide. Students are required to complete the Free Application for Federal Student Aid (FAFSA) each year they are seeking financial aid. The information provided is used to create an analysis of each student's financial ability to contribute toward their educational costs. Students may complete the FAFSA application via the Internet at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Students are required to inform Western University's Financial Aid Office of all financial assistance (including scholarships) they receive.

More detailed information on the various types of scholarships and awards can be found at Western University's website under "Financial Aid." Western University reviews and administers all of its programs without discrimination as to race, creed, gender, national origin, or non-disqualifying handicap.

## **FINANCIAL AID AND THE WORLD OF PRIVATE PHILANTHROPY**

Beyond the various federal, state, and other public and commercial funding sources, there is another sector that provides valuable support to Western University students. It is the world of private philanthropy: those individuals, corporations, and foundations who willingly accept the responsibility of serving as good citizens of the larger society. These benefactors contribute to assisting students in achieving their education goals and, ultimately, to the quality of health care delivered to the public.

## **DEPARTMENT OF EDUCATION**

### **TITLE IV PROGRAMS**

#### **Federal Financial Aid Program Criteria**

To be eligible for federal financial aid programs, students must be U.S. citizens or permanent residents of the United States, attending at least half-time, and making satisfactory progress toward their degrees. The amount of financial aid awarded by the school can never exceed the educational cost of attendance. Students cannot be in default on any educational loan or owe a refund on any state or federal educational grant. In addition, all male students must have completed U.S. Selective Service registration requirements to qualify.

Federal Subsidized Stafford Loan: Available to undergraduate and graduate students through the U.S. Department of Education and guaranteed by the federal government. The interest on these loans is subsidized (paid) by the federal government while the student is enrolled at least half-time in school.

Federal Unsubsidized Stafford Loan: Available to undergraduate and graduate students through the U.S. Department of Education and guaranteed by the federal government. However, the federal government does not pay the interest while the student is in school. Subsidized Stafford loan eligibility must be determined first, before a student can apply for an Unsubsidized Stafford loan.

Federal PLUS Loan: Available to graduate and professional degree students through the U.S. Department of Education guaranteed by the federal government. Unlike parent PLUS applicants, graduate and professional degree student PLUS applicants must file a FAFSA. In addition, graduate and professional degree students must have their annual loan maximum eligibility under the Stafford Loan program determined by the school before they apply for a PLUS loan.

Federal Work Study (FWS): The FWS program provides funds for part-time jobs which allow students to earn money needed to pay for educational expenses. FWS awards are a form of federal financial aid and students must be a permanent or U.S. citizen. Positions could be available on or off campus. Students are encouraged to find positions that provide work experience in their field of study or provide valuable service to the community.

Increased Annual Unsubsidized Loan Limits: Western University participated in the Health Education Assistance Loan (HEAL) program before its phase out in 1998. As a result, the school may award the increased unsubsidized amounts to students who are enrolled full-time in a health professions discipline that was eligible under the HEAL program and is accredited by an approved accrediting agency. Because the increased annual unsubsidized Stafford Loan limits are intended to replace funds that would have been available previously under the HEAL program, the annual loan limits for the increased unsubsidized amounts are the same as the HEAL program annual loan limits.

Federal Subsidized and Unsubsidized Annual Loan Limits: The maximum annual Subsidized and Unsubsidized Stafford loan limits per program are as follows for the 2010/2011 academic year:

	<u>Subsidized</u>	<u>Unsubsidized</u>
Doctor of Osteopathic Medicine (DO) Program		
First Year	\$8,500	\$36,444
Second Year	\$8,500	\$34,222
Third Year	\$8,500	\$38,667
Fourth Year	\$8,500	\$36,444
Doctor of Pharmacy (PharmD) Program		
First Year	\$8,500	\$25,889
Second Year	\$8,500	\$27,279
Third Year	\$8,500	\$25,889
Fourth Year	\$8,500	\$28,667
International Post-Baccalaureate Pharmacy (IPBP) Program		
First Year	\$8,500	\$27,279
Second Year	\$8,500	\$25,889
Third Year	\$8,500	\$28,667
Doctor of Physical Therapy (DPT) Programs	\$8,500	\$28,667
Doctor of Veterinary Medicine (DVM) Program	\$8,500	\$34,222
Doctor of Nursing Practice (DNP) Program	\$8,500	\$28,667
Doctor of Dental Medicine (DMD) Program		
First Year	\$8,500	\$38,667
Second Year	\$8,500	\$38,667
Doctor of Podiatric Medicine (DPM) Program		
First Year	\$8,500	\$36,444
Second Year	\$8,500	\$34,222
Doctor of Optometry (OD) Program		
First Year	\$8,500	\$36,444
Second Year	\$8,500	\$38,667
Master of Science in Health Sciences (MSHS) Program	\$8,500	\$12,000
Master of Physician Assistant (MSPA) Program		
First Year	\$8,500	\$28,667
Second Year	\$8,500	\$27,279
Master of Science in Pharmaceutical Sciences (MSPS) Program	\$8,500	\$25,889
Master of Science in Medical Sciences (MSMS)	\$8,500	\$12,000
Master of Science in Biomedical Sciences (BMS)	\$8,500	\$12,000
Master of Science Nursing/Family Nurse Practitioner (MSN/FNP) Program	\$8,500	\$28,667
Master of Science Nursing Entry (MSN-E) Program	\$8,500	\$28,667
Family Nurse Practitioner (FNP) Program	\$3,500	\$ 6,000
Associate Degree in Nursing to Master of Science in Nursing (ADN to MSN)	\$8,500	\$28,667

Aggregate Loan Limits for Subsidized & Unsubsidized Stafford Loans: A borrower who has reached his or her aggregate borrowing limit may not receive additional loans. Once the loans are repaid, in full or in part, the borrower may apply for additional Stafford loans. Outstanding loans include student loans received while the student completed undergraduate and graduate work. In the case of Consolidation loans, the outstanding amounts of any underlying Stafford loans are counted towards the loan limits. The total loan debt a student may have outstanding from all Stafford loans differs depending on their academic program.

The maximum outstanding total subsidized and unsubsidized Stafford loan debt is:

- \$57,500 for the FNP certificate program, no more than \$23,000 of this aggregate amount may be in the form of subsidized loans.
- \$138,500 for the MSHS program, no more than \$65,500 of this aggregate amount may be in the form of subsidized loans.

**Increased Aggregate Loan Limits, Graduate and Professional:** The combined subsidized/unsubsidized aggregate loan limit for graduate and professional health professions students who are eligible to receive the increased unsubsidized amounts is \$224,000 (not more than \$65,500 of this amount may be in subsidized loans). Programs with this aggregate limit include: DO, PharmD, DPT, DVM, DMD, DPM, OD, MSPS, MSPA, and all MSN programs.

**Federal Perkins Loan:** For eligible undergraduate and graduate students and subject to availability of funds. The amount awarded varies, depending on financial need and federal allocation to our school. The Perkins undergraduate aggregate is \$20,000, and graduate students have a \$40,000 total aggregate. Perkins loans have a fixed interest rate at five percent.

### **DEPARTMENT OF HEALTH AND HUMAN SERVICES**

#### **TITLE VII PROGRAMS LOANS & SCHOLARSHIPS**

**Loans for Disadvantaged Students (LDS):** Provides long-term, five percent interest loans to eligible osteopathic medical and pharmacy students from disadvantaged backgrounds, subject to fund availability.

**Primary Care Loans (PCL):** For eligible medical students and subject to availability of funds. The long-term five percent fixed simple interest loan amounts vary, depending on financial need and federal allocation. Eligibility is determined by the student's independent status. In order to be classified as an independent student you must meet the following criteria: A student who is at least 24 years of age and has not been listed as a dependant on this or her parent's tax forms within the last three years. Students receiving PCL will only need to practice as a primary care physician for 10 years. After 10 years the student no longer has to practice in primary care even though there is a remaining balance.

**Nursing Student Loans (NSL):** Is used to provide loans to students enrolled in an eligible advanced degree program in nursing (master's or doctoral). Provides long-term, five percent interest loans to eligible full-time or half-time financially needy students. Awarding is subject to availability of funds.

**Nursing Faculty Loan Program:** Is used to provide loans to students enrolled in an eligible advanced degree program in nursing (master's or doctoral). After graduation from the advanced education nursing degree program, loan recipients may cancel up to 85 percent of the NFLP loan over a consecutive 4-year period while serving as full-time nurse faculty at a school of nursing (i.e. baccalaureate or higher degree, associate degree or diploma schools of nursing). Awarding is subject to availability of funds.

### **SCHOLARSHIPS WITH SERVICE REQUIREMENTS**

**National Health Service Corps Scholarships (NHSC):** This scholarship provides full tuition, fees, books, and a monthly stipend for osteopathic medical, dental, physician assistant, and family nurse practitioner students. Students must serve in a designated medically underserved area (rural, inner city or Indian health). Minimum obligation is two years and a student must be an U.S. citizen.

**Military Health Professions Scholarships:** The Army, Navy and Air Force offer Health Professions Scholarship programs to students for tuition, fees, books and supplies, and a monthly stipend. While in school, students are expected to serve forty-five days of active duty per year with pay, when possible. One year of active service as a medical officer (after internship and/or residency) is required for each year of support in the scholarship program, with a minimum requirement of three years.

### **UNIVERSITY ADMINISTERED SCHOLARSHIPS**

**The Dr. Robert E. Corey Memorial Scholarship Fund:** Established January 1983 as a memorial to Robert Corey, DO. Recipients are selected from second, third and fourth year for their commitment to osteopathic medicine, outstanding community service and demonstrated financial need as determined by the institution.

**The Albert Victor and Mary P. Kalt Scholarship Fund:** Established June 1977, and is available for students of all disciplines who express a desire to work in primary care in an underserved/rural area.

### **SCHOLARSHIPS FOR INCOMING STUDENTS**

**The Academic Excellence Scholarship:** Designated for incoming students and are based on the student's outstanding academic achievements as well as his/her contributions to the community. Subject to available funding, Western University will award the scholarship to all academic programs. These scholarships

consist of single-year and multiple-year awards provided that the student remains in good academic standing.

## **UNIVERSITY ADMINISTERED LOANS**

WesternU Emergency Loan Programs: Limited funds made available on a short-term basis to meet financial emergencies. The maximum loan is \$500 interest-free. Since this is a revolving loan fund, it is expected to be repaid in ninety days.

Roger E. Coe Loan Fund: Established in March 1981 by a gift from Roger M. and Ruby M. Coe. Two loans of \$2,500 are awarded in the spring of each year to osteopathic medical students who have completed their second or third year at Western University and are particularly interested in osteopathic manipulative skills. Interest begins to accrue at the time the loan is disbursed at the rate of five percent. First payment begins immediately after graduation with full repayment of loan funds within five years.

## **VETERANS' EDUCATIONAL BENEFITS**

The Registrar's Office will provide certification of enrollment services for veterans and will serve as a direct liaison between our University and Veterans' Administration regarding underpayment, overpayment, or non-payment benefits. Students expecting to collect educational benefits may obtain further information from Western University's Registrar's Office or Financial Aid Office. As of this publication DO, DVM, DPT, MSHS, MSBS, MSMS, MSN/FNP, MSPA, DPM, OD, DMD and PharmD programs are eligible. In order to continue collecting benefits, a veteran must be making satisfactory progress towards a degree.

The U.S. Department of Veteran Affairs Education Service provides information on obtaining V.A. benefits. V.A. application forms are available at <http://www.gibill.va.gov/>. Western University does not participate in the Yellow Ribbon Program

## **GRADUATE TEACHING FELLOWS IN THE DEPARTMENT OF OSTEOPATHIC MANIPULATIVE MEDICINE**

This Fellowship program in the Department of Osteopathic Manipulative Medicine of the College of Osteopathic Medicine of the Pacific (COMP) is designed to expand the educational opportunities for osteopathic medical students while they assist in all phases of the department's operation. OMM Fellows assist in lecturing and teaching practical skills to medical students. In order to participate in the Fellowship program, each student takes five years, instead of four, to complete all of their educational requirements, including hospital and private practice clinical rotations, for the Doctor of Osteopathic Medicine degree. Fellows receive a full tuition/fees waiver their third and fourth years and an annual stipend for the fifth year. Fellows are selected from each MSII class annually.

**TUITION REFUND POLICY:** Western University of Health Sciences has adopted the Department of Education refund policy for all students who find it necessary to withdraw from the University or take a leave of absence during the academic year. It is a universal policy that applies to all students, those receiving and not receiving financial aid. Students who elect to withdraw or take a leave of absence during the academic year must submit prior written notification to the appropriate Academic Dean according to the procedures specified in the Catalogue for their program. Western University may amend its institution refund policy at any time. Amendments will become effective for the academic year that follows official notification of the amendment. Any questions concerning Western University's refund policy should be directed to the Bursar's Office.

### **General Requirements**

Federal Student Aid funds are awarded to a student under the assumption that the student will attend school for the entire period for which the assistance is awarded. When a student withdraws, the student may no longer be eligible for the full amount of Title IV funds that the student was originally scheduled to receive.

If a recipient of Federal Student Aid loan funds withdraws from school after beginning attendance, the amount of Federal Student Aid loan assistance earned by the student must be determined. If the amount disbursed to the student is greater than the amount the student earned, unearned funds must be returned. If the amount disbursed to the student is less than the amount the student earned, and for which the student is

otherwise eligible, he or she is eligible to receive a post-withdrawal disbursement for the earned aid that was not received.

#### **Definition of a Title IV Recipient**

A recipient of loan assistance is a student who has actually received Title IV funds or has met the conditions that entitle the student to a late disbursement. If the student never actually began attendance for the payment period or period of enrollment, the refund policy does not apply. Similarly, if a student began attendance, but was not and could not have been disbursed Title IV funds prior to withdrawal, the student is not considered to have been a Title IV recipient and the requirements of this refund policy do not apply.

#### **Title IV Aid Disbursed**

The calculation of earned Federal Student Aid includes all Title IV loan funds that were disbursed or could have been disbursed to a student. This includes subsidized and unsubsidized Stafford loan funds, and funds from the Federal Perkins and PLUS loan programs.

A student's Title IV funds are disbursed when the school credits a student's account with the funds or pays a student directly with Title IV funds received from the U.S. Department of Education. A student's aid is counted as disbursed in the calculation if it is disbursed as of the date of the institution's determination that the student withdrew.

#### Percentage of Title IV Aid Earned

The withdrawal date is used to determine the point in time that the student is considered to have withdrawn so the percentage of the enrollment period completed by the student can be determined. The percentage of Title IV Aid earned is equal to the percentage of the enrollment period completed. If the day the student withdrew occurs when or before the student completed 60 percent of the enrollment period for which the assistance was awarded, the percentage earned is equal to the percentage of the enrollment period that was completed. If the day the student withdrew occurs after the student has completed more than 60 percent of the enrollment period, the percentage earned is 100 percent.

#### Determining a Student's Withdrawal Date at a School That is not Required to Take Attendance

The chart below lists the withdrawal date for the various types of withdrawals, as well as the date of the institution's determination that the student withdrew for each type of withdrawal.

Withdrawal Type	Circumstance	Student's Withdrawal Date <sup>1</sup>	Date of the Institution's Determination that the Student has Withdrawn
Official Notification	The student begins the school's withdrawal process, or  The student otherwise provides official notification to the school of intent to withdraw.	The date the student begins the school's withdrawal process, or  The date that the student otherwise provides the notification.  (If both circumstances occur, use the earlier withdrawal date.)	The student's withdrawal date, or the date of notification, whichever is later.
Official Notification Not Provided	Official notification not provided by the student because of circumstances beyond the student's control.  All other instances where student withdraws without providing official notification.	The date that the school determines is related to the circumstance beyond the student's control.  The midpoint of the payment period or period of enrollment, as applicable.	The date that the school becomes aware that the student has ceased attendance. <sup>2</sup>
Leave of Absence Related	The student does not return from an approved leave of absence, or	The date that the student began the leave of absence.	The earlier of the dates of the end of the leave of absence or the date the student notifies the

	The student takes an unapproved leave of absence		school he or she will not be returning to that school.  (In the case of an unapproved absence, the date that the student began the leave of absence.)
Withdrawal After Rescission of Official Notification	The student withdraws after rescinding a previous official notification of withdrawal.	The student's original withdrawal date from the previous official notification.	The date the school becomes aware that the student did not, or will not, complete the program period or period of enrollment.

<sup>1</sup>In place of the dates listed, a school may always use as a student's withdrawal date the student's last date of attendance at an academically related activity, if the school documents that the activity is academically related and that the student attended the activity.

<sup>2</sup>For a student who withdraws without providing notification to the school, the school must determine the withdrawal date no later than 30 days after the end of the earliest of the (1) payment period or period of enrollment (as appropriate), (2) academic year, or (3) educational program.

#### Title IV Aid to be Returned

If a student receives more Federal Student Aid than the amount earned, the school, or the student, or both must return the unearned funds in a specific order. The amount of Federal Student Aid to be returned is determined by subtracting the amount of earned Title IV aid from the amount of Title IV aid that was actually disbursed to the student.

#### Amount of Unearned Title IV Aid due from the School

When a return of Title IV funds is due, the school and the student may both have a responsibility for returning funds. Funds that are not the responsibility of the school to return must be returned by the student. Although these requirements talk in terms of returning funds, a school is not required to actually return its share before the student. Rather, it is the Return calculation of the amount of assistance the school is responsible for returning to the Title IV accounts that must be calculated first. The student's repayment obligation is determined after the school's share is calculated. The school must return the lesser of

- The amount of Title IV funds that the student does not earn; or
- The amount of institutional charges that the student incurred for the payment period or period of enrollment multiplied by the percentage of funds that was not earned.

#### Return of Funds by the School: Order of Return of Title IV Funds

A school must return Title IV funds to the programs from which the student received aid during the payment period or period of enrollment as applicable, in the following order, up to the net amount disbursed from each source:

- Unsubsidized Direct Stafford loans
- Subsidized Direct Stafford loans
- Federal Perkins loans
- Direct PLUS loans

#### Time Frame for the Return of Title IV Funds

A school is required to return unearned funds for which it is responsible as soon as possible, but no later than forty-five days from the determination of a student's withdrawal.

#### Repayment of Student Loans

The student loans that remain outstanding consist of the loans disbursed to the student minus any loans the school repaid. These outstanding loans are repaid in accordance with the terms of the student's promissory notes.

Reference: Federal Student Aid Handbook 2009-2010 Award Year

## WESTERN UNIVERSITY CALENDAR\*

INDEPENDENCE DAY Classes resume	Friday, Jul. 3, 2009 Monday, Jul. 6, 2009
CONVOCATION	Saturday, Aug. 7, 2010
LABOR DAY (no classes)	Monday, Sept. 6, 2010
COLUMBUS DAY (no classes)	Monday, Oct. 11, 2010
THANKSGIVING RECESS Last Day of Classes Classes Resume	Wednesday (5 pm), Nov. 24, 2010 Monday, Nov. 29, 2010
WINTER RECESS Last Day of Classes Classes Resume	Friday, Dec. 17, 2010 Monday, Jan. 3, 2011
MARTIN LUTHER KING HOLIDAY (no classes)	Monday, Jan. 17, 2011
PRESIDENTS DAY (no classes)	Monday, Feb. 21, 2011
COMMENCEMENT	Thurs.-Fri., May 19-20, 2011
MEMORIAL DAY (no classes)	Monday, May 30, 2011

\*The College of Osteopathic Medicine of the Pacific, the College of Pharmacy, the College of Graduate Nursing, the College of Veterinary Medicine, the College of Podiatric Medicine, the College of Optometry, the College of Dental Medicine, the programs of the College of Graduate Biomedical Sciences and the programs of the College of Allied Health (DPT, PA, and MSHS) maintain specific, detailed program calendars. Please consult the appropriate program to determine additional official dates.

# **COLLEGE OF ALLIED HEALTH PROFESSIONS**

## **MISSION**

The College of Allied Health Professions supports the mission of Western University of Health Sciences by providing high quality professional and graduate education. The College utilizes the team approach to develop competent and compassionate professionals who provide service to the community and continually develop their skills, knowledge, and abilities through independent lifelong learning activities.

## **GOALS**

1. To educate an allied health workforce that helps to meet the healthcare and educational needs of the State of California and the west.
2. To achieve an environment and culture that support all members of the College.
3. To ensure an environment and culture that empower all persons in the College to maximize their potential as contributing members in the education of students, in research and clinical activities, and in service to the community.

# **COLLEGE OF ALLIED HEALTH PROFESSIONS**

## **College of Allied Health Professions**

### **Master of Science in Health Sciences Program**

#### **ABOUT THE DEPARTMENT OF HEALTH SCIENCES EDUCATION**

**Mission:** The Department of Health Sciences Education supports Western University of Health Sciences' mission by increasing the availability of health care educators. The department further meets the health care needs of the community by preparing graduate level Community Health Educators.

**Vision:** The Department of Health Sciences Education seeks to become the leader in providing educational programs. Graduates will be experts and leaders in health education, promotion, and delivery, dedicated to fostering the development of future professionals and contributing to the body of knowledge in the health sciences.

#### **Goals of the Department of Health Sciences Education**

The Department of Health Sciences Education provides students with the necessary background and skills in theory and practical application in both clinical and non-clinical settings. In fulfillment of the mission of the University, the Department's goals are to:

1. Educate professionals who will function as leaders in various healthcare settings.
2. Provide educational experiences, which enable healthcare professionals to function as leaders in education, program and curriculum design and evaluation in a variety of health education settings.
3. Provide educational experiences that enable individuals to function as leaders in the areas of health professions education and community health education.
4. Promote and encourage graduates and students to maintain lifelong learning and the pursuit of supporting advances in patient care, community service, and research and health education.
5. Assist students in the integration of theory and practice to ensure healthcare education and delivery will be relevant to the needs of society.
6. Encourage students to engage in productive professional relationships to acquire, evaluate and communicate information about the health sciences.
7. Create and be responsive to the needs of healthcare professionals and consumers, thereby providing opportunities for educational expansion.
8. Enhance continuing professional education in the health sciences.
9. Further develop collaborations and partnerships in the healthcare community throughout the United States.
10. Continue to provide educational service to all professionals in the healthcare community.

#### **BASIC COMPETENCIES (OUTCOMES)**

The Department of Health Sciences education offers opportunities for students to pursue a Master of Science in Health Sciences degree specializing in Health Professions Education and Community Health Education. Additional emphasis is placed on the acquisition of executive skills and leadership for advancement in the health professions. Course delivery is accomplished within an integrated context of theory and practice that meets the academic requirements for a graduate degree in Health Sciences. The broad interest of the faculty provides special opportunities to cross the boundaries between various health care disciplines and education, depending on the unique scope of the students' experience. Course work is formulated and designed to promote knowledge, values and skills essential for competence in the following four domains:

1. Basic statistical analysis and research methodologies
2. Didactic curriculum design, implementation and evaluation
3. Clinical and community based program design, implementation and evaluation

#### 4. Executive skills for health professions education leaders

##### Basic statistical analysis and research methodologies:

Students will engage in the application of statistics for the purpose of interpreting statistics and scholarly literature. The information extrapolated is intended to prepare the learner to assess and utilize scientific literature accurately and appropriately. Research methodologies are employed with an emphasis on conducting program evaluation.

##### Didactic curriculum design, implementation and evaluation:

Students will explore teaching and learning theories and apply them to the development of educational interventions in the traditional health professions classroom environment. Test construction, student learning evaluation, applied teaching strategies for cultural competence and the use of educational modalities and instructional technology are some of the major components of this aspect of the curriculum.

##### Community based program design, implementation and evaluation:

Students will engage in the development, implementation and evaluation of health education interventions and programs in clinical and non-traditional educational environments. The application of skills in various agency structures form the foundation of exploration in networking and collaborating for service learning, program/project funding, marketing, and community outreach. Emphasis is placed on understanding and overcoming barriers to success in clinical teaching settings and community based educational interventions.

##### Executive skills for educational and community leaders:

Recognizing the challenge in balancing the business of health care delivery and health education with patient centered care and learner centered education, students will apply essential functions of executive management to the traditional, clinical and non-traditional educational environments. Emphasis is placed on the application of leadership theories, strategic planning models, organizational dynamics and structure. Basic competence in fiscal operations, human relations and administrative decision making form the basis for preparing students to function as leaders in academic, clinical and community based health education environments.

#### **Objectives and Student Learning Outcomes**

The program is designed to prepare health care professionals with skills in teaching, learning, curriculum design, evaluation of individuals and programs, scholarship, leadership and research. Upon completion of the program, students will be able to:

<b>Program Objectives</b>	<b>MSHS Student Learning Outcomes</b>
1. Create proficiency in adult education practices based upon rational principles and theories.	1.1 Demonstrate multicultural awareness, knowledge and skills and apply them to the teacher-student relationship. 1.2 Interpret and apply learning theory and research in all aspects of education.
2. Apply educational theories, models and concepts in the health care setting.	2.1 Demonstrate the connection between educational theory and learning principles in educational settings. 2.2 Interpret and apply learning theory and research in all aspects of education. 2.3 Demonstrate executive skills in strategic planning and organizing.
3. Create, implement and analyze valid research projects in health professions education or community health education.	3.1 Demonstrate the ability to analyze current research in education and incorporate evidence based methods to instructional design. 3.2 Demonstrate critical thinking in the design and implementation of quantitative and qualitative research methods in the evaluation of student performance and educational programs.

	3.3 Produce defensible grant proposals utilizing research design principles to develop programs.
4. Apply executive leadership skills to the administration of health education programs.	4.1 Demonstrate ethical and moral decision making in the application of executive skills for fiscal operations, leadership and implementing change.
5. Collaborate with academic health care specialists to further the advancement of the health sciences.	5.1 Create collaborations with fellow students, alums, organizations, educators and health care providers to implement health education programs. 5.2 Collaborate with members of inter-professional education teams at WUHS to advance health care professionals knowledge of and appreciation for health sciences and health educators.
6. Create, implement and evaluate didactic or community based education interventions and programs.	6.1 Demonstrate competence in the application and evaluation of teaching, learning and program effectiveness. 6.2 Demonstrate the ability to analyze, design, conduct and defend research data in an educational context.
7. Implement appropriate change to enhance the access and quality of didactic or community based programs.	7.1 Demonstrate executive skills in strategic planning and organizing. 7.2 Apply theories of organizational dynamics and create strategic plans for educational curriculum and program design. 7.3 Evaluate and apply research practices to educational assessment and accountability systems.
8. Create, implement and evaluate educational and informational materials for a variety of professionals and consumers.	8.1 Demonstrate executive skills in strategic planning and organizing. 8.2 Evaluate and apply research practices to educational assessment and accountability systems.
9. Maintain a high standard of academic excellence and pursuit of learning.	9.1 Perform to the level of educational best practices in academia and community health education. 9.2 Meet the criteria for the National Certification of Health Educators. ( <i>applies only to CHE students</i> ).
10. Contribute scholarly research to the health sciences and health care professions.	10.1 Produce scholarly writing in the form of papers, articles, thesis, special projects, original research and literature analysis suitable for publication in evidence based journals.

#### **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

A candidate for admission to the degree program in the Department of Health Sciences Education must have the use of certain sensory and motor functions, or reasonable accommodations thereto; to permit them to carry out the activities described in the sections that follow. Graduates of the program are eligible for employment in a wide variety of academic and clinical teaching programs, using an extensive variety of educational methodologies. As a result, they must have the intellectual ability to learn, integrate, analyze, and synthesize numerical, visual and textual information in the health professions fields. They must also be able to effectively and accurately integrate this information and communicate it to others by both oral and written means.

A candidate for the degree program in the Department of Health Sciences Education ordinarily must have abilities and skills of five general varieties, including: (1) observation; (2) communication; (3) motor;

(4) intellectual, conceptual, integrative and quantitative; and (5) behavioral and social. Reasonable accommodations will be provided in appropriate situations. Under all circumstances, however, a candidate should be able to perform in a reasonably independent manner. The following provides an overview of the five general varieties of minimal technical standards that must be met by all successful applicants to the degree programs in the Department of Health Sciences.

1. Observation: Candidates and students must have sufficient vision, with or without reasonable accommodations, to be able to observe demonstrations and presentations by faculty and other students.
2. Communication: Candidates and students must be able to communicate with students and colleagues. They should be able to hear, with or without reasonable accommodations. Candidates and students must be able to read, write, and speak English.
3. Motor: Candidates and students should have sufficient motor function, or reasonable accommodations to enable them to operate commonly used educational equipment (including, but not limited to, computers, videotape players, overhead projectors) and design and produce educational materials. These activities require coordination of both gross and fine muscular movements, equilibrium, and functional use of the senses of touch or vision.
4. Intellectual, Conceptual, Integrative, and Quantitative Abilities: Students must demonstrate problem-solving skills, which include measurement, calculation, reasoning, analysis, and synthesis. Instructional design and the preparations of a thesis or special project require all of these intellectual abilities.
5. Behavioral and Social Abilities: Candidates and students must possess the emotional health required for full utilization of the intellectual abilities, the exercise of good judgment, the prompt completions of all responsibilities attendant to an instructor in an educational setting, and the development of mature, sensitive, and effective relationships with students and colleagues. Candidates and students must be able to adapt to changing environments and display flexibility in dealing with students at various educational levels in the health professions. Compassion, integrity, concerns for others, interpersonal skills, interest, and motivation are all personal qualities to be assessed during the admissions and educational processes.

## **ADMISSION POLICIES AND PROCEDURES**

Students may apply for admission in either the fall or spring semesters. Western University is committed to admitting competitive, qualified individuals with disabilities.

### **Application Requirements:**

Applicants to the Department of Health Sciences Education should possess a strong desire to master the skills germane to the development, implementation and evaluation of health care curricula and community based health education programs. Candidates must meet the following academic requirements:

1. A bachelor's degree from an accredited institution is preferred. However, consideration will be given on a case-by-case basis provided that the applicant has completed at least 90 semester hours at the undergraduate level from an accredited college or university. Thirty (30) units must consist of upper division coursework, i.e., junior or senior level courses. Advanced placement, CLEP examination or credit for experiential learning is not recognized by the program as meeting these requirements.
2. A 2.7 GPA or above for undergraduate work is preferred, however, persons with a GPA of 2.5 will be considered for admission on a case-by-case basis. 3.0 GPA or above for graduate work is required.

Applicants must also submit the following materials for application

1. Official transcripts from all undergraduate and graduate institutions attended.
2. Statement of Purpose (Note: this document is also intended to serve as a writing sample so applicants should pay careful attention to the directions provided in the application).
3. Three letters of recommendation from academic or professional affiliates.
4. A current Curriculum Vitae.
5. Completed application form and a \$35.00 nonrefundable application fee.

**Application Procedures and Deadlines:**

Students are advised to submit application materials as early as possible prior to the semester in which they wish to begin their program of studies. Deadline for receipt of application materials is ***no later than 30 days prior to the first day of classes*** for each semester. Upon receipt of all application materials, the file is transferred to the Department of Health Sciences Education for review by the faculty.

To request an informational brochure and/or an application, contact the admissions office at

Office of Admissions  
Western University of Health Sciences  
309 E. Second Street  
Pomona, CA 91766  
(909) 469-5336

Or on the internet at <http://www.westernu.edu>.

**Information for International Applicants and for those whom English is a Second Language:**

It is highly recommended that international applicants apply as early as possible to allow time to apply for an international student visa, which is required for study in the U.S. Allow at least two weeks for airmail to reach us. General questions about visas, academic documentation, or legal issues related to studying in the U.S. should be directed to the Director of Admissions at (909) 469-5329.

International applicants whose native language is not English should receive a score of 600 or higher on the paper-based Test of English as a Foreign Language (TOEFL) or a score of 250 or higher on the computer-based TOEFL to demonstrate proficiency in English and the ability to handle the demands of graduate education. For more information, please consult the TOEFL Services website at <http://www.toefl.org>.

Upon review of the application materials and Statement of Purpose, the faculty may require an applicant whose native language is not English to achieve a score of 600 or higher on the paper-based TOEFL or a score of 250 or higher on the computer-based TOEFL to demonstrate proficiency in English and the ability to handle the demands of graduate education before being admitted to the program.

**Transfer of Credits:**

The maximum number of graduate units that may be transferred from another institution offering programs of graduate studies is **six** semester units. Only graduate credit relevant to the Master of Science in Health Sciences Education degree concentrations at Western University, which has been completed within the last five years, may be applied toward completion of the Master of Science degree. To be considered for transfer credit, the course must have been taken after the award of a bachelor's degree and be eligible for graduate studies credit at the issuing institution. The student must have received a grade B or above in the course. An official transcript and a course description should be submitted to the Chair of the Department of Health Sciences for consideration of the faculty. The Department of Health Sciences faculty will determine whether courses undertaken at other institutions qualify for transfer. No transfer credit will be given for HSCI 5999, HSCI 5300, or HSCI 5302.

**Continuing Education and Non-degree students:**

An applicant who does not wish to pursue a master's degree in health sciences at Western University of Health Sciences at the present time, but who wishes to engage in graduate study for (a) personal development, (b) continuing education, (c) specialty certification requirements or (d) other professional development needs, may consider enrollment as a non-degree student. Tuition is assessed at the published rate. Applicants must contact the Department of Health Sciences Education to request admission as a non-degree seeking student. A completed application and Statement of Purpose detailing the reasons for attending courses is required.

Admission as a non-degree student does not assure acceptance as a degree candidate, should the student at a later time wish to change enrollment status. A maximum of nine (9) semester units may be completed while matriculating in a non-degree status. Should the student wish to change enrollment status, the usual admission procedures must be followed. Questions about transferring from non-degree to degree status should be directed to the Chairperson, Department of Health Sciences Education.

**Readmission:**

Graduate students who have not been enrolled for more than one calendar year must submit a new application form and fee, unless other arrangements have been made at the time of withdrawal/leave from the program. The application will be assessed according to the current admissions policies, and students will be required to fulfill program requirements in place at the time of readmission.

**Teaching Fellows in the College of Osteopathic Medicine of the Pacific**

Students in the College of Osteopathic Medicine of the Pacific who elect to participate in the Health Professions Education and Research in Osteopathic Medicine degree track for teaching fellows must complete all of the usual application processes. Teaching fellows enrolled in COMP should refer to the curriculum specifications under Academic Program, below.

**REGISTRATION POLICIES AND PROCEDURES**

Prior to each semester, a class schedule is distributed to students by the Registrar. All candidates for the MSHS degree are required to register on-line or in person. Advisement is available from the Department Chair and faculty in order to promote greater efficiency in the registration and enrollment process. Enrollment occurs during *the week prior to the first class meetings*. Enrollment is available biannually, during the fall and spring semesters.

Students are responsible for contacting the Office of Financial Aid to verify the minimum enrollment required by their funding source. Students are required to maintain continuous registration until all requirements for the degree have been met, including, HSCI 5999 Thesis/Special Project, HSCI 5300 Directed Field Experience, and HSCI 5302 Independent Study. Students not enrolled in coursework or culminating options during the fall or spring semesters are required to register for the Continuous Registration course. The continuous registration fee is \$50.00.

**New Graduate Students:**

New graduate students are notified by electronic or US mail of their admission status. This notification will include a list of courses available during the next semester and the necessary registration materials. Completed registration materials and fees may be submitted through the US mail, or in person, two weeks prior to the first week of classes.

**Continuing Graduate Students:**

Continuing students will receive registration information and materials on-line prior to the beginning of the semester. Should this information not arrive for any reason, it is the student's responsibility to contact the office of Student Affairs for the appropriate materials. Completed registration materials and fees may be submitted to the Registrar through the mail or in person, two weeks prior to the first week of classes.

**Late Registration:**

Students must follow the registration procedures and timelines printed in the Class Schedule provided at the beginning of each regular semester. The days of registration and late registration are listed in the Schedule of Courses mailed to each student prior to the start of the semester by the Registrar. Appropriate fees for late registration will be assessed.

**Add/Drop and Withdrawal from Courses:**

In order to drop a class for which the student has previously registered, the student must submit a Change of Registration/Add-Drop form on-line or to the Department of Health Sciences, no later than the end of the third week of classes of each semester. In order to add a course, the student must attend class at the beginning of the semester and obtain the permission of the course instructor. The faculty reserves the right to refuse the addition of a course in the event that the course is full or if the student has not been attending class. Students adding a course must submit a Change of Registration/Add-Drop Form on-line or to the Department of Health Sciences no later than the end of the first week of class.

Withdrawal from a course (not the program) requires completion and submission of the appropriate withdrawal form. Please note that this will not result in an "incomplete" (I) grade. Withdrawal from a course after the third week of classes will result in a "W" being placed on the transcript. Students who neglect to complete the withdrawal form will receive a grade of "U" for the course.

## **TUITION AND FEES**

### **Schedule of Fees:**

\$495 Unit cost per semester hour (34 semester hours minimum for MSHS degree)  
\$ 40 Student body fee, first year  
\$ 20 Student body fee in subsequent years

### **Other Fees and Expenses:**

\$35 Application Fee  
\$30 Student-length whitecoat with CAHP arm patch  
\$13 Name Plate, to be worn on the white coat  
\$10 Lost ID Badge  
\$50. Continuous Registration Fee  
\$30. (per day) Late Registration Fee  
\$6. (each) Copy of Official Transcript  
\$21 (each) Rush Transcript, First Class Mail  
\$25 (each) Rush Transcript, Federal Express  
\$0.25 (per page) Copy of Student File Material  
\$200 Graduation Fee (assessed on candidates for graduation only)  
\$400 (annual) Western University Parking Permit Fee (optional)  
\$500 to \$800 Course materials, computer software and required texts.

### **Computer-related costs:**

When calculating costs, students must also include the costs, if any, associated with the following personal computer/laptop requirements: (a) Microsoft Office Suite (including Word, Excel, and PowerPoint). Mac users should have a comparable productivity suite, such as iWorks, (b) high-speed internet service, and (c) Windows Moviemaker (included on most PC computers or iMovie for Mac computers).

Tuition and fees are subject to change without notice upon approval by the Board of Trustees. All fees are mandatory for each student and are non-refundable. Obligation for payment in full of tuition and fees is due upon matriculation. The Department of Health Sciences Education can offer a schedule of divided payments for students demonstrating financial need (for more information contact the Bursar).

## **ACADEMIC POLICIES AND PROCEDURES**

### **Student Rights and Responsibilities:**

It is the responsibility of the student to be familiar with the contents of the catalog and to observe all policies and procedures relative to the completion of requirements for the graduate degree that were in effect at the time of initial enrollment in the Department of Health Sciences Education. A student may opt to complete the program of study and degree requirements described in the catalog at the time of his or her graduation, provided all revised policies of the later catalog are followed.

Students are required to keep the Registrar informed of their current address and telephone number by updating their information online.

### **Reasonable Academic Progress:**

All students are expected to make reasonable progress each year toward the degree objective. Full-time graduate students are considered to be making reasonable academic progress when they maintain an overall GPA of at least 3.0 and complete 12 semester hours during the calendar year. Both part-time and full-time students must complete the graduation requirements within the time limits described under Graduation Requirements. For part-time students, reasonable academic progress will be determined by the faculty on an annual basis upon consultation with the student.

**Course Load:**

Graduate students in the Master of Science in Health Sciences program are responsible for contacting the Office of Financial Aid to determine full-time equivalent enrollment requirements for their funding source. Due to the rigor of the graduate level, all students must receive permission from the Department Chair before enrolling in more than 9 units during any one semester.

**Academic Standing:**

An overall grade point average of 3.0 (B) must be maintained during graduate work undertaken at Western University of Health Sciences in order to qualify for advancement to candidacy. A 2.0 (C) grade earned in any class may be applied toward graduation only if the overall grade point average at the time of application for graduation continues at a minimum 3.0 (B) overall grade point average. Any grade below a 2.0 (C) may not be applied toward graduation. Any student whose grade point average falls below a 3.0 average will be placed on probation.

**Probation:**

Probation is defined as a period of time specified by the Dean of the College of Allied Health Professions during which the student's progress will be closely monitored by the Student Academic Progress Committee (SAPC), program faculty, and the department chairperson. A student will be recommended for probation and may be asked to appear at a SAPC meeting for any of the following reasons:

- Immediately upon receipt of a course grade of "U" in any course.
- A course or semester grade point average below 3.00
- A cumulative grade point average less than 3.00
- Seriously deficient ethical, professional or academic reasons

The MSHS Chairperson will render a written recommendation or invoke the College Conduct Committee to render a recommendation to the Dean of the College of Allied Health Professions regarding any student whose professional or personal conduct is deemed unsatisfactory. Professional and personal conduct includes, but is not limited to, attendance, cooperation with faculty, interest shown in assigned work, attitude towards fellow students and associates or toward personnel of the University or its affiliate organizations, approach to and interaction with patients, research subjects and all other colleagues, as well as personal appearance appropriate to the circumstances. The terms of probation for ethical, professional or personal misconduct will be specified at the time the student is placed on probation.

When a student is placed on probation, he/she will be notified in writing by the Dean of the College of Allied Health Professions, and the reasons will be stated. The written notification will be sent via mail, email or hand-delivered and acknowledged by signatures of the student and the Dean of the College of Allied Health Professions or his/her designee. A copy of the letter will be placed in the student's permanent file, and a copy sent to the Chairperson of the Student Academic Performance Committee. SAPC will ascertain when the terms of probation have been satisfied and recommend to the Dean that probation can be rescinded.

A student on probation may not serve as an officer of any official University club or organization and shall not engage in time-consuming extra-curricular activities. A MSHS student on probation may not participate in service learning projects at affiliate organizations or facilities in which there is not direct supervision by MSHS faculty (this includes HSCI 5999, 5302 and 5300).

Students are removed from probation under the following conditions:

- After one semester provided he/she has regained both a semester and cumulative GPA of at least 3.00
- When all "U" grades have been satisfactorily remediated.
- When the specified terms of probation for ethical, professional or personal conduct are met.

For information concerning the handling of infractions to the standards of professional conduct, the function of the Student Academic Performance Committee, the status of a student with an action pending, academic suspension, conduct suspension, summary suspension, dismissal and the student appeals process, all MSHS students are referred to the **General Academic Policies and Procedures** section of the University catalog.

**Remediation:**

Every effort will be made to give each student ample opportunity to demonstrate proficiency in each area of the academic programs. Remediation is to be regarded as a privilege that must be earned through active participation in the educational program as demonstrated by regular attendance, individual initiative, and utilization of available resources.

If a student receives a grade totaling less than 3.0 for any course or has a semester or cumulative GPA less than 3.0 that student will be reviewed by the MSHS faculty who will make a recommendation for remediation to the Allied Health Student Academic Performance Committee. Upon review, the SAPC will make a recommendation to the Dean regarding remediation of the course materials. The Dean of the College of Allied Health Professions renders the final approval allowing a student to remediate unsatisfactory performance.

In reviewing the student's academic deficiencies, the following guidelines shall be used:

1. Educational objectives underlie remedial teaching, and evaluation should be the same as the educational objectives that underlie regular courses in the curriculum. Where deemed appropriate, the SAPC, following consultation with the MSHS faculty, may recommend one or a combination of the following options
  - A. Take a comprehensive examination
  - B. Complete special projects or studies in the deficient area(s)
  - C. Repeat the course
  - D. Dismissal from the university
2. The grade achieved by remediation will be the grade recorded EXCEPT that the highest grade a student may earn on options (a) or (b) is a grade of "B". The grade achieved by remediation will be recorded on the transcript beneath the original grade.
3. The grade achieved by remediation of a course will be reviewed critically by the SAPC and the Dean of the College of Allied Health Professions. Failure to earn at least a "B" or "Cr" grade may result in dismissal from the University or repeating the course.
4. Decisions regarding remediation will be made on an individual basis after considering all pertinent circumstances in each case. The decision will be made by the Dean of the College of Allied Health Professions, based upon the recommendation of the SAPC. The SAPC will base its recommendation on the student's academic record and considerations based upon the MSHS faculty recommendation and the student consultation.
5. Any student who is required to remediate a course or a portion of a course will be notified in writing by the Dean at least two weeks prior to the date of remediation (or within two weeks of the close of the academic year, whichever comes first). Notification will be by mail, email or hand-delivered to the student and must be acknowledged with the signatures of the Dean of the College of Allied Health Professions or his/her designee, and the student.

**Tutorial Assistance Program:**

A Tutorial Assistance Program (TAP) has been established to assist students experiencing academic difficulty. Students will be recommended for this program by a faculty advisor or professor. Students may self-identify to TAP to receive assistance. The tutors will be chosen on the recommendation of the faculty in each discipline. For assistance, contact the Learning Enhancement and Academic Development Office.

**Standards of Academic Progress:**

Students whose performance falls below the minimum acceptable standards for any area of study will be notified of such deficiency by the instructor of the course or the Department Chair as soon as evidence of such sub-standard performance is available. Students whose performance is considered unacceptable as a result of not meeting the minimum requirements, or who are not able to bring their performance to the minimum standard within the allotted time in the academic term will be placed on probation. The duration and conditions of the probationary period will be recommended to the Dean by the Student Academic

Performance Committee. The Committee may recommend remedial study and/or repetition of a unit of study. This may result in extending the length of the program. See, also, section on Probation, in the **General Academic Policies and Procedures** section of the University Catalog.

#### **Dismissal Recommendations:**

A student may be subject to dismissal from the MSHS program for substandard academic or professional performance, as follows:

- a). A student who earns two or more unacceptable grades ("U" or NCR"), regardless of prior successful remediation of an unacceptable grade.
- b). Attaining a semester GPA below 3.0 where remediation is not an option.
- c). Violating the terms of probation.
- d). Any event that could result in either academic or professional probation for a student currently on academic or professional probation.

#### **Grading System/Grade Points:**

The following grading scale is applied to students enrolled in the Master of Science in Health Sciences program:

Percentage	Letter Grade	Grade Quality Points
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
Below 73	U	0.0
	CR - Credit	0
	NCR – No credit	0
	I - Incomplete	0
	M - Missing	0
	Au - Audit	0
	W - Withdrawal	0

Courses are rated at one semester hour for every 12 contact hours. The grade point average is calculated at the end of each semester as the sum of earned grade points divided by the sum of semester hours passed and failed. A cumulative grade point average will be calculated and posted on the transcript.

#### **Incomplete:**

An Incomplete grade ("I") will only be assigned to students whose professional commitments and/or personal responsibilities prevent him or her from completing the requirements of the course. A student may remove an incomplete by completing course requirements within the following academic semester. Should extenuating circumstances arise, the student may petition the instructor in writing for a one-semester extension to complete the course work. Prior to the end of the semester in which the original incomplete grade was assigned, the instructor must approve arrangements for the Incomplete and its removal. In the event a student does not complete the coursework by the end of the semester following the term for which the Incomplete was given, and who fails to obtain an extension of that time limit from the course instructor of record, the course grade will revert to a "U" or "NCR" and the student must register for and complete the entire course at another time. The instructor must certify any grade changes.

#### **Appealing a Course Grade:**

If a student believes there is just cause to dispute a grade for a course, the procedure is as follows:

Within five (5) days of receipt of the course grade, make an appointment with the course instructor(s) who issued the grade. Upon written request from the student, the course instructor(s) shall review the case with the student, and a decision shall be made by the course instructor to affirm or modify the grade.

Within ten (10) working days of the student's written request, the course instructor shall notify the student in writing of the decision. A copy of the Grade Change Form shall be sent to the student and the Department of Health Sciences Chairperson.

Within five (5) working days following written notification to the student regarding the instructor's decision, the student may appeal the decision in writing to the Department of Health Sciences chairperson. The appeal request must be accompanied by a narrative explaining the basis for the appeal. The narrative should fully explain the student's situation and substantiate the reason(s) for advocating a review of the prior decision of the instructor. The Department of Health Sciences Education Chairperson may grant an appeal only if a claim of (1) bias, (2) the appearance of new material and documentable evidence that was not available at the time of the instructor's decision, or (3) procedural error that unfairly affected the decision-making process is substantiated by the Chair. Upon written request from the student with a valid appeal rationale, the Department of Health Sciences Education Chairperson shall review the case and within seven (7) working days shall issue a decision in writing to the student, which may affirm, modify, or reverse the previous action of the instructor.

The Chairpersons decision is final in all course grade appeals except when the Chairperson is the official instructor of the course in question. In such a case, the student will direct his or her appeal to the Dean of the College of Allied Health Professions, following the same guidelines for an appeal to the Chairperson. The decision of the Dean in this instance is final.

The student may remain in class pending the outcome of appeals, except in cases of summary suspension or when the Provost, Vice Provost or the Dean of the College of Allied Health Professions has suspended the student or has otherwise determined that it is inappropriate for the student to remain in class.

#### **Declaration of Academic Track of Study:**

Students must elect their track of study within the MSHS degree program per the following schedule:

**Full-time Students:** By the end of the Add/Drop deadline in the second semester of full time enrollment.

**Part-time Students:** Upon completion of 9 semester units in Core Block I.

Forms may be accessed via Blackboard on the MSHS Electronic Student Center and are to be submitted to the Department for approval. Students must complete a total of 6 units within their selected track. Students may elect to change tracks, however these required units are non-transferrable between the tracks.

#### **Communication:**

All students will be assigned an email account by the Office of Student Affairs. The MSHS program relies heavily on email as a form of communication to students. It is essential that students check their email accounts daily.

#### **Advancement to Candidacy:**

All students must file an "Application for Advancement to Candidacy" upon completion of 80 percent, or 27 semester units, and no later than one semester prior to the completion of the degree requirements. The Master of Science in Health Sciences degree is awarded following satisfactory completion of all degree requirements. Names of candidates for graduation are presented to the Student Academic Progress Committee, the Dean of The College of Allied Health Professions, and to the Western University of Health Sciences faculty for approval.

#### **Final Integrative Exercises/Culminating Options**

#### **The Comprehensive Examination:**

All students are required to pass a comprehensive examination upon completion of all course requirements (excluding the final integrative exercise course) and prior to conferring of the MSHS degree. The examination is created and reviewed by a faculty committee of content experts. An average of the scores will be taken for a grade of pass/fail. All students must achieve a minimum score of 83% on the comprehensive examination. Any student scoring less than 83% may remediate the examination before the close of the following semester. A student may make a total of two attempts at passing the Comprehensive Examination. Any student who does not accomplish at least 83% on the second attempt may be dismissed from the program, and the degree of Master of Science in Health Sciences will not be awarded.

Students must complete a total of 3 units of one of the following culminating activities in the last semester of their curriculum:

- Independent Study
- Directed Field Experience
- Thesis/Special Project

Final Integrative Exercises begin with a mandatory orientation in the semester prior to registering for the culminating options course. The deadline for the oral defense of Culminating Options courses is April 30<sup>th</sup> of the graduation year.

#### **Independent Study Option:**

The Independent Study option allows students to pursue areas of particular interest under the supervision of the MSHS faculty. Students prepare a proposal of the work that they intend to conduct. Upon approval of the Department Chair and identification of appropriate faculty mentor(s) the student proceeds with their independent work. A variety of topics and projects are appropriate to meeting the requirements of this option and students are encouraged to discuss their areas of interest with the faculty well in advance of registering for this option. Students will prepare a formal paper including a literature review and present to the faculty who form the grading committee.

#### **Directed Field Experience Option:**

The Directed Field Experience Option provides an opportunity for practical training and application of the MSHS curriculum elements and to experience settings similar to ones that students might work in after graduation. Students electing this option are required to discuss their interests with the Department Chair as soon as possible to allow for appropriate collaboration with the targeted agency/organization. Under the supervision of the MSHS faculty and the designated field supervisor, students will design and implement learning objectives appropriate to the environment in which they are participating. A minimum of 40 hours must be spent in the field. Environments that provide exposure to all aspects of the professional responsibilities involved in that area are preferred. Students prepare a formal paper of the directed field experience and present it to the faculty who form the grading committee.

#### **Thesis/Special Project Option**

The student may elect to complete either (1) a thesis, (2) a special project. Students electing this option are required to discuss their interests with faculty as soon as possible to allow sufficient time to complete a successful thesis or special project. Much of the work required to complete this option is undertaken prior to registering for HSCI 5999 in the last semester of the curriculum in order to allow time for IRB approval, data collection and analysis. Upon completion of the thesis/special project the student must successfully complete an oral defense of her/his scholarly work.

A student who selects either the thesis or special project option is responsible for selecting a Thesis/Special Project Committee. This committee consists of a Committee Chair and one additional Committee Member. The candidate is responsible for obtaining and completing the Master of Science Committee form from the Chair of the Department of Health Sciences Education. Students are responsible for meeting with the Department of Health Sciences Education Chairperson, who will assist the student in obtaining a thesis/special project Committee Chairperson. The Committee Chairperson must be a full-time employee at Western University with a faculty appointment in the Department of Health Sciences Education. Students must also obtain at least one Committee Member. The committee member(s) may be a scholar from outside the University, but must be approved by the Department Chairperson.

#### **Commencement:**

All students who have completed graduation requirements must attend, in person, and participate in the commencement program at which time the degree is conferred. The President may approve exemptions to this requirement.

Candidates may be eligible to participate in the spring commencement exercises provided all degree requirements will be completed by December 31<sup>st</sup> of the same calendar year.

**Attendance:**

Course instructors reserve the right to determine the class attendance policy. May courses include participation as part of the overall grading of student performance. All students are also required to attend the following events:

- Orientation in early August of the first year of the program, usually spanning from Wednesday to Friday.
- Convocation and White Coat ceremonies on Saturday before the start of the fall semester of the first year of the program.
- The first session of every course taken throughout the entire program (Students in on-line courses must log into their course on the first day of the semester).
- Integrative Exercises/Culminating Options course orientation in the semester prior to the last anticipated semester in the program.
- Commencement exercises, usually held on a week day in the month of May.

**Time Limits:**

It is preferred that all requirement for the degree be completed in 3 academic years. All requirements for the degree must be fulfilled within five years from the date of initial registration. Extensions of this time limit may be granted through petition to the faculty.

**ACADEMIC PROGRAM****Degree Requirements****MASTER OF SCIENCE IN HEALTH SCIENCES**

(Health Professions Education and Community Health Promotion Career Tracks)

**Overview:**

The Master of Science in Health Sciences is designed to be completed in two academic years. Most students complete the Master of Science in Health Sciences degree in 2 - 3 years, although students may take up to 5 years to fulfill the 34-unit requirement for degree completion. A total of 25 credit hours of Core Master of Science in Health Sciences Courses are required of all MSHS candidates. Students must also complete 6 Career Track Units in one of two tracks: 1) Health Professions Education (HPE); or 2) Community Health Education (CHE). Students must also complete a minimum of 3 units in a Culminating Option consisting of applied scholarly work in either: 1) Independent Study, 2) Directed Field Experience, or, 3) Thesis/Special Project. In addition, students must successfully complete the Comprehensive Examination (see detailed information in the Academic Policies and Procedures section of this catalog).

**Required Core Courses**

*(Total of 25 Units)*

<b>Course number</b>	<b>Course number</b>	<b>Unit value</b>
HSCI 5020	Grant Proposal Writing	3
HSCI 5100	Learning Theories & Student Behaviors	3
HSCI 5106	Applied Statistics	3
HSCI 5108	Instructional Media	3
HSCI 5130	Foundations of the U.S. Health Care System	3
HSCI 5202	Human Resources & Fiscal Operations	3
HSCI 5204	Educational Leadership	3
HSCI 5206	Research & Program Evaluation Methods	3
HSCI 5110	Academic Roles & Scholarly Publications	1
<b>Total required core units:</b>		<b>25</b>

**Option #1: Health Professions Education (HPE) Track***(Total of 6 Units)*

<b>Course number</b>	<b>Course number</b>	<b>Unit value</b>
HSCI 5102	Principles of Instructional Design	3
HSCI 5306	Clinical Teaching	3
<b>Total required HPE Track units:</b>		<b>6</b>

**Option #2: Community Health Education (CHE) Track***(Total of 6 Units)*

<b>Course number</b>	<b>Course number</b>	<b>Unit value</b>
HSCI 5014	Community Health Education	3
HSCI 5018	Competencies for Community Health Educators	3
<b>Total required CHE Track units:</b>		<b>6</b>

**Culminating Options:***(Total of 3 Units: Choose one from the following)*

<b>Course number</b>	<b>Course Name</b>	<b>Units</b>
HSCI 5300	Directed Field Work	1-3*
HSCI 5302	Independent Study	1-3*
HSCI 5999	Thesis/Special Project	3
<b>Total required culminating units:</b>		<b>3</b>

\*Lower unit values are only available to students entering the program prior to Fall 2008.

**NMM/OMM Teaching Fellowship: MSHS degree track**

Osteopathic students in the Health Professions Education and Research in Osteopathic Medicine track will complete a total of 34 graduate units as follows:

**Required Core Courses***(Total of 22 Units)*

<b>Course number</b>	<b>Course number</b>	<b>Unit value</b>
HSCI 5020	Grant Proposal Writing	3
HSCI 5100	Learning Theories & Student Behaviors	3
HSCI 5106	Applied Statistics	3
HSCI 5108	Instructional Media	3
HSCI 5130	Foundations of the U.S. Health Care System	3
HSCI 5202	Human Resources & Fiscal Operations	3
HSCI 5206	Research & Program Evaluation Methods	3
HSCI 5110	Academic Roles & Scholarly Publications	1
<b>Total required core units:</b>		<b>22</b>

**Health Professions Education and Research in Osteopathic Medicine Track Courses***(Total of 9 Units)*

<b>Course number</b>	<b>Course number</b>	<b>Unit value</b>
HSCI 5400	Evidence-based Educational Research	3
HSCI 5401	Executive Skills and Curriculum Delivery	3
HSCI 5402	Leadership for Clinicians	3
<b>Total required HPE Track units:</b>		<b>9</b>

**Culminating Option:***(Total of 3 Units)*

Course number	Course Name	Units
HSCI 5999	Thesis/Special Project	3
<b>Total required culminating units:</b>		<b>3</b>

**COURSE DESCRIPTIONS**

The courses listed below comprise the courses in the Department of Health Sciences Education offered by Western University of Health Sciences.

**HSCI 5001 MSHS Electronic Student Center (0 credit hours)**

All students will maintain enrollment in the Bb based electronic student center throughout their tenure in the MSHS program. Students are responsible for logging in to check announcements and access various forms and references to assist them in their work in the department.

**HSCI 5014 Community Health Education (3 credit hours)***(Formerly Introduction to Community Health Education)*

This course provides an overview of the development and implementation of health education programs in the community and a variety of educational environments. It will provide an overview of present issues related to community health education, settings and roles for community health education, and professional skills and practice necessary to develop and implement effective community health education programs. Topics will include health education programs in government health agencies, voluntary health agencies, school settings, and university environments. Applications of learning theories, early intervention, media relations, and outreach in the 21<sup>st</sup> Century will be the focus of the course.

**HSCI 5018 Competencies for Community Health Educators (3 credit hours)***(Formerly Practicum in Community Health Education)*

The National Commission for Health Education Credentialing, Inc. (NCHEC) competencies for Community Health Educators are integrated throughout the MSHS curriculum. Designed to represent the fundamental skills underlying the practice of Community Health Education this course reviews the following 7 core areas of the profession in preparation for the national certification examination: 1) Assess Individual and Community Needs for Health Education; 2) Plan Health Education Strategies, Interventions, and Programs; 3) Implement Health Education Strategies, Interventions, and Programs; 4) Conduct Evaluation and Research Related to Health Education; 5) Administer Health Education Strategies, Interventions and Programs; 6) Serve as a Health Education Resource Person; 7) Communicate and Advocate for Health and Health Education.

**HSCI 5020 Grant Proposal Writing (3 credit hours)**

This course provides an overview of proposal writing, researching and funding strategies for special projects and general support, in all organizational settings. Participants will 1) develop a program or project plan; 2) select approaches and plan a program evaluation; and 3) prepare a proposal budget. Other topics include identifying appropriate grantors, reaching and establishing relationships with government, foundations and corporations. Students will complete a grant proposal that is suitable for submission upon completion of the course.

**HSCI 5100 Learning Theories and Student Behaviors (3 credit hours)***(Formerly Teaching and Learning Theory & Responding to Behaviors Affecting the Learning Environment)*

This course explores the major learning theories involved in health education. Emphasis is placed on the interrelationship between learning and teaching styles and their impact on the learning environment.

Students will focus on the recognition of common behaviors that contribute to the decline of the learning environment and develop strategies for maintaining and restoring a positive learning environment.

**HSCI 5102 Principles of Instructional Design (3 credit hours)***(Formerly Principles of Instructional Design and Clinical Teaching)*

This course is designed to provide the student with the skills needed to develop educational interventions. Emphasis is placed on teaching, learning and evaluating student performance. Students will conduct educational needs assessment, and data analysis. Writing instructional objectives, defining instructional strategies, designing learning activities, selecting media, test construction and evaluation of student learning complete the course objectives.

**HSCI 5306 Clinical Teaching (3 credit hours)***(Formerly Clinical Teaching and Evaluation)*

This course provides an overview of teaching in the clinical, laboratory, and practical settings. Utilization of teaching moments in unstructured and practical environments, teaching in the presence of patients and clients, principles of formative feedback and assessing competence vs. capacity are emphasized.

**HSCI 5106 Applied Statistics (3 credit hours)***(Formerly Research Methods I)*

This course is designed to prepare the student to understand and apply principles of statistics in the analysis and interpretation of quantitative data in health science research. Topics covered include, but are not limited to: 1) definitions of variables; 2) descriptive statistics; 3) measures of central tendency; 4) measures of dispersion; 5) hypothesis testing; 6) T-test, ANOVA, linear regression, Pearson Product, and Chi Square for descriptive and inferential statistics in the interpretation of data.

**HSCI 5108 Instructional Media (3 credit hours)***(Formerly Instructional Technology)*

Students will learn to formulate educational materials that are Americans with Disability Act (ADA) compliant and appropriate for varied and diverse audiences. Students will prepare to conduct community, classroom and online teaching through the effective application of print media, presentations, web formats, and audio/video tools.

**HSCI 5130 Foundation of the U.S. Health Care System (3 credit hours)**

This course explores the various components of the U.S. health care system, the scope of practice and the public, private and governmental influences affecting health care delivery. Students will understand the interrelationship between medical education and health care delivery systems. Primary, secondary, tertiary and alternative systems are examined. The survey of health service delivery will include the challenges encountered in balancing patient centered care with how the health care system functions as a business.

**HSCI 5202 Human Resources and Fiscal Operations (3 credit hours)***(Formerly Legal/Ethical Issues Affecting Health Care)*

This course examines the primary legal obligations and common ethical dilemmas involved in fiscal operations, management and administration. Topics such as recruitment, hiring, performance evaluations, risk management, purchasing, credentialing, development and implementation of policies will be covered. Additionally, budgeting, forecasting, compensation and the utilization of tools and methods of financial management and decision making will be applied. Communication strategies for dealing with difficult people, negotiation, conflict resolution, e-manners and public relations will be discussed.

**HSCI 5204 Educational Leadership (3 credit hours)***(Formerly Educational Administration/Leadership)*

This course will introduce the student to selected leadership theories and the development of mission, vision and core beliefs as tools for directing the work of organizations and programs. Strategic planning models and managing change effectively is underscored. Students will assess their leadership style(s) and utilize organizational dynamics to lead effective teams. The course will also prepare students to develop an integrated approach to key roles and responsibilities in health professions education.

**HSCI 5206 Research and Program Evaluation Methods (3 credit hours)**

*(Formerly Research Methods II & Evaluation Methods)*

This course provides students with an understanding of how productive research and evaluation questions are formulated, the critical distinction between empirical observation and inference, and factors governing the types of conclusions which can be drawn from empirical data. Issues such as sample size and type, correlations vs. experimental research designs, objective vs. subjective data are addressed. Special issues of qualitative research and single case studies are addressed. The material is presented with the primary intent of training the student to be discriminating consumers of research. Students are introduced to program evaluation, and design and evaluation of health education programs.

**HSCI 5110 Academic Roles & Scholarly Publications (1 credit hour)**

*(Formerly Scholarship of Teaching)*

This course is designed to provide students with information and skills to do well in an academic career, focusing on aspects of research, teaching and service. It will provide students with information on academic roles such as tenure, promotion, portfolios, and resumes/curriculum vitae (CV). This course will also cover the process of scholarly publications including: 1) poster/conference presentation; 2) writing articles; 3) dealing with rejection from publishers and revising/resubmitting, 4) writing other manuscripts, e.g., book chapters and books; and 4) issues related to co-authorship.

**HSCI 5300 Directed Field Experience (CR/NCR) (3 credit hours)**

This course is a practicum experience designed to provide an opportunity to experience settings similar to ones that students might work in after graduation. Under the supervision of MSHS faculty and the designated field supervisor, students will design and implement instruction appropriate to the learning environment in which they are participating. A minimum of 40 contact hours must be spent in the field. Environments that provide exposure to all aspects of the professional responsibilities involved in that area are preferred. Students prepare a formal paper of the directed field experience and present it to the faculty.

**HSCI 5302 Independent Study (CR/NCR) (3 credit hours)**

This course allows students to pursue areas of particular interest under the supervision of the MSHS faculty. Students will prepare a proposal of the work that they intend to conduct. Upon approval of the Department Chair and identification of appropriate faculty mentor(s) the student will proceed with their independent work. Students will prepare a formal paper including a literature review and present to the faculty.

**HSCI 5400 Evidence-based Educational Research (3 credit hours)**

Prerequisite: Acceptance into the NMM/OMM Fellowship. This course provides the student with a combination of quantitative and qualitative methods in reading, understanding, critiquing and conducting research. Experiences and literature review are utilized to demonstrate best practices in educational research. Evidence based enquiry is emphasized by two means: (1) the importance of data driven decision making and (2) explicit guidelines for conducting empirical studies.

**HSCI 5401 Executive Skills and Curriculum Delivery (3 credit hours)**

Prerequisite: Acceptance into the NMM/OMM Fellowship. Under the direction of the MSHS faculty and the OMM faculty in the College of Osteopathic Medicine, students will design and implement learning activities that constitute the core academic curriculum of osteopathic principles and practices. Students will demonstrate competence in lecturing and teaching, course management, production of educational materials, test construction, test assessment, student performance evaluation, develop and conduct clinical and laboratory instruction, master the components necessary for teaching clinical skills in the psychomotor domain, effectively assess competence in inter-rater reliability, and facilitate journal club activities. In addition, students will participate in ongoing delivery and assessment of the OMM curriculum and formulate recommendations for program development.

**HSCI 5402 Leadership for Clinicians (3 credit hours)**

Prerequisite: Acceptance into the NMM/OMM Fellowship. Under the direction of the MSHS faculty and the OMM faculty of the College of Osteopathic Medicine, students will fulfill leadership roles in the delivery of the OMM curriculum. Students will recognize the challenge of balancing the business of health

professions education with patient centered care and learner centered instruction, demonstrate executive and problem solving skills germane to the daily operation of a teaching unit, allocate department resources effectively, and make recommendations that enhance the delivery of an academic within the health professions.

**HSCI 5999 Thesis/Special Project (CR/NCR) (3 credit hours)**

This course allows the student to prepare and complete a scholarly thesis or special project under the supervision of an assigned faculty member. Both Thesis and Special Project follow the traditional five-chapter format. The Special Project option does not involve original research and usually produces a product that is included as attachments to the formal paper. Students are encouraged to discuss areas of interest at least one semester prior to registering for HSCI 5999.

**HONORS AND AWARDS**

The following awards are presented annually at the Honors Day ceremony that is typically held in June.

1. President's Society Award
2. Guy M. Allmond Scholarship Fund
3. Linda Fox Memorial Endowment Fund
4. Arthur Madorsky, MD Memorial Scholarship Award
5. Who's Who among Students in American Universities and Colleges Nominations

The following awards are presented annually at the University's commencement dinner that is typically held in May:

1. Alumni Memorial Award
2. Don and Jean Griva Memorial Award
3. Outstanding Thesis/Special Project Award
4. Bertha Oliver Memorial Award
5. Dean's Award

**MSHS Program Academic Calendar**  
**2010-2011**

**Fall Semester**

June 14, 2010	Fri., Jan. 7, 2011
Fall application deadline	Last day to add
Wed.-Fri., Aug. 4-6, 2010	Mon., Jan. 17, 2011
Orientation	Martin Luther King Day
Sat., Aug. 7, 2010	Fri., Jan. 21, 2011
Convocation	Last day to drop
Mon., Aug. 9, 2010	Mon., Feb. 21, 2011
Classes begin/tuition due	President's Day
Fri., Aug. 27, 2010	Fri., Apr. 22, 2011
Last day to add /drop	Spring classes end
Mon., Sept. 6, 2010	Fri., Apr. 29, 2011
Labor Day	Last day for oral defense & comprehensive examinations for May 2011 graduates
Mon., Oct. 11, 2010	<b>Summer Session</b>
Columbus Day	Mon., May 2, 2011
Thurs., Oct. 15, 2010	Summer classes begin/tuition due
Spring application deadline	
Fri., Nov. 12, 2010	Fri., May 6, 2011
Last day for oral defense or	Last day to add
Comprehensive exam for '11 graduates	
Fri. Nov. 19, 2010	Thurs., May 19, 2011
Fall classes end	Commencement - Mandatory
Wed., Nov. 24, 2010	
Last day to file advancement to	Fri., May 20, 2011
Candidacy for May 2011 graduates	Last day to add/drop
	June 15, 2011
	Fall application deadline

**Spring Semester**

Mon., Jan. 3, 2011	Fri., June 24, 2011
Spring classes begin/tuition due	Summer classes end
	July 2011
	Summer Break

# **COLLEGE OF ALLIED HEALTH PROFESSIONS**

## **Doctor of Physical Therapy Program**

### **Western University of Health Sciences Department of Physical Therapy Education**

#### **ABOUT THE DOCTOR OF PHYSICAL THERAPY PROGRAM**

The Doctor of Physical Therapy (DPT) program is designed to give students a didactic and clinical education experience that provides current knowledge and skills necessary to practice physical therapy in any clinical setting. The courses included in this curriculum reflect and are consistent with the patient/client management model described in the *Guide to Physical Therapist Practice* and the curricular content for professional education in *A Normative Model of Physical Therapist Professional Education: Version 2004*.

The DPT degree is based on the new and expanding role of the physical therapist. Changes are occurring in the field and the future role will include practice in primary care and direct access. As such, physical therapists will be expected to perform medical screening, have a stronger knowledge base of the medical and clinical sciences, and be able to perform higher level problem-solving and clinical decision-making.

In addition to the entry level doctoral degree, the program offers the DPT degree to licensed physical therapists. The clinician who holds a bachelor or master's degree in physical therapy may enter the DPT program as a student with advanced standing to complete requirements for the DPT degree. The required courses will depend upon the student's previous academic coursework and clinical/professional experiences. The student with advanced standing may take many courses online with two to three weekends on campus. The mission and program goals are the same for the first professional and advanced standing students. Policies related to admissions, registration, and tuition and fees are different for students entering with advanced standing. A description of the policies for students with advanced standing is provided separately at the end of the section on the first professional DPT program. All other policies are the same for both first professional DPT students and those admitted to the DPT program with advanced standing.

#### **MISSION OF THE PROGRAM**

The mission of the Department of Physical Therapy Education supports the mission of Western University of Health Sciences by educating culturally competent and reflective practitioners who are committed to life-long learning, scientific inquiry, critical thinking, and evidenced based practice to meet the healthcare needs of the community.

#### **DEPARTMENTAL/PROGRAM GOALS**

The graduate of the DPT program will be a mature individual whose professional education is based on a foundation of the requisite preparation in the biological, behavioral and social sciences, and humanities. The graduate will have the necessary knowledge, skills and attitudes to function as a clinician generalist; will have an appreciation for the value of the research process; and will be a responsible member of the community and the profession. The goal of the Department of Physical Therapy Education and its DPT program is to achieve the following outcomes:

1. Provide educational experiences that facilitate critical thinking and clinical decision making skills.
2. Provide educational experiences for current practice in patient care, community service, research and education.
3. Prepare students to demonstrate interpersonal and communication skills in a variety of clinical settings and across cultures.
4. Provide educational experiences that facilitate and encourage interdisciplinary practice.
5. Encourage engagement in ethical behaviors and attitudes that result in collaborative relationships.
6. Encourage engagement in humanistic behaviors and attitudes that result in productive professional relationships.
7. Educate and model for graduates and students life-long learning and advances in current practice in patient care, community service, research, and education.
8. Prepare students to practice as evidence-based clinicians.

## **DESCRIPTION OF THE DPT PROGRAM**

The curriculum for the Doctor of Physical Therapy (DPT) Program will prepare the graduate to be a physical therapist generalist. The curriculum consists of nine semesters, each having a particular emphasis.

### **Curriculum Design for Students Entering in 2013**

The DPT program is three years in length. Didactic education includes interactive classroom instruction and lab practice and training. In addition, classes utilize standardized cases, simulation labs, and actual patient experiences to prepare students for their clinical rotations. The clinical education experiences occur in a variety of clinical settings and occur each year of the curriculum. Year I consists of one 18-week semester, one 19-week semester (which includes a two-week clinical experience and a one-week spring break), and one 9-week semester. Year II consists of two 18-week semesters and one 12-week clinical internship. Year III consists of one 18-week semester, two 12-week clinical internships and a 4-week final semester.

DPT students will complete their education in August, but will participate in the University-wide graduation held in the prior May. State licensure examinations are computerized and can be taken following completion of the program. The faculty includes scholars, researchers, administrators, and clinicians from the professions of physical therapy, psychology, education, osteopathic medicine, medicine and the basic biological sciences. All faculty are committed to the preparation of the Doctor of Physical Therapy professional who will be well versed in all aspects of physical therapy and dedicated to their profession and the patients they serve.

### **Program Ability Based Outcomes**

Upon completion of the DPT program, students will be able to:

1. Demonstrate and facilitate professional behaviors, attitudes and effective communication skills appropriate for a physical therapist.
2. Apply problem-solving strategies and critical thinking skills in patient care.
3. Demonstrate accurate self-assessment and participation in life-long learning.
4. Apply principles of evidence based practice in clinical decision making and the delivery of patient care.
5. Apply principles of teaching and learning in clinical practice and professional interaction.
6. Identify the physical therapy needs of patients.
7. Design and implement a physical therapy plan of care.
8. Re-assess and modify physical therapy plans of care in response to assessment outcomes.
9. Demonstrate safe, ethical and legal practice of physical therapy.
10. Engage in and promote interdisciplinary practice.
11. Participate in professional organizations and activities.

## **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

A candidate for admission to the DPT program must have the use of certain sensory and motor functions to permit them to carry out the activities described in the sections that follow. Graduation from the program signifies that the individual is prepared for entry into clinical practice. Therefore, it follows that graduates must have the knowledge and skills needed to function in a broad variety of clinical situations and to render a wide spectrum of physical therapy evaluation and treatment techniques. The candidate and student must be able to consistently, quickly, and accurately integrate all information received by whatever sense(s) are employed. Also, they must have the intellectual ability to learn, integrate, analyze, and synthesize data.

Examples of essential functions of a physical therapist include, but are not limited to:

- a. Use of appropriate verbal, non-verbal, and written communication with patients, families, and others.
- b. Determination of the physical therapy needs of any patient with potential movement dysfunction.
- c. Safe, reliable, and efficient performance of appropriate physical therapy procedures used to assess the function of the movement system.
- d. Performance of treatment procedures in a manner that is appropriate to the patient's status and desired goals.

A candidate for the DPT ordinarily must have abilities and skills of five varieties including (1) observation; (2) communication; (3) motor; (4) intellectual, conceptual, integrative and quantitative; and (5) behavioral and social. Where technological assistance is available in the program, it may be permitted for disabilities in certain

areas. Under all circumstances, a candidate should be able to perform all physical therapist functions at entry level competency in a reasonably independent, timely manner.

1. **Observation:** Candidates and students ordinarily must have sufficient vision to be able to observe demonstrations and laboratory exercises. They must be able to observe a client accurately at a distance and close at hand.
2. **Communication:** Candidates and students ordinarily must be able to communicate with clients and colleagues. They should be able to hear, but if technological compensation is available, it may be permitted for some people with disabilities in this area. Candidates and students must be able to read, write, and communicate verbally in English.
3. **Motor:** Candidates and students ordinarily should have sufficient motor function such that they are able to execute movements reasonably required to provide assessment and physical therapy treatment procedures to clients.

Examples of reasonable required assessment procedures include, but are not limited to:

- a. Functional abilities
- b. Pain
- c. Gait
- d. Strength
- e. Joint motion and stability
- f. Balance
- g. Movement patterns

Examples of reasonably required treatment procedures include:

- a. Balance training
- b. Exercise techniques
- c. Gait training
- d. Activities of daily living training and functional activities
- e. Manual therapy

These actions require coordination of both gross and fine muscular movements, equilibrium and functional use of the senses of touch and vision. The role of the physical therapist often requires upright posture with sufficient upper and lower extremity strength, as well as overall body strength; therefore, individuals with significant limitations in these areas would be unlikely to succeed.

4. **Intellectual, Conceptual, Integrative, and Quantitative Abilities:** These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, the critical intellectual skill demanded of a physical therapist, requires all of these intellectual abilities. In addition, candidates and students should be able to comprehend three-dimensional relationships and understand the spatial relationships of structures.
5. **Behavioral and Social Abilities:** Candidates and students must possess the emotional health required for full utilization of the intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the assessment and care of clients, and the development of mature, sensitive, and effective relationships with clients. Candidates and students must be able to tolerate physically taxing workloads, adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of many clients. Compassion, integrity, concern for others, interpersonal skills, interest, and motivation are all personal qualities to be assessed during the admissions and educational processes.

The DPT program, along with all other programs at Western University of Health Sciences, shares a commitment to develop creative ways of opening the DPT curriculum to competitive, qualified individuals with disabilities. In doing so, however, the DPT program must maintain the integrity of its curriculum and preserve those elements deemed essential to educating candidates to become effective physical therapists.

## **ADMISSIONS POLICIES AND PROCEDURES-ENTRY LEVEL**

Western University will accept applications for admission from all qualified candidates for the first professional DPT degree. Western University participates in the Physical Therapist Centralized Application Service (PTCAS) for its admissions process. A primary application must be filed with the PTCAS and a secondary application filed with Western University, both subject to designated deadlines.

## **Application Requirements**

The applicant must have earned a BA or BS degree from a regionally accredited (exceptions will be made on a case by case basis) college or university by the time he/she matriculates in the DPT program.

The DPT program is looking for students who come from a broad, liberal arts background with the baccalaureate degree being obtained in any field of study other than physical therapy. A high degree of intellectual curiosity and accomplishment along with excellent verbal and written communication skills need to be evident in the applicant. The graduate of Western University will be able to problem-solve in clinical practice and will also be able to communicate appropriately with the client/patient and other health care providers about the client/patient care plan.

### **1. Prerequisite Courses**

- English Composition - 1 course (minimum of 3 semester units or 4 quarter units)
- Psychology - 2 courses, at least one course must be from the Psychology Department (total of 6 semester or 8 quarter units)
- Statistics - 1 course (3 semester units or 4 quarter units)
- Human Anatomy - 1 course of lecture and lab (minimum of 4 semester units or 6 quarter units)
- Human Physiology - 1 course of lecture and lab (minimum of 4 semester units or 6 quarter units)
- General Chemistry – one year (a full course sequence) of lecture and lab (8 semester units or 12 quarter units)
- Physics – one year (a full course sequence) of lecture and lab – emphasis on mechanics, light, heat, sound, and electricity (8 semester units or 12 quarter units)

All science courses must include laboratories and cannot be at an "introductory" level.

Anatomy and Physiology must be taken from the Anatomy, Physiology, A&P, Biology or Zoology department. The Anatomy and Physiology must be "human." Combined Anatomy and Physiology courses will be considered only if a combined course sequence (2 semesters or 2 quarters) is completed.

In addition the following courses are recommended to enhance success in the program:

- Oral communication skills
- Computer literacy
- General biology
- Microbiology
- Kinesiology/biomechanics
- Exercise Physiology
- Nutrition
- Human/Child Development
- Additional Psychology courses

Grades of "C" or better are required in each prerequisite course. A grade of "C-" or less in any prerequisite course is not acceptable. Only one prerequisite course may be taken on an advanced-placement pass/no pass or credit/no credit basis. For courses completed in California, all science prerequisites must be University of California (UC) or California State University (CSU) transferable. Advanced Placement (AP) may be accepted for one prerequisite course; this will not be calculated into the GPA.

No more than one science and one non-science prerequisite courses can be in progress after the Fall term prior to matriculation. All prerequisite courses must be completed by the end of the Spring semester/quarter prior to matriculation. Please submit official transcripts directly to the Admissions Office upon completion of coursework in progress. Final transcripts and/or final grades (including degree verification) for all coursework in progress must be received prior to orientation in early August.

### **2. Prerequisite and Overall GPAs**

The minimum overall GPA and the minimum GPA for all prerequisite courses must each be 2.8 on a 4-point scale. To be competitive, these GPA's should be consistent with current incoming class averages, which are above 3.0 on a 4-point scale.

### **3. Graduate Record Examination (GRE)**

The GRE scores are required. Currently there are no minimum score requirements and only the GRE General Exam results are acceptable.

### **4. Clinical Experience**

A minimum of 100 hours of volunteer or paid work experience in two or more physical therapy facilities and/or clinical settings is required, with a minimum of 40 hours per setting. Competitive applicants will have 40 or more hours in an in-patient clinical setting.

5. **Recommendations**

Three satisfactory recommendations are required as part of the admissions application. One is required from a supervising physical therapist and one from a college course instructor. The third letter may be from either a supervising physical therapist or college course instructor; a physical therapist is preferred.

6. **Interviews**

Qualified applicants will be invited to interview.

Note: The Western University DPT program is committed to admitting individuals with a disability provided they meet all of the qualifications listed above as well as the technical guidelines listed in the previous section with reasonable accommodations.

**Application Procedures and Deadlines**

The DPT program has an August orientation and matriculation date. The application submission deadline is November 16<sup>th</sup> of the year of anticipated enrollment. Students with complete application packets are encouraged to apply early. Applicants who do not meet the criteria by the time of matriculation and wish to reapply for the following year will be considered with the new applicant pool.

A primary application must be submitted to PTCAS with a response to the three designated personal essay questions contained therein. Three letters of recommendation forms are available to download, print, and have the completed copies sent to PTCAS, along with official transcripts from all colleges attended. To initiate the primary application with PTCAS, go to their website at: [www.ptcas.org](http://www.ptcas.org).

The applicant must also submit the secondary application with a non-refundable application fee of \$60, GRE scores, and the signed work/volunteer experience forms from PTCAS directly to Western University. To request an information brochure and/or an application, contact the Admissions Office at:

Office of Admissions  
Western University of Health Sciences  
309 East Second Street  
Pomona, CA 91766-1854  
(909) 469-5541  
<http://prospective.westernu.edu/physical-therapy-entry/apply>

After receipt of the applicant's packet from PTCAS and the secondary application, the Admissions Office will review and evaluate the applicant's entire submission.

Applicants who wish to use coursework completed outside of the United States must submit their transcripts for evaluation to World Education Services, Josef Silny and Associates, Educational Credential Evaluators, Inc., or International Education Research Foundation, Inc. A course-by-course evaluation is required and all coursework must be designated as undergraduate, graduate or professional. Western University will only honor evaluations from the above services. The evaluation must be included with the application packet.

The Admissions Committee reserves the right to determine which potential candidates will be invited for personal interviews. These interviews are designed to allow the applicant to learn more about Western University's DPT program as well as allow the Admissions Committee to learn about the applicant. The interview process is conducted at various times throughout the admissions cycle.

Decisions of the Admissions Committee regarding the admission of applicants to the Doctor of Physical Therapy program are final.

**REGISTRATION**

DPT students are required to register as directed by the Registrar. Failure to register may be grounds for dismissal. Assessed tuition and fees and all prior debts must be paid in full on or before the registration deadline each academic year. Matriculation is subject to satisfactory completion of all academic requirements and payment of all outstanding debts to the University. Prior to initial program registration, the receipt of final transcripts for all college coursework, a physical examination, and immunizations as outlined on the physical examination form, are additional requirements for incoming students. Attendance at Orientation is mandatory for incoming first-year students.

## **CONTINUING EDUCATION AND NON-DEGREE STUDENTS**

An applicant holding a bachelor's or master's degree in Physical Therapy and a license to practice in the United States, who does not wish to pursue the DPT degree at Western University at the present time, but who wishes to engage in graduate study for personal development, continuing education, or other professional development needs, may consider enrollment as a non-degree student. A limited number of applicants may enroll in any DPT course as non-degree students, depending on space availability. Application must be made directly to the Chair of the Department of Physical Therapy Education. The department registration procedures must be followed. Admission as a non-degree student does not assure acceptance as a degree candidate, should the student at a later time wish to change enrollment status. An unlimited number of credit hours may be completed while in non-degree status. Should the student wish to change enrollment status, the usual admissions procedures must be followed. No more than two courses taken as a non-degree student at Western University can be transferred into the DPT degree program. A minimum of 12 units, including the two prior courses (if applicable) must be completed after acceptance to the program to meet degree requirements. All criteria for admissions to the DPT program as a student with advanced standing and the admitted student's degree requirements are based on the catalog in place at the time of application and acceptance to the program. Questions about transferring from non-degree to degree status should be directed to the Chair, Department of Physical Therapy Education.

## **TUITION AND FEES**

By action of the Board of Trustees, the tuition and fees effective July 1, 2010, (subject to change) are as follows:

*\$500	Tuition Deposit for incoming students (Payable two weeks after acceptance)
**\$500	Enrollment Deposit (Students returning from leave of absence only - Due 90 days prior to return date stated in the student's intent to return letter.)
\$32,050	Total Tuition Annual

\$40 Student Body Fee covers student council, social activities, and public relations.

\*Upon matriculation, the entire \$500 tuition deposit is applied toward the total tuition.

\*\*For accepted candidates who are students returning from leave of absence of a year or more in duration, a \$500 enrollment deposit is required 90 days prior to the date of re-enrollment. The deposit is nonrefundable and is credited toward tuition upon re-enrollment.

Tuition and fees are subject to change without notice upon approval by the Board of Trustees. All the above-listed fees are mandatory for each student and are nonrefundable.

### **Other Fees and Expenses**

\$1,300	Required and Recommended Texts (approximate cost per year)
\$200	Graduation Fee (assessed on candidates for graduation only)
\$400	(annual) Western University Parking Permit Fee
\$60	Criminal Background Investigation (approx.)
\$40	Drug Screen (approx.)
\$30	(per day) Late Registration Fee
\$40	Lost Locker Key
\$10	Lost ID Badge
\$6	(each) Copy of Official Transcript
\$21	(each) Rush Transcript, First Class Mail
\$25	(each) Rush Transcript, Federal Express
\$0.25 (replacement cost)	(per page) Copy of Student File Material Breakage Fee

## **ACADEMIC REQUIREMENTS**

### **Academic Advisement Policy**

Students will be assigned a faculty advisor upon matriculation. Advisement by faculty should be viewed by the student as a part of the academic process. If either the student or faculty member does not find the relationship helpful, either is free to seek a change. This request should be made to the Department Chair.

It is the student's responsibility to meet periodically with his/her advisor. A student on probation must meet with his/her faculty advisor at least once a month.

### **Standards of Academic Performance**

For those students who begin matriculating in Fall 2009 and afterward, good academic standing implies that a student maintains a minimum GPA of 2.8 or higher. For those students already enrolled in the program who began matriculation prior to Fall 2009, good academic standing implies that a student maintains a minimum GPA of 2.7 or higher.

All grading and evaluation is based on the student's ability to attain the competencies within the objectives outlined for each area of study.

A student whose performance falls below the minimum acceptable standard(s) for any area of study will be notified of such deficiency by the instructor of the course and Department Chair as soon as evidence of such substandard performance is available.

### **Grade Scale/Grade Points/Class Ranking**

The following academic standards and grading scale applies to students enrolled in the Physical Therapy Program:

<u>Percentage</u>	<u>Letter Grade</u>	<u>Grade Points</u>
93 - 100	A      Excellent	4.0
90 - 92	A-     Excellent	3.7
87 - 89	B+    Good	3.3
83 - 86	B      Good	3.0
80 - 82	B-    Good	2.7
77 - 79	*C+   Passing, but below required overall GPA	2.3
73 - 76	*C     Passing, but below required overall GPA	2.0
Below 73	U      Unsatisfactory	0
	NCr   No Credit	0
	Cr     Credit	0
	I      Incomplete	0
	M      Missing	0
	Au    Audit	0
	W      Withdrawal	0

\* A "C" or "C+" grade in and of itself is a passing grade. However, a "C" or "C+" grade is below the required overall grade point average of 2.8 for student who begin matriculation in Fall 2009 and 2.7 for students who began matriculation prior to Fall 2009. If the number of "C's" and "C+'s" totals an amount to bring the student's GPA to below 2.8 for students beginning matriculation in 2009 or 2.7 for students who began matriculation prior to Fall 2009, then the performance, based on professional expectations, is considered unsatisfactory.

#### Clinical Education/Education Experience Grades:

CR	Satisfactory Performance/Completion of clinical education assignment
NCR	Unsatisfactory Performance/Completion of clinical education assignment

The class ranking is computed at the end of each graded semester, based upon overall GPA.

### **Incomplete**

A student may be assigned an Incomplete grade ("I") only when a personal situation arises during a trimester/semester that prevents him/her from completing the course requirements or clinical experience. A student must remove an Incomplete by fulfilling all course requirements by the end of the following trimester/semester. An Incomplete that is not removed will become a "U" grade.

In the event that the student receives an "I" in a clinical experience, arrangements to fulfill the requirements will be made by the Director of Clinical Education (DCE) in consultation with the student. Arrangements for the Incomplete and its removal must be approved by the course instructor/DCE prior to the end of the trimester/semester in which the original incomplete grade was assigned. An Incomplete that is not removed will become a "NCR" grade.

### **Credit Hours**

Courses are rated at one credit hour for each 15 hours of lecture or 30 hours of laboratory and/or practice sessions. Credit hours of 1.0 will be assigned for every two weeks of clinical education experience.

A cumulative grade point average will be calculated and posted on the transcript. Class ranking is available upon request in the Registrar's Office.

The grade point average will be calculated at the end of each trimester/semester. If a course is repeated, only the last grade earned enters into the computation of the grade point average, but the original grade remains on the student's transcript.

Official grades are turned in to the Registrar from the Dean, College of Allied Health Professions, at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at <http://www.westernu.edu/registrar>.

No course grade will be changed unless the instructor certifies in writing to the Registrar that an error in computing or recording the grade occurred. If the student believes there is just cause to dispute a grade for a course, the procedure is as follows:

1. If, following distribution of unofficial transcripts on BanWeb, the student has reason to dispute the grade, it should be done in writing within five (5) working days to the Department of Physical Therapy Education Chair. Upon written request from the student, the Department Chair shall review the case with the instructor(s) and a decision shall be made by the course instructor(s) to affirm or modify the grade. Within seven (7) working days the Department Chair shall notify the student in writing of the decision. A copy of the letter shall be sent to the appropriate faculty member(s). The faculty member(s) has the sole responsibility to make the official grade change.
2. If the student is not satisfied with the outcome of the grade dispute procedure to the Department Chair, the student may then appeal in writing to the Dean of the College of Allied Health Professions within five (5) working days. The Dean of the College of Allied Health Professions shall review the case with the student, Chair of the Department of Physical Therapy Education and the course instructor(s) and a decision shall be made by the course instructor(s) to affirm or modify the grade. Within seven (7) working days the Dean shall notify the student in writing of the decision. A copy of the letter shall be sent to the appropriate faculty member(s) and Chair. The faculty member(s) has the sole responsibility to make the official grade change.

### **Evaluation**

- a. General: The program trimesters/semesters are designed so that students' work toward achievement of competencies is measured by written and practical examinations and by evaluations of clinical performance and professional development. Specific behavioral objectives are defined for each program component to assist the students and the faculty members in evaluating the degree of attainment of the objectives throughout the 36-month curriculum.
- b. Evaluation Methods: Overall student performance is evaluated during each phase using one or a combination of the following methods:
  1. Written examinations: Written examinations will vary based on the content of the individual course. A combination of multiple choice, matching, true/false, short answer, essay and patient problem solving questions are used.
  2. Practical or Laboratory Examinations: In selected courses, students will be observed performing components of physical therapy practice activities on lab exams. They also may be asked to

- "problem solve" based on a patient database, and in some cases students will be videotaped for evaluation and/or self-evaluation. Audio-visual media may also be used in examinations.
3. Student Presentations: Students may be asked to orally present individual or group projects, patient cases, research papers, etc. These oral presentations may or may not be accompanied by a written report.
  4. Written reports: At various times, students will be evaluated on written reports of assigned or selected topics, special projects, patient care documentation, evaluations, treatment plans and home programs.
  5. Clinical Evaluations: Supervising Clinical Instructors are asked to assess the student's level of attainment of competencies related to selected parameters within the domains of knowledge, skills and attitudes, and to evaluate the student's overall performance while on clinical education experiences. The Clinical Performance Instrument (CPI), which incorporates physical therapist clinical performance criteria, is one of the clinical evaluations utilized. Students are responsible for completing the requirements for use of the PT CPI Web prior to starting a 12-week clinical experience and ensuring that the PT CPI is completed and all supporting documents are returned to the Director of Clinical Education after each clinical experience. CCCE/CI's are encouraged to discuss the student's performance and progress throughout the clinical assignment and to discuss the final evaluation prior to completion of the experience. The CI will indicate whether the clinical experience was successful in accordance with designated objectives, or was unsuccessful in meeting clinical objectives. While the CI may recommend success or failure of the clinical experience, the Director of Clinical Education determines and administers the actual course grade.
- c. Grade Reports: Final grade reports are issued at the completion of each trimester/semester and will be available on BanWeb. Due to the nature of the curriculum, trimester/semester completion dates may not coincide with traditional grading periods. In some courses when final grades are not available at grade reporting time, a grade of "M" (Missing) is submitted to the Registrar in lieu of the course grade. "M" grades are entered on the grade reports and are converted to student achieved grades at the earliest possible opportunity. An up-to-date summary of student performance is maintained in the Department Office and is available to each student for review.
- d. Review of Examinations: Examinations are graded as soon as possible and are kept on file for student review. Student performance in clinical courses is monitored closely by the Director of Clinical Education. Students whose performance in any portion of the curriculum is determined to be unsatisfactory are notified of such substandard performance as soon as it can be determined.

### **Professional Performance**

- a. Ability-based Assessment: The faculty supports the concept of development of professional behaviors throughout the program. The behaviors that have been identified include: (1) commitment to learning; (2) interpersonal skills; (3) communication skills; (4) effective use of time; (5) use of constructive feedback; (6) problem solving; (7) professionalism; (8) responsibility; (9) critical thinking; and (10) stress management.

Professional behavior is vital to the success of each student, the Western University Physical Therapy program, and the physical therapy profession. The process of becoming an effective physical therapist involves attaining competency in professional knowledge, skill, and behavior. Thus, the ten Generic Abilities that exemplify the professional behaviors valued by the physical therapy profession will be used as a guide throughout this program. To facilitate development of competency in the Generic Abilities, the faculty will provide the students opportunities to practice them and provide formal and informal feedback throughout the program. The student will be responsible for ongoing self-assessment and for seeking feedback from faculty, clinical instructors, and fellow students.

Students' progress through the program is based upon successful completion of expected competencies and demonstration of expected professional behavior and attitudes. At the completion of each trimester/semester/year of the program, before the student is allowed to progress to the next trimester/semester/year, the student's record of achievement is reviewed by the faculty. The quality of professional behavior expected of Western University DPT graduates is exemplified by the Generic Abilities and the three levels of associated behavioral criteria. Satisfactory progress is demonstrated by exhibiting beginning-level criteria by the end of the first year, developing-level criteria by the end of the second year, and entry-level criteria by the end of the final clinical internship.

The faculty determines if the student has demonstrated the knowledge, skills, and attitudes necessary to be eligible for progress for the next trimester/semester/year. In special instances, the faculty may be convened at other than scheduled times to consider cases of unusual circumstances, such as probation or dismissal.

b. Attendance: Students are expected to attend all scheduled activities.

In the event of an absence or tardiness, it is the student's professional responsibility to notify the Department Secretary, who will inform the appropriate faculty. If an absence, lateness, or early departure is anticipated, it is considered a professional courtesy to discuss this with the appropriate course instructor(s) at the earliest possible date. It is expected that students will report unanticipated absences due to illness, accident, or unanticipated events immediately to the Department Secretary or Department Chair. Unanticipated lateness should be discussed with the course instructor as soon as possible.

The student is responsible for all course material covered during an absence. Should an absence, lateness, or early departure occur on the day of an examination or announced/unannounced quiz, any make-up exams or quizzes may or may not be allowed, at the discretion of the course instructor.

Excessive absences, tardiness, and/or early departures are considered a violation of the Standards of Professional Conduct and are handled under the General University Academic Policies and Regulations section of this catalog. Excessive or unexcused absences, tardiness, and/or early departures may impact the student's final course grade.

c. Student Examination Policy

1. Students are not to communicate in any way during examinations and are to face the front of the classroom at all times.
2. During scheduled examination hours, students are highly discouraged from going to the bathroom, but will be allowed to go one at a time. The student will be required to turn in the exam and Scantron® sheet as he/she leaves the room.
3. Once a student finishes an exam, the student will turn in the exam and the Scantron® form to the proctor, and after he/she leaves the examination room, he/she will not be permitted to re-enter the room until the exam is declared over.
4. All students' belongings, i.e., notebooks, calculators, and headsets, etc., will be kept in front or along the sides of the room.
5. Questions will be answered at the discretion of the proctor during the examination period. Students are permitted to point out typographical or other errors present in the examination to the proctor.
6. Alternate seating shall be utilized for all examinations unless precluded by space availability.
7. Violations of these examination policies or of Standards of Professional Conduct may be brought before the Student Conduct Committee.

**Student Conduct Committee**

- a. The Student Conduct Committee of the College of Allied Health Professions is comprised of elected and appointed faculty members, the Vice President of Student Affairs/designee, and the University Legal Counsel.
- b. Western University of Health Sciences expects all students to adhere to its Standards of Professional Conduct as published in the University Catalog. Any allegation(s) that a student has violated these standards may be referred to the Student Conduct Committee for investigation.
- c. The Student Conduct Committee considers and investigates violations of professional conduct when requested either by the College of Allied Health Professions Dean or by a student.

**Student Academic Progress Committee**

- a. The Student Academic Progress Committee of the College of Allied Health Professions is comprised of Department Chairs, the Vice President of Student Affairs/designee, and elected faculty members.
- b. Each year, the Student Academic Progress Committee shall review as needed the academic achievements and the performance of all students. The names and grades of students in academic difficulty shall be made available to the Student Academic Progress Committee by the Department Chair.
- c. After reviewing a student's achievement and performance records, the Student Academic Progress Committee may recommend to the Dean of the College of Allied Health Professions any of the

following courses of action for a student: Promotion, probation, remediation, dismissal from the University, psychological and educational assessment and recommendation, or no action.

- d. The Student Academic Progress Committee also has the responsibility of recommending to the Faculty as a whole the awarding of the degree of Doctor of Physical Therapy upon satisfactory completion of all requirements for graduation as stated in the University Catalogue.
- e. All recommendations of the Student Academic Progress Committee shall be made in writing to the Dean of the College of Allied Health Professions, who will make a final decision and inform the student in writing.

### **Promotion**

Promotion is defined as progression from one academic year to the next.

- a. A student will be recommended to the Dean of the College of Allied Health Professions for promotion by the PT faculty and the Student Academic Progress Committee.
- b. A student may not be recommended for progression from one academic year to the next with any outstanding grades of "I," "U" or "NCR" on his/her academic record or with a cumulative grade point average of less than 2.8 for students who began matriculation in Fall 2009, and 2.7 for students who began matriculation in prior years.
- c. When considering a student for promotion, professional, ethical, and personal conduct may also be taken into consideration.
- d. A student will be promoted provided that all legal and financial requirements of the University as stated in the Catalogue have been satisfied.

### **Graduation**

A student will be recommended for the degree of Doctor of Physical Therapy provided he/she:

- a. Has satisfactorily completed a minimum of three years education at the University in the DPT curriculum, except if the student has been granted advanced standing in the program.
- b. Is not on probation and has completed all prescribed academic and clinical education requirements with a cumulative grade point average of at least 2.8 for students who began matriculation in Fall 2009, and 2.7 for those who began matriculation in prior years.
- c. Has no outstanding grade of "I" or "U," or "NCR" in a required course.
- d. Has demonstrated no serious deficiencies in ethical, professional, or personal conduct, as defined previously.
- e. Has complied with all the legal and financial requirements of the University as stated in the Catalogue.

Unless special permission has been granted by the President of the University, all students must attend in person and participate in the Commencement program at which time the degree is conferred. If the President grants special permission to be excused from graduation, the graduate may be required to present himself or herself to the appropriate Dean at a later date in order to take the required oath (if relevant) to receive his or her diploma.

### **Academic Warning**

The student who demonstrates unacceptable performance in any unit of study during any portion of the program is notified in writing of such performance by the course instructor, as soon as it becomes evident. This constitutes an academic warning. Continued poor academic performance can lead to academic probation and/or dismissal.

### **Academic Probation/Dismissal**

- a. Unsatisfactory or No Credit Course Grades  
"U" or "NCR" in any required course (didactic or clinical experience) constitutes a failing grade and places the student on academic probation. The student will be required to remediate or retake the course, based upon the decision of the Dean of the College of Allied Health Professions. The Student Academic Progress Committee will recommend to the Dean such an action after input from the department faculty. A grade of "U" or "NCR" in a required course will prevent participation in a clinical experience until the course is successfully remediated, and requires that the Director of Clinical Education (DCE) determine an appropriate clinical placement.

- As in all cases in which remediation of a course is required, this requirement may extend the length of the program beyond 36 months.
  - The highest grade a student may achieve by obtaining a 73 percent or higher score through remediation of a course is a grade of “C” or “CR.” The “C” or “CR” grade achieved by this means will be recorded on the official transcript beneath the original course grade of “U” (Unsatisfactory) or “NCR” (No Credit).
  - Failure to earn a grade of “C” or “CR” when remediation of a course is attempted will render the student subject to dismissal from the program or require that the student repeat the entire course.
  - If a student repeats a course the next time the course is offered in the DPT curriculum, the student will have the new grade for the course recorded on the official transcript beneath the original course grade of “U” (Unsatisfactory) or “NCR” (No Credit).
  - If a student earns two “U’s” or “NCR’s” in the same academic year and has a cumulative GPA at or greater than 2.8 (2.7 for student who began matriculation prior to Fall 2009), he/she may be required to repeat the entire academic year.
- b. Trimester/Semester/Overall GPA
- Students must attain a trimester/semester GPA of 2.8 for students who began matriculation in Fall 2009 or afterward and 2.7 for students who began matriculation in prior years and maintain an overall GPA of 2.8 for students who began matriculation in Fall 2009 or afterward and 2.7 for students who began matriculation in prior years. The trimester/semester and overall GPA will be calculated at the end of each trimester/semester.
  - A student whose trimester/semester or overall GPA falls below 2.8 (2.7 for those who began matriculation prior to Fall 2009) must meet with the Department Chair and the DCE. In order to closely monitor clinical performance, the DCE will determine any subsequent clinical placements.
  - If the trimester/semester or overall GPA falls below 2.8 (2.7 for students who began matriculation prior to Fall 2009), a student will be placed on academic probation immediately. Length of academic probation will be determined by the Dean of the College of Allied Health Professions.
  - If a student has two didactic trimesters/semesters in the same academic year with a GPA less than 2.8 (2.7 for students who began matriculation prior to Fall 2009) and a cumulative GPA at or greater than 2.8 (2.7 for students who began matriculation prior to Fall 2009), she/he may be required to repeat the entire academic year.
- c. A student will be subject to dismissal from the program for substandard academic or professional performance as follows:
- A third grade of “U” or “NCR” in three different required courses (didactic or clinical experiences);
  - A second grade of “U” or “NCR” in the same required course (didactic or clinical experiences) whether earned by repeating the course or as a result of unsatisfactory performance upon attempted remediation via examination.
  - Attainment of a trimester/semester GPA less than 2.8 (2.7 for students who began matriculation prior to Fall 2009) for two consecutive didactic trimesters/semesters with a cumulative GPA of less than 2.8 (2.7 for students who began matriculation prior to Fall 2009).
  - Attainment of a trimester/semester GPA less than 2.8 (2.7 for students who began matriculation prior to Fall 2009) in more than two consecutive didactic trimesters/semesters.
  - Failure to attain a cumulative GPA of 2.8 (2.7 for students who began matriculation prior to Fall 2009) or higher at the end of the academic year.
  - Lack of professional or personal attributes considered appropriate for continuance in the program and profession.
  - Any event that could result either in academic or professional probation for a student currently on academic or professional probation.
  - Violation of the terms of probation as stated in a letter at the time the student is placed on probation.

### **Remediation**

Every effort will be made to give each student ample opportunity to demonstrate competency in each area of the academic program. However, remediation is to be regarded as a privilege, which must be earned by a student through an active participation in the educational program as demonstrated by regular attendance, individual initiative, professional behaviors, and utilization of resources available to him or her. Except for repeating the course in its entirety, the highest grade a student can receive through the remediation process is a

“C” (passing grade). However, if the entire course is repeated the following year, the new course grade will be used in calculating the student’s cumulative GPA.

### **Tutorial Assistance Program**

A Tutorial Assistance Program (TAP) has been established at the University to assist students experiencing academic difficulty. Students will be recommended for this program by a faculty advisor or professor. The tutors will be chosen on the recommendation of the faculty of record for the class or Department Chair.

#### **General Procedures**

- a. The student may request a tutor by:
  1. contacting the course instructor and/or the Department Chair,
  2. contacting his/her advisor or,
  3. going directly to the Learning Enhancement and Academic Development (LEAD) Office.
- Student requests will be reviewed by the course instructor and/or the Department Chair. Upon approval, the student will be deemed eligible for services under TAP. Five hours per course is the maximum number of hours for which a student may be tutored per week.
- b. The course instructor may recommend that the student seek a tutor, based upon a poor performance on a single exam or poor cumulative score. Any time a student has received 73 percent or less on an exam, the student or course instructor may immediately request tutorial assistance for the student.
- c. The student’s advisor may recommend that the student seek a tutor, based upon any knowledge he or she may have about the student’s academic difficulty. In addition, the advisors will receive copies of letters from the Department Chair to students having academic difficulty.
- d. To initiate tutoring following a recommendation or student request for tutoring, the student follows these steps:
  1. The student obtains from the LEAD Office a list of names of tutors available for the course in which the student is having problems.
  2. The student is assigned a tutor by the LEAD Director from the list of available tutors.
  3. Once assigned, the tutor and tutee meet with the course instructor to discuss the student’s specific problems. The instructor should make some recommendations as to what areas the tutor should emphasize.
  4. The tutor and student arrange mutually agreeable times for the tutoring sessions.
  5. The tutor must have the course instructor sign the time sheet before it is turned in to the LEAD Office.

A student may obtain up to five hours of tutoring per course per week during the trimester/semester. By example: A Year I DPT student may be tutored in Physiology and Medical Screening for a total of 10 hours per week during the trimester/semester. Generally, tutoring begins after a student received grades at 73 percent or lower on an exam. The student may continue to be tutored for a course until he/she has obtained a B- (80%), or higher average grade for the course. As the student moves into trimester/semester III, the student may qualify for up to 20 hours of tutorial assistance per week (4 courses).

### **Modified DPT Curriculum**

The DPT program offers a modified curriculum for students experiencing documented personal health-related issues that can have an impact on academic performance. This modified program is a multi-year curriculum. The decision to enter the modified curriculum is a one time student option. Recommendation of individual students for the modified curriculum shall be made through the Dean of the College of Allied Health Professions (CAHP) upon recommendations from the Department of Physical Therapy Education faculty and the CAHP Student Academic Progress Committee. The student’s progress will be monitored carefully each trimester/semester by the Department Chair, CAHP Student Academic Progress Committee, and the Dean of the CAHP.

### **Professional Probation**

Violations of the Standard of Professional Conduct will be dealt with as described under the General University Academic Policies and Regulations of this catalog. The College Student Conduct Committee will investigate and offer recommended actions to the Dean regarding allegations of student misconduct, when requested by the Dean of the College of Allied Health Professions.

### **Exemption from Individual Course**

Students with advanced work or degrees in a particular subject formally may petition the instructor and the Department Chair for credit for an individual course. The petition must include the reasons for the request and all necessary documentation and must be submitted by the end of the first week of the course, and preferably prior to registering for the course. If enrolled in the course, the student must comply with the attendance policy until notification that exemption has been granted by the Dean, based upon recommendation of the Department Chair. The instructor, before recommending exemption, may require acceptable performance on an examination. The instructor, in consultation with the Department Chair, may suggest other alternative or additional criteria for determining exemption.

### **Confidentiality of Medical Records and Health History Information**

All data gathered by students about patients and their illnesses, including all items within patients' medical histories are privileged information.

- a. Students should not discuss patients' records in a manner or a situation that would reveal any information about these patients or their records to persons not involved in their health care.
- b. Charts or contents, e.g., lab reports, etc., are not to be removed from the hospital or clinical setting.

This also applies to individuals such as classmates, faculty and staff who volunteer as patients in class.

### **Use of Physical Therapy Equipment and Laboratories**

The DPTE policy for use of the PT equipment in the PT Skills Laboratories is as follows:

- No one is to use the PT equipment except DPT students who have received education and have had practice on the equipment in the laboratory.
- A faculty member must clear a student as being competent to use the equipment.
- DPT students using the equipment should be doing so in conjunction with a class they are taking, in preparation for a clinical experience, or to conduct a clinical research project.
- If equipment is used for a research project, the DPT faculty advisor will be responsible to check out the student's competency in using the equipment.
- Physical therapy skills and research labs may be used after regular class hours with permission of the Department Chair. Use of these facilities must be scheduled with the Department Chair five (5) working days in advance.
- Students may sign out specified equipment (i.e., goniometers) to use off campus for special events or personal practice. The Department Chair will approve what equipment may be taken out of the laboratory and off campus.

### **Clinical Education Policies and Procedures**

Students should refer to the current Department of Physical Therapy Education "Clinical Education Manual" for all policies and procedures governing physical therapy clinical education. If a difference in language is found between the two documents, the then-current Western University Student Catalog will take precedent.

## **CURRICULUM ORGANIZATION (STUDENT MATRICULATING PRIOR TO AUGUST 2010)**

The DPT curriculum is continually evaluated to assure the best educational experience and outcomes. With this consideration, the following is an outline of curriculum organization.

### **Year I**

Course number		Semester Hours
<u>Trimester I - 15 Weeks</u>		
PT 5000	Psychosocial Aspects of Health Care	2.5
PT 5029	Thoracic and Abdominal Anatomy/Histology	3
PT 5070	Patient Care Skills	3
PT 5075	Physical Agents & Procedures	4
PT 5100	Physiology and Pathophysiology	5
PT 5230	Medical Screening and Systems Review I	2
<i>Total</i>		<i>19.5</i>

**Trimester II - 15 Weeks**

PT 5030	Anatomy I	3
PT 5035	Anatomy II	3
PT 5050	Kinesiology I	3
PT 5055	Kinesiology II	4
PT 5120	Human Life Sequences	2
PT 5130	Research Methodology in Health Care	2
PT 5141	Clinical Education & Professional Development I	1
<i>Total</i>		<i>18</i>

**Trimester III - 17 Weeks**

PT 5015	Physical Therapy in the Health Care System	3
IPE 5100	Patient Centered Cases I	1
PT 5140	Research in Evidence Based Practice	2
PT 5200	Differential Diagnosis of Musculoskeletal Disorders	2
PT 5210	Evaluation and Treatment of Lower Quarter Musculoskeletal Dysfunction	6
PT 5220	Principles of Teaching and Learning	2
PT 5235	Medical Screening and Systems Review II	2
PT 7010	Clinical Education I	1.5
<i>Total</i>		<i>19.5</i>

**Year II****Trimester IV -15 Weeks**

PT 5142	Clinical Education and Professional Development II	1
PT 5205	Evaluation and Treatment of Upper Quarter Musculoskeletal Dysfunction	6
IPE 6000	Patient Centered Cases II	1*
PT 6020	Principles of Electrotherapeutic Evaluation & Treatment	3
PT 6030	Physiology of Exercise	4
PT 6040	Evaluation & Treatment of the Cardiopulmonary System	4
PT 8100	Pharmacology for the Physical Therapist	3
<i>Total</i>		<i>22</i>

**Trimester V - 12 Weeks**

PT 7020	Clinical Education II	6
<i>Total</i>		<i>6</i>

**Trimester VI - 16 Weeks**

PT 6000	Neuroanatomy	4
PT 6005	Neurophysiology	4
PT 6010	Evaluation & Treatment of Neurological Disorders I	4
PT 6015	Differential Diagnosis of Neurological Disorders	4
PT 6060	Prosthetics, Orthotics and Gait	3
IPE 6100	Patient Centered Cases III	1*
PT 8110	Structural Imaging in Physical Therapy Diagnosis	3
<i>Total</i>		<i>23</i>

**Year III**

<u>Trimester VII - 15 Weeks</u>		
PT 5143	Clinical Education & Professional Development III	1
PT 6011	Evaluation & Treatment of Neurological Disorders II	4
PT 6045	Differential Diagnosis of the Integumentary System/Wound Care	3
PT 6050	Principles of Administration and Management	3
PT 6070	Prevention and Management of Problems in the Aging Adult	3
PT 6075	Prevention and Management of Problems in the Pediatric Patient	3
PT 6220	Application of Research to Clinical Practice	1
PT 8400	Research Investigation (optional)	0-2
<i>Total</i>		18-20

\*For students beginning the DPT program in the 2009-2010 academic year only.

<b>Trimester VIII - 18 Weeks</b>		
PT 7030	Clinical Internship I	6
PT 8500	Selected Topics	2-4
<i>Total</i>		8-10

Trimester IX - 12 Weeks  
PT 7040 Clinical Internship II  
*Total* 6 6

Graduation - Total Semester Hours 140-144

## **CURRICULUM ORGANIZATION FOR DPT STUDENTS ENTERING IN AUGUST 2010**

The DPT curriculum is continually evaluated to assure the best educational experience and outcomes. With this consideration, the following is an outline of the curriculum organization.

		<b>Year I</b>	
Course number			Semester Hours
<u>Semester I - 18 Weeks</u>			
PT 5000	Psychosocial & Ethical Aspects of Health Care		3
PT 5030	Anatomy I		4
PT 5050	Kinesiology I		3
PT 5070	Patient Care Skills I		3
PT 5100	Physiology & Pathophysiology		5
PT 5130	Research Methodology in Health Care		3
IPE 5000	Patient Centered Cases I – An Interprofessional Approach		1
<i>Total</i>			22

<u>Semester II - 19 Weeks (16 academic, 1 spring break, 2 clinical)</u>		
PT 5015	Professional & Practice Issues in Physical Therapy	3
PT 5035	Anatomy II	4
PT 5055	Kinesiology II	5
PT 5075	Physical Agents & Procedures	3
PT 5140	Evidence Based Practice	3
PT 5141	Professional Development & Reflective Practice I	1
PT 5230	Screening for Medical Referral I	2
PT 8100	Introduction to Pharmacology for Physical Therapists	1
IPE 5100	Patient Centered Cases II	1

PT 7010	Clinical Education I (2 weeks)	1
<i>Total</i>		<i>24</i>

**Semester III - 9 Weeks**

PT 5120	Human Life Sequences	2
PT 8110	Structural Imaging: Musculoskeletal	2
PT 5233	Foundations of Patient Examination	2
PT 5235	Screening for Medical Referral II	2
PT 5215	Motor Control & Motor Learning	3
PT 8400	Capstone Project I	0
<i>Total</i>		<i>11</i>

**Year II**

**Semester IV - 18 Weeks**

PT 5205	Examination & Management of Musculoskeletal Dysfunction I	5
PT 6060	Prosthetics, Orthotics and Gait	3
PT 6008	Neuroscience	5
PT 6030	Physiological Basis of Therapeutic Exercise	4
PT 6040	Evaluation & Treatment of Problems of the Cardiopulmonary System	4
PT 6630	Structural Imaging II: Neurological	1
IPE 6000	Patient Centered Cases III	1
<i>Total</i>		<i>23</i>

**Semester V - 17 Weeks**

PT 5142	Professional Development & Clinical Education	1
PT 5210	Examination & Management of Musculoskeletal Dysfunction II	5
PT 6010	Evaluation & Management of Neurological Disorders I	5
PT 6065	Patient Care Skills II	2
PT 6075	Prevention and Management of Problems in the Pediatric Patient	4
PT 6020	Electrotherapeutic Principles	2
PT 6045	Differential Diagnosis of the Integumentary System/Wound Care	2
PT 5220	Principles of Teaching, Learning & Communication	2
IPE 6100	Patient Centered Cases IV	1
<i>Total</i>		<i>24</i>

**Semester VI – 12 Weeks**

PT 7020	Clinical Education II	6
<i>Total</i>		<i>6</i>

**Year III**

**Semester VII - 18 Weeks**

PT 5143	Professional Development & Clinical Practice	1
PT 6015	Examination & Management of Neurological Disorders II	5
PT 6050	Principles of Administration & Management	3
PT 6070	Prevention & Management of Problems in the Aging Adult	3
PT 6090	Differential Diagnosis & Management of the Complex Patient	3
PT 8401	Capstone Project II	3
<i>Total</i>		<i>18</i>

<b>Semester VIII - 12 Weeks</b>		
PT 7030	Clinical Education III	6
<i>Total</i>		6
<b>Semester IX – 17 Weeks</b>		
PT 7040	Clinical Education IV	6
PT 8500	Selected Topics	2
PT 8402	Capstone Project III	1
PT 8600	Service Learning	2
<i>Total</i>		11
Graduation - Total Semester Hours		144

## **DESCRIPTION OF THE DPT PROGRAM FOR STUDENTS WITH ADVANCED STANDING**

### **Admissions Policies and Procedures – Advanced Standing**

Admission to the DPT program for students with advanced standing is through the Admissions Office. Students may apply for the fall, spring or summer semesters.

### **Application Requirements**

The applicant must have graduated from a Commission on Accreditation in Physical Therapy Education (CAPTE) accredited physical therapy program and/or be licensed to practice in the United States. Foreign-prepared therapists must be licensed to practice physical therapy in the State of California. Additional requirements include:

- A minimum of one year (2000 hours) clinical experience in any setting.
- Letters of recommendation (three with at least one from a PT supervisor/colleague; remaining letters may be from non-PT health care professionals).
- Writing sample including why the applicant desires to pursue this degree and what he/she will plan to accomplish with it; i.e., a statement of purpose.
- Computer access and skills.

Students who do not meet the admissions requirements may petition the Admissions Committee for special consideration.

Note: Western University DPT program is committed to admitting individuals with a disability provided they meet all of the qualifications listed above as well as the technical guidelines listed in the previous section with reasonable accommodations.

### **Application Procedures and Deadlines**

Students are advised to submit application materials as early as possible prior to the trimester in which they wish to begin their program of studies. The deadline for application materials is no later than 45 days prior to the first day of classes for each semester.

To request an informational brochure and/or an application, contact the Admissions Office at:

Office of Admissions  
 Western University of Health Sciences  
 309 East Second Street  
 Pomona, CA 91766-1854  
 (909) 469-5335

In addition to submitting an application, the applicant must submit a non-refundable application fee of \$60 and official transcripts from all undergraduate and graduate institutions attended.

### **Portfolio Review**

Upon acceptance to the program, as part of the application process, students will be asked to submit a portfolio of past education and experiences related to physical therapy. This information will be reviewed by the faculty advisor and may be analyzed by a credentialing agency. There is a separate fee if the credentialing

agency is used to analyze the portfolio. Decisions regarding required courses will be based on review of the portfolio. Some courses may be waived if sufficient evidence is provided to demonstrate fulfillment of competencies and program outcomes in specified areas.

### **Readmission**

Students with advanced standing who have not been enrolled for more than one calendar year must submit a new application form and fee, unless other arrangements have been made at the time of withdrawal/leave from the program. The application will be assessed according to the current admissions policies, and students will be required to fulfill all program requirements in place at the time of readmission.

### **Curriculum Design and Organization**

The DPT program for students with advanced standing is designed for the adult learner. Adult learners are students who have life roles other than student, which make demands on their time and resources, such as being a parent and/or an employee. The design uses contemporary educational and instructional learning theories that emphasize outcome behaviors as the desired goal, rather than time on task. Individualized instructional strategies that include mediated learning as well as classroom instruction are also used. The program features several non-traditional instructional strategies.

Advanced students may choose to take web-based courses or enroll in the same on-campus classes offered to the first professional degree students. The instructional modality that is most evident in the curriculum for advanced students is web-based distance learning. Students are prepared to understand the characteristics of the adult learner role and are shown how to acquire adequate computer literacy during an introductory course entitled "Strategies for Successful Learning" (PT 6600). They are expected to be online and engaged in learning activities from the first day of the first semester. The DPT web site is designed to provide the learner with all of the direction that is needed to be successful in each course, including learning objectives, content, learning activities, evaluation methods and grading criteria.

An on-campus orientation is required prior to starting the first course of the program. The PT 6600 Strategies for Successful Learning course is completed at that time. One or more on-campus seminar weekends are held each semester, depending on the individual courses enrolled in during that semester. At least two weekend seminar classes are held for each course. Weekend classes may be held Friday afternoon through Saturday, all day Saturday only, or Saturday morning through Sunday afternoon. Seminar sessions may include lecture, testing, skills training, student presentations, and student group work. The seminar periods are conducted as problem-solving sessions where the learner has the opportunity to demonstrate knowledge and skill that have been acquired through self-directed study and obtain feedback and stimulation from instructors and fellow students.

Cooperative learning is emphasized throughout the program. Students may be assigned to groups to work on applying their collective problem-solving skills toward the resolution of case-based scenarios. The online courses require student participation in asynchronous discussions. Students are required to submit original comments based on relevant research as part of evidence-based practice. In addition, they are expected to respond to other comments from students and the instructor(s).

### **Registration Policies and Procedures**

#### **New Students in Advanced Standing**

New students admitted with advanced standing are notified by mail of their admission status. Classes may fill quickly; therefore, the student is encouraged to register early. Course information and schedule of classes are available from the Department of Physical Therapy Education office.

#### **Continuing Students in Advanced Standing**

Continuing students will receive registration information and materials by Western University e-mail prior to the beginning of the semester. Should this information not arrive for any reason, it is the student's responsibility to contact the Department of Physical Therapy Education for the appropriate materials. Classes may fill quickly; therefore, the student is encouraged to register early. The deadline for course registration is set by the Department Chair and is usually two weeks prior to the start of class. A late registration fee will be assessed for each day beyond the deadline.

### **Add/Drop and Withdrawal from Courses**

In order to add or drop a class, the student must obtain a Change of Registration form from the Department Chair, complete and submit it prior to the end of the second week of classes of that semester. Withdrawal from a course (not the program) after the second week and prior to the last day of class requires completion and submission of the appropriate withdrawal form obtained from the Department Chair. Please note that this will result in a "W" grade.

### **TUITION AND FEES**

Tuition and Fees for the 2010-2011 academic year (subject to change) for students admitted with Advanced Standing are as follow:

Tuition	
\$360	cost per credit unit
Other Fees	
\$60	application fee
\$30	(per day) Late registration fee

Tuition and fees are subject to change without notice upon approval by the Board of Trustees. All fees are mandatory for each student and are non-refundable. Obligation for payment in full of tuition and fees is due upon matriculation.

### **Computer Requirements**

The following is a list of minimum computer equipment necessary for the Web-based program:

- 1600 MHz Intel Pentium or higher
- Windows XP operating system
- LCD capable of 1024x768 resolution or higher
- 1 GB RAM
- 60 GB ROM
- 2 USB Ports; CD-RW/DVD Combo
- Microsoft Word and PowerPoint; Outlook Express or Windows Live Mail; Internet Explorer 7.0; Antivirus software (updatable); Windows Media Player 10 or higher; Java version 6.17
- Wireless Network A/B or G with WPA
- Ethernet Card 10/100 Internal, or PCMCIA with network cable
- Internet Service Provider (ISP) and e-mail account (dedicated telephone line recommended)
- Printer

### **ACADEMIC REQUIREMENTS**

Unless otherwise stipulated in this section, all other Academic Requirements of the DPT program must also be met ([see above](#)).

### **Course Load/Financial Aid**

A student with advanced standing at Western University must enroll in at least six units per term to be considered full-time. It is expected that students with advanced standing in the DPT program will be enrolled less than full-time, i.e., one course per semester. To be eligible for financial aid, a student must be enrolled at least half-time (four units) per semester.

### **Student's Rights and Responsibilities**

It is the responsibility of the student to be familiar with the contents of the catalog and to observe all policies and procedures relative to the completion of requirements for the graduate degree that were in effect at the time of initial enrollment in the DPT program.

A student may opt to complete the program of study and degree requirements described at the time of his or her graduation, provided all revised policies of the later catalog are followed. Students are required to keep the Registrar informed of their current address and telephone number. This may be done via the Ban Web online student records system.

### **Reasonable Academic Progress**

All students with advanced standing are expected to make reasonable progress each year toward the degree objective. Students with advanced standing are considered to be making reasonable academic progress when they maintain an overall GPA of at least 2.8 (2.7 for students who began matriculation prior to Fall 2009) and complete four to six units during the calendar year. Students must complete the graduation requirements within the time limits described under Time Limits (below).

### **Seminar Weekend Attendance for Web-based Courses**

Attendance is mandatory for all seminars. Dates of the weekend seminar program are published and distributed at the beginning of each trimester. Students who are unable to attend a weekend session must contact the course instructor immediately to make other arrangements regarding missed exams and/or course information. Students who consistently do not comply with this policy may be dismissed from the program. The department faculty may make a recommendation for dismissal to the College of Allied Health Professions; Student Academic Progress Committee (SAPC). SAPC will review the student's performance and make a recommendation to the Dean of the College of Allied Health Professions who will make a determination about the student's continued enrollment.

### **Curriculum Organization for Students with Advanced Standing**

Students must meet all the requirements for the DPT program as listed in the previous section. Credit will be given for previous coursework. It is anticipated that students will be required to complete at least the following courses, unless their portfolio shows evidence of mastery of course content:

PT 5130	Research Methodology in Health Care	2 units
PT 5140	Research in Evidence-based Practice	2 units
PT 6220	Application of Research to Clinical Practice	1 unit
PT 6600	Strategies for Successful Learning	0 units
PT 8100	Pharmacology for the Physical Therapist	3 units
PT 8110	Structural Imaging in Physical Therapy Diagnosis	3 units
PT 8120	Medical Screening & Systems Review	4 units
PT 8130	Advanced Differential Diagnosis I	2 units
PT 8133	Advanced Differential Diagnosis II	2 units
PT 8135	Advanced Differential Diagnosis III	2 units
	Total:	22 units

### **Additional Courses**

PT 8200	Professional Leadership and Ethics	2 units
PT 8210	Documentation and Health Care Financing	2 units
PT 8230	Wellness & Prevention/Community Education	3 units
PT 8698	Group Independent Studies	1-3 units
PT 8699	Individual Independent Studies	1-3 units

These additional courses have been specifically designed for students with advanced standing who may not have met a minimal level of proficiency in these areas prior to admission to the program. Proficiency level will be determined through a review of the applicant's portfolio. Students may opt to take equivalent course offered in the first professional DPT degree program to fulfill content not obtained through previous academic programs, continuing education, or clinical experience. Another option offered to students is to complete a group or individual independent studies course to fulfill course requirements.

### **Residency Requirements**

A minimum of 12 units must be completed with course work offered by the DPT program at Western University.

### **Time Limits**

The DPT program for students with advanced standing may be completed within 2 ½ years of part-time study. All requirements for the degree must be fulfilled within five years from the date of acceptance to the program. Extensions of this time limit may be granted through petition to the faculty and Department Chair.

## **COURSE DESCRIPTIONS AND CREDIT HOURS**

All courses are awarded letter grades, except when indicated otherwise. Prerequisite course requirements refer to the satisfactory completion of a designated course(s) or approval/permission of the individual course instructor prior to enrollment. A student may petition the faculty in writing if they wish to be considered for advancement without satisfactorily meeting the course prerequisite(s). The faculty may waive compliance of satisfactory completion of a course prerequisite in order to progress to the next required course(s).

### **PT 5000 Psychosocial and Ethical Aspects of Health Care (3 credit hours)**

Prerequisite: Acceptance to program. Introduction to the psychological, sociological and cultural aspects of acute, chronic, terminal, traumatic and congenital medical problems on the patient, family and therapist. Includes impact of verbal and non-verbal communication and patient advocacy. Overview of basic legal and ethical principles as well as application of ethical decision making in relationship to professional health care dilemmas. Lecture.

### **PT 5015 Professional and Practice Issues in Physical Therapy (3 credit hours)**

Emphasis on elements of the professional therapeutic relationship and concepts presented in the *Guide to Physical Therapist Practice*. This course will cover a broad perspective of world, national and state health care issues, professional advocacy and professional aspects of physical therapy practice, including reimbursement in a variety of practice settings. Lecture.

### **PT 5030 Anatomy I (4 credit hours)**

The first of two courses covering histology and normal human anatomy, including thorax and abdomen. Incorporates surface palpation of the entire body. Cadaver dissection is included. Lecture and Laboratory.

### **PT 5035 Anatomy II (4 credit hours)**

The second of two courses covering normal human anatomy, including upper and lower extremities, spine, head, and neck. Emphasis is placed on the neuromuscular system. Cadaver dissection is included. Lecture and Laboratory.

### **PT 5050 Kinesiology I (3 credit hours)**

Prerequisites: Acceptance to the program. Introduction to the theoretical principles and clinical applications of kinetics and kinematics to the axial and extremity joints and muscles, with an emphasis on normal function. Pathokinesiology is addressed as an aid to identify major concepts and to introduce clinical relevance. The course includes basic evaluation of the musculoskeletal system. Lecture and Laboratory.

### **PT 5055 Kinesiology II (5 credit hours)**

Prerequisites: PT 5030 and 5050. Continuation of PT 5050 on the theoretical principles and clinical applications of kinetics and kinematics to the axial and extremity joints and muscles, with emphasis on normal function. Lecture and Laboratory.

### **PT 5070 Patient Care Skills I (3 credit hours)**

Introduction to the basic physical therapy skills of transfers, soft tissue mobilization and medical terminology. Introduction to documentation in a variety of physical therapy settings. Lecture and Laboratory.

### **PT 5075 Physical Agents and Procedures (3 credit hours)**

This course will cover tissue healing and impairments with didactic and clinical application of selected physical agents used in physical therapy practice. Emphasis on clinical decision making in the selection, application and evaluation of modalities within a comprehensive plan of care to address impairments and functional limitations. Lecture and Laboratory.

### **IPE 5000 Patient Centered Cases I– An Interprofessional Approach (1 credit hour)**

Prerequisite: Acceptance to the program. This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life

span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

**PT 5100 Physiology and Pathophysiology (5 credit hours)**

Prerequisite: Acceptance to program. This course is designed to elucidate the functional characteristics of human physiology. Principles of emphasis include structural basis of function as well as integrational elements underlying homeostatic regulation. The course is also designed to elucidate the characteristics and pathophysiology of certain common and significant diseases that are encountered by physical therapists. Lecture.

**PT 5120 Human Life Sequences (2 credit hours)**

The developmental process from conception to death with the emphasis on human motor performance. Sequence of study includes fetal life, infancy, early and middle childhood, late childhood, adolescence, early and middle adulthood, and the aging adult including: neuroanatomical and neurophysiological mechanisms in relationship to developmental changes in performance, and musculoskeletal development in relationship to the human life span.

**PT 5130 Research Methodology in Health Care (3 credit hours)**

Prerequisite: Acceptance to program. This course will cover basic quantitative, qualitative, and epidemiologic methods and designs of research. Topics include ethical issues related to research, validity and reliability of measures, sampling methods, and appropriate statistical analysis for various types of research. Lecture.

**PT 5140 Research Evidence-based Practice (2 credit hours)**

This course provides students with an opportunity to apply principles and concepts from research methodology in the critical analysis of clinical literature. Emphasis is placed on the practical application of research principles and the scientific process as utilized by an evidence-based practitioner. Lecture.

**PT 5141 Professional Development and Reflective Practice (1 credit hour)**

Overview of clinical education in physical therapy to include the APTA guidelines, legal aspects, and professional development through reflective practice and self assessment. Portfolio development, scheduling and assignment for Clinical Education I are incorporated herein. Lecture.

**PT 5142 Professional Development and Clinical Education (1 credit hour)**

Continuation of PT 5141 on various aspects of professional development and clinical education, including expectations and evaluation of clinical performance and utilization of the clinical evaluation tool, the CPI. Portfolio management, scheduling and assignment for Clinical Education is incorporated. Lecture.

**PT 5143 Professional Development and Clinical Practice (1 credit hour)**

Continuation of PT 5142 on various aspects of professional development and clinical practice to include completion of the portfolio, resume writing and interview skills, and an overview of the licensure process. Scheduling and assignment for Clinical Education III and IV are included herein. In addition, there is an optional opportunity for an extended educational experience that will be presented in this course.

**IPE 5100 Patient Centered Cases II – An Interprofessional Approach (1 credit hour)**

Continuation of IPE 5000.

**PT 5205 Examination and Management of Musculoskeletal Dysfunction I (5 credit hours)**

Regional, problem solving approach to neuromusculoskeletal problems in the adult population including underlying foundational principles. Emphasis is on clinical examination and management skills, including physical therapy differential diagnosis, causal factors, impairments, symptoms and evidence based treatment. Introduction of applicable pharmacology concepts will be presented for this patient population, including drug actions and screen for signs of toxicity and adverse effects. Lecture and Laboratory.

**PT 5210 Examination and Management of Musculoskeletal Dysfunction II (5 credit hours)**

Continuation of PT 5205.

**PT 5215 Motor Control and Motor Learning (2 credit hours)**

Introduction to the theories, structures and processes of motor control and motor learning. Lecture and laboratory.

**PT 5220 Principles of Teaching, Learning and Communication (2 credit hours)**

Communication and teaching-learning theory applied to clinical practice. Includes teaching techniques for becoming a Clinical Instructor, functioning as a member of an interdisciplinary team, and delivering clinical and professional presentations. Lecture.

**PT 5230 Screening for Medical Referral I (2 credit hours)**

This course uses a systems approach to discuss common medical conditions, their epidemiology, etiology, clinical manifestations, medical management, and issues related to PT screening, examination, interventions and appropriate referral to other medical practitioners. Lecture and Laboratory.

**PT 5233 Foundations of Patient Examination (2 credit hours)**

Foundational principles and practice of evidence-based clinical physical therapy examination and management of persons with orthopedic and neurologic disorders. Emphasis is placed on critical thinking through focused patient communication in a culturally sensitive manner. Lecture and laboratory.

**PT 5235 Screening for Medical Referral II (2 credit hours)**

This course continues from PT 5230 with a focus on screening for the complex patient. This course uses a systems approach to discuss common medical conditions, their epidemiology, etiology, clinical manifestations, medical management, and issues related to PT screening, examination, interventions and appropriate referral to other medical practitioners. Lecture and laboratory.

**IPE 6000 Patient Centered Cases III– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 5100.

**PT 6008 Neuroscience (5 credit hours)**

Systematic, problem solving approach to the anatomical and physiological structure and function of the normal and injured central, peripheral and autonomic nervous systems. Students will develop sufficient knowledge of neurophysiological principles to comprehend nervous system function and alterations resulting from damage. Three-dimensional relationships and functional connectivity will be examined in detail with the ultimate goal of developing the ability to diagnose lesions of CNS based on presenting deficits. Assessment of numerous case studies will familiarize students with organized, logical strategies for deduction of deficits and localization of lesions. Lecture and laboratory.

**PT 6010 Examination and Management of Neurological Disorders I (5 credit hours)**

This course will present a systematic, problem solving approach to neurological disorders in the adult population, including underlying foundational principles. Emphasis is on clinical examination and management skills, including physical therapy differential diagnosis, causal factors, impairments, symptoms and evidence based treatment. Introduction of applicable pharmacologic principles appropriate for this population including drug actions and screening for signs of toxicity and adverse effects is included. Lecture and Laboratory.

**PT 6015 Examination and Management of Neurological Disorders II (5 credit hours)**

Continuation of PT 6010.

**PT 6020 Electrotherapeutic Principles (2 credit hours)**

This course provides practical clinical application of electrotherapeutic strategies in the physical therapy management of dysfunction. This will include basic foundational concepts, parameters, electrical safety and instrumentation. Lecture and laboratory.

**PT 6030 Physiological Basis of Therapeutic Exercise (4 credit hours)**

The physiological basis of therapeutic exercise is the foundation for this course, as well as the application of therapeutic exercise to treat acute, sub-acute and chronic conditions. This course addresses bioenergetics,

therapeutic exercise and exercise prescription based upon the acute and chronic physiological responses of the human body during exercise and other special conditions. Lecture and laboratory.

**PT 6040 Evaluation and Treatment of Problems of the Cardiopulmonary System (4 credit hours)**

This course serves as an introduction to evaluation and treatment of diseases of the cardio-pulmonary system. It will include physiology and pathophysiology, evaluation methods, treatment methods, and prevention with a focus on differential diagnosis. This course will also introduce aspects of pharmacology used in this patient population, including drug actions and screening for signs of toxicity and adverse effects. Lecture and laboratory.

**PT 6045 Differential Diagnosis of the Integumentary System/Wound Care (2 credit hours)**

This course introduces screening for pathological conditions of the integumentary system including examination and interdisciplinary medical management. Emphasis on wound healing and intervention techniques is incorporated. This course will also introduce aspects of pharmacology used in this patient population, including drug actions and screening for signs of toxicity and adverse effects. Lecture and laboratory.

**PT 6050 Principles of Administration and Management (3 credit hours)**

Organization and administration of a physical therapy department including budget considerations, hiring-interviewing techniques, marketing, and medical-legal issues. Lecture.

**PT 6060 Prosthetics, Orthotics, and Gait (3 credit hours)**

Assessment, appropriate selection and application of prosthetic and orthotic devices to physical therapy clients with common neurological and musculoskeletal impairments. Analysis and differentiation of pathological gait patterns related to use of prosthetic and orthotic devices. Lecture and laboratory.

**PT 6065 Patient Care Skills II (2 credit hours)**

Continuation of PT 5070. A case based approach to patient care with a focus on the acute care setting. Emphasis is on examination and patient care skills of complex patients in an interdisciplinary setting. Critical thinking elements focus on effective communication and patient care documentation. Lecture and Laboratory.

**PT 6070 Prevention and Management of Problems in the Aging Adult (3 credit hours)**

Systematic, problem solving approach to the elderly patient/client with emphasis on prevention, etiology, clinical manifestations, evaluation, treatment and resources. This course will also introduce aspects of pharmacology used in this patient population, including drug actions and screening for signs of toxicity and adverse effects. Lecture.

**PT 6075 Prevention and Management of Problems in the Pediatric Population (4 credit hours)**

Systematic, problem solving approach to the pediatric client with emphasis on prevention, etiology, clinical manifestations, evaluation and treatment. This course will also introduce aspects of pharmacology used in this patient population, including drug actions and screening for signs of toxicity and adverse effects. Lecture and laboratory.

**PT 6090 Differential Diagnosis and Management of the Complex Patient (3 credit hours)**

This course employs a mixed traditional and problem-based approach using a case study context. Students learn to differential and manage patients with multisystem dysfunction within the scope of physical therapy practice. Lecture and laboratory.

**IPE 6100 Patient Centered Cases IV– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 6000.

**PT 6600 Strategies for Successful Learning (0 credit hours)**

Prerequisite: Acceptance to program. This course provides new students entering with advanced standing an introduction to the DPT program. Following an overview of the most important services, policies, instructional methods and resources, students will have an opportunity to assess their readiness for the program. The awareness, knowledge and skills derived from this part of the course will help ensure successful completion of

the program. This course is provided on campus only and must be taken prior to beginning the first trimester/semester in the program. CR/NCR.

**PT 6630 Structural Imaging in Physical Therapy Differential Diagnosis – Neurologic (1 credit hour)**

This course will provide an introduction to indications, instrumentation and clinical interpretation of various medical imaging techniques. The focus will be on test selection, clinical interpretation and practical integration of imaging data into diagnosis of neurological conditions in the context of planning and communication with other medical professionals. Lecture.

**PT 7010 Clinical Education I (1 credit hour)**

Prerequisite: Satisfactory completion of Semesters I and II. Forty hours per week for two weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of course content in Semesters I and II will be emphasized in this clinical experience. CR/NCR.

**PT 7020 Clinical Education II (6 credit hours)**

Prerequisite: Satisfactory completion of Semesters I through V. Forty hours per week for twelve weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of course content in Trimesters/Semesters I through V (musculoskeletal and/or cardiopulmonary pathologies) will be emphasized in this clinical experience. CR/NCR.

**PT 7030 Clinical Education III (6 credit hours)**

Prerequisite: Successful completion of Trimesters/Semesters I though VII. Forty hours per week for twelve weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of all course content in Trimesters/Semesters I though VII will be emphasized in this clinical experience. CR/NCR.

**PT 7040 Clinical Education IV (6 credit hours)**

Prerequisites: Satisfactory completion of Semesters I-VIII. Forty hours per week for twelve weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of all course content in Trimesters/Semesters I though VIII will be emphasized in this clinical experience. CR/NCR.

**PT 7050 Clinical Internship (0 credit hours)**

An optional 1-year clinical experience.

**PT 8100 Introduction to Pharmacology for the Physical Therapist (1 credit hour)**

Prerequisite: Basic and applied pharmacology for the physical therapist. Includes pharmacokinetics, pharmacodynamics, classes of drugs, screening for drug toxicities and adverse effects related to physical therapy. Lecture.

**PT 8110 Structural Imaging in Physical Therapy Diagnosis (3 credit hours)**

This course will provide an introduction to indications, instrumentation and clinical interpretation of various medical imaging techniques. The focus will be on test selection, clinical interpretation and practical integration of imaging data into diagnosis of musculoskeletal conditions for planning and communication with other medical professionals. Lecture.

**PT 8120 Medical Screening and Differential Diagnosis (4 credit hours)**

Prerequisite: Acceptance to the program as a student with advanced standing. The course uses a systems approach to discuss common medical conditions, their epidemiology, etiology, clinical manifestations, medical management and issues related to PT screening, examination, interventions, and red flags. An introduction to differential diagnosis and systems review in physical therapy is provided with emphasis on the integumentary system. Includes labs on physical exam related to visceral structures for purposes of medical screening and indications for referral to medical practitioner or other appropriate health care providers. May include online lectures/discussions and in class laboratory.

**PT 8130 Advanced Differential Diagnosis I (2 credit hours)**

Prerequisites: PT 8120 and licensed physical therapist with at least one year of clinical experience. This course includes detailed skills for differentiating pathologies within the musculoskeletal system as described in

the *Guide to Physical Therapist Practice*. The reliability and validity of relevant PT tests and measures will be explored. The physical therapist will develop higher level clinical reasoning skills related to developing a PT diagnosis and interventions. Cases will include those with complex presentations, multi-systems involvement, and will encompass the life span.

**PT 8133 Advanced Differential Diagnosis II (2 credit hours)**

Prerequisite: PT 8120 and licensed physical therapist with at least one year of clinical experience. This course includes detailed skills for differentiating pathologies within the cardiovascular and pulmonary systems as described in the *Guide to Physical Therapist Practice*. The reliability and validity of relevant PT tests and measures will be explored. The physical therapist will develop higher level clinical reasoning skills related to developing a PT diagnosis and interventions. Cases will include those with complex presentations, multi-system involvement, and will encompass the life span.

**PT 8135 Advanced Differential Diagnosis III (2 credit hours)**

Prerequisites: PT 8120 and licensed physical therapist with at least one year of clinical experience. This course includes detailed skills for differentiating pathologies with the neurologic system as described in the *Guide to Physical Therapist Practice*. The reliability and validity of relevant PT tests and measures will be explored. The physical therapist will develop higher level clinical reasoning skills related to developing a PT diagnosis and interventions. Cases will include those with complex presentations or multi-system involvement and will encompass the life span.

**PT 8140 Application of Research in Evidence-based Practice (3 credit hours)**

Prerequisite: PT 5130 or equivalent. Examines research methods used for the objective and systematic study and evaluation of clinical practices. Applies evidence in the area of physical therapy administration and management to current practice settings following the five steps of evidence-based practice. Includes individual reviews and group on-line discussions.

**PT 8200 Professional Leadership and Ethics (2 credit hours)**

Potential leadership roles of the physical therapist will be discussed. Issues related to professional development and reflective practice, collaboration with other health care providers, and knowledge of advocacy will be examined. Group discussions will include legal/ethical issues experienced in the clinical setting and in relation to the role of the physical therapist in primary care/direct access.

**PT 8210 Documentation and Health Care Financing (2 credit hours)**

Government, private insurance and managed care changes in health care financing will be presented. Students will review and critique documentation as a means to developing their own skills in this area.

**PT 8230 Wellness and Prevention/Community Education (3 credit hours)**

The application of primary, secondary and tertiary prevention and the therapist's role in wellness and health promotion will be discussed. Teaching/learning principles are applied to community education programs including those related to wellness, prevention and health promotion.

**PT 8400 Capstone Project I (0 credit hours)**

This course provides the opportunity to select a capstone project in one of three areas: a community service partnership project; a comprehensive case study from a clinical education experience; or an empirical research project. Lecture.

**PT 8401 Capstone Project II (3 credit hours)**

This course provides the continued development of the capstone project. It is expected that the final product will contribute to the community, clinical practice, or professional literature at a level consistent with presentation to a professional audience. Completed projects will be presented as posters or platform presentations prior to graduation. Lecture.

**PT 8402 Capstone Project III (1 credit hour)**

This course is a continuation of PT 8400 and 8401. Completed projects will be presented as posters or platform presentation. Lecture.

**PT 8500 Selected Topics (2-4 credit hours)**

Prerequisite: Approval of instructor. Special topics in physical therapy presented in workshop format. Laboratory experiences may be included. CR/NCR.

**PT 8600 Service Learning (2 credit hours)**

Contributions student make beyond their professional role through interaction and service are experienced through practical application. Emphasis on developing the role and responsibility of the physical therapist within a given community.

**PT 8698 Group Independent Studies (1-3 units)**

Prerequisite: Acceptance to program as a student with advanced standing. Students will work in small groups to fulfill competency in a specified area of physical therapy practice. Course content and assignments will be individualized to meet the group's needs.

**PT 8699 Individual Independent Studies (1-3 units)**

Prerequisite: Acceptance to program as a student with advanced standing. Students will work on individual assignments/projects to fulfill competency in a specified area of physical therapy practice. Course content and assignment will be individualized to meet the student's needs.

**COURSE DESCRIPTIONS FOR STUDENT ENTERING PRIOR TO FALL 2010****PT 5142 Clinical Education and Professional Development II (1 credit hour)**

Prerequisite: PT 5141. This course will continue from PT 5141 on various aspects of clinical education and professional development, including expectations of clinical performance by the Clinical Instructor, communication and interviewing skills, elements of professional practice, assertiveness training, use of feedback, and utilization of the evaluation tool. Scheduling and assignment for Clinical Education II will also be incorporated herein. CR/NCR.

**PT 5143 Clinical Education and Professional Development III (1 credit hour)**

Prerequisites: PT 5141, 5142. This course will continue from PT 5142 on various aspects of clinical education and professional development including issues of conflict management, new graduate employment opportunities and the licensure process, transition to becoming a Clinical Instructor, and facilitation of interpersonal and communication skills. Scheduling and assignment for Clinical Internships I and II will also be incorporated herein. CR/NCR.

**PT 5200 Differential Diagnosis of Musculoskeletal Disorders (2 credit hours)**

Prerequisite: PT 5029, 5030, 5035, 5050, 5055, 5075, 5100, 5230. This course has two major sections: 1) foundational concepts for diagnosis and treatment decision making; 2) regional topics on clinical pathology with specific regional applications of physical therapy diagnosis and treatment problem-solving. Topics include lumbar spine, pelvis, hip, knee and ankle, post-operative care, fracture-related care, and multiple region problems. The course applies a mixed traditional, team-based and problem-based approaches to learning. Discussions about the key clinical pathologies, epidemiology, etiology, and medical management provide the foundational concepts for clinical decision making. These concepts, as well as examination and treatment findings, are based on the major musculoskeletal practice patterns described in the *Guide to Physical Therapist Practice, 2<sup>nd</sup> ed., Revised*. Using the case study context, students learn to differentiate between musculoskeletal conditions and rule out problems outside the scope of physical therapy practice.

**PT 5205 Evaluation and Treatment of Upper Quarter Musculoskeletal Dysfunction (6 credit hours)**

Prerequisites: PT 5015, 5030, 5035, 5050, 5055, 5070, 5075, 5100, 5200, 5210, 5230, 5235. Evaluation and treatment of crano-facial region, cervical spine, upper extremity, and upper trunk musculoskeletal problems using a regional approach. Content includes subjective interview, physical examination, treatment and documentation of specific problems of the hand, wrist and forearm, elbow, shoulder and scapula, thoracic and cervical spine, and head. Foundational content from PT 5210 including the framework for subjective and objective examinations, assessment, and treatment of patients, is applied to upper quarter body regions. Common single and multi-region problems also covered. Lecture and Laboratory.

**PT 5210 Evaluation and Treatment of Lower Quarter Musculoskeletal Dysfunction (6 credit hours)**

Prerequisites: PT 5030, 5035, 5050, 5055, 5070, 5075, 5100, 5230, and concurrent enrollment in PT 5015, 5200, 5235. Evaluation and treatment of neuromusculoskeletal problems of the lower extremity and lower trunk using a regional approach. Included topics: foundational concepts necessary for evaluation and treatment of neuromusculoskeletal problems, such as principles and practice of muscle strengthening, muscle endurance, muscle stretching, soft tissue mobilization, joint mobilization, and PNF. Other foundational content includes the framework for the subjective (interview) and objective (physical) examination of patients, including assessment and treatment. Framework is then applied using problem-solving and evidenced-based approach by region, individually and in combination, to the lumbar spine, sacroiliac joints and pelvis, hip, knee, ankle, and foot. Common single and multi-region problems are also covered, including pathological gait. The course will consist of lecture, discussion, demonstration and laboratory sessions.

**PT 5220 Principles of Teaching and Learning (2 credit hours)**

Prerequisites: Acceptance to the program. Teaching-learning theory applied to clinical practice with patients and their families, peers, and students. Teaching techniques provided for successful audience learning in a variety of settings and towards a diverse group is a focus of the course.

**PT 5230 Medical Screening & Systems Review I (2 credit hours)**

Prerequisite: Acceptance to the program. This course provides an introduction of pharmacodynamics and key lab values and their importance in PT decision making. The course covers general medical conditions and their epidemiology, etiology, clinical manifestations, medical management, and issues related to PT examination, screening, and intervention.

**PT 5235 Medical Screening & Systems Review II (2 credit hours)**

Prerequisite: PT 5230. Continuation of PT5230. Includes labs on physical exam related to visceral structures for purposes of medical screening and indications for referral to medical practitioner or other appropriate health care providers. Lecture and laboratory.

**IPE 6000 Patient Centered Cases II– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 5100.

**PT 6000 Neuroanatomy (4 credit hours)**

Prerequisite: pt 5029, 5030, 5035. This course is a survey of the major nuclei, tracts, and systems that comprise the central nervous system (CNS). Important aspects of this course are the three-dimensional relationships, connectivity, function and deficits after injury to the CNS.

**PT 6005 Neurophysiology (4 credit hours)**

Prerequisite: PT5100. This course will examine the cellular and molecular features of human neurophysiology in the normal central and peripheral nervous systems. These features will be correlated with nervous system function and alterations related to injury.

**PT 6010 Evaluation and Treatment of Neurological Disorders I (4 credit hours)**

Prerequisite: PT 5050, 5055, 5205, 5210; concurrent enrollment in PT 6000, 6005, 6015. This course will introduce the student to the physical therapy management of patients with nervous system dysfunction, focusing on dysfunction as a result of a central nervous system (CNS) lesion. Lecture, laboratory, and hands-on assessment and treatment of individuals with CNS dysfunction will be employed. Emphasis will be placed upon patient evaluation and the development of appropriate treatment fundamentals.

**PT 6011 Evaluation and Treatment of Neurological Disorders II (4 credit hours)**

Prerequisite: PT 5070, 6010, 6015. This course will continue in the physical therapy management of patients with nervous system dysfunction, focusing on dysfunction as a result of a central nervous system (CNS) lesion. Lecture, laboratory, and hands-on assessment and treatment of individuals with CNS dysfunction will be employed. Emphasis will be placed upon patient evaluation and the development of appropriate treatment fundamentals.

**PT 6015 Differential Diagnosis of Neurological Disorders (4 credit hours)**

Prerequisites: PT 5230, 5235; concurrent enrollment in PT 6000, 6005, 6010. The purpose of this lecture course is to provide the student with a systematic review of peripheral and central nervous system clinical disorders. Emphasis will be on the pathophysiology and pathology, differential diagnosis, the use of clinical reasoning frameworks and disablement models, and prognosis of neurologic disorders most frequently encountered in physical therapy practice.

**PT 6020 Principles of Electrotherapeutic Evaluation and Treatment (3 credit hours)**

Prerequisites: PT 5015, 5040, 5050, 5055, 5070, 5075, 5200, 5210, 5230, 5235. Clinical, scientific, and theoretical evidence, and the practical clinical applications of electrotherapeutic strategies in the physical therapy management of dysfunction. Includes basic foundational concepts in electrical stimulation and electrophysics, neurophysiology, electrical safety and instrumentation, and electrotherapy terminology; the parameters of electrical stimulation; and the neurophysiological and biological responses to electrical stimulation. Covers treatment purposes including muscle strengthening and endurance, functional electrical stimulation, spasticity control, denervated muscle stimulation, pain control, circulation enhancement, edema control, tissue healing, and iontophoresis. Evaluation of appropriateness of using a given electrotherapy device for the different treatment purposes. Lecture and laboratory.

**PT 6030 Physiology of Exercise (4 credit hours)**

Prerequisites: PT 5050, 5055, 5100. This course addresses bioenergetics, basic nutrition principles, therapeutic exercise, and exercise prescription based upon the acute and chronic physiological responses of the human body during exercise and other special conditions. The physiological basis of therapeutic exercise is the foundation for this course, which includes both lecture and laboratory. Participation in all physical activities is voluntary, but participation through observation and contribution to discussions are both required as part of the course. Lecture and laboratory.

**PT 6040 Evaluation and Treatment of Problems of the Cardiopulmonary System (4 credit hours)**

Prerequisites: PT 5050, 5055, 5100. This course serves as an introduction to evaluation and treatment of diseases of the cardio-pulmonary system. It will include physiology and pathophysiology, evaluation methods, treatment methods, and prevention with a focus on differential diagnosis. Lecture and laboratory.

**PT 6045 Differential Diagnosis of the Integumentary System/Wound Care (3 credit hours)**

Prerequisites: PT 5029, 5030, 5035, 5100. This course addresses the physiology of wound healing; pathology of integumentary systems disorders; differential diagnosis of wounds based on etiology; patient evaluation and wound tests and measures; as well as identification of factors that impede wound healing; medical and wound management including topical dressings, edema management, and biophysical technologies to facilitate the healing process. Lecture and laboratory; course may be offered on-line.

**PT 6050 Principles of Administration and Management (3 credit hours)**

Prerequisite: PT 5015. Organization and administration of a physical therapy department including budget considerations, hiring-interviewing techniques, marketing, and medical-legal issues.

**PT 6060 Prosthetics, Orthotics, and Gait (3 credit hours)**

Prerequisite: Acceptance to program. Evaluation and application of prosthetic and orthotic devices to physical therapy clients. Evaluation of abnormal or pathological gait patterns. Lecture and laboratory.

**PT 6070 Prevention and Management of Problems in the Aging Adult (3 credit hours)**

Prerequisites: PT 5000 through 5120, 5200 through 5230, 6000 through 6040. Systematic, problem solving approach to the elderly patient/client with emphasis on prevention, etiology, clinical manifestations, evaluation, treatment and resources.

**PT 6075 Prevention and Management of Problems in the Pediatric Population (3 credit hours)**

Prerequisite: PT 5030, 5035, 5070, 5100, 5120, 6000, 6005 and 6010. Systematic, problem solving approach to the pediatric client with emphasis on prevention, etiology, clinical manifestations, evaluation and treatment. Lecture and laboratory.

**IPE 6100 Patient Centered Cases III– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 6000.

**PT 6220 Application of Research to Clinical Practice (1 credit hour)**

Prerequisites: PT 5130 and 5140 or equivalent courses. Individual or group review of studies related to physical therapy. Includes evidence in the area of physical therapy administration and management. Students present on the research evidence and application to physical therapy practice.

**PT 6600 Strategies for Successful Learning (0 credit hours)**

Prerequisite: Acceptance to program. This course provides new students entering with advanced standing an introduction to the DPT program. Following an overview of the most important services, policies, instructional methods and resources, students will have an opportunity to assess their readiness for the program. The awareness, knowledge and skills derived from this part of the course will help ensure successful completion of the program. This course is provided on campus only and must be taken prior to beginning the first trimester in the program. CR/NCR.

**PT 7010 Clinical Education I (1.5 credit hours)**

Prerequisite: Satisfactory completion of Trimesters I and II. Forty hours per week for three weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of course content in Trimesters I and II (see curriculum overview for details) will be emphasized in this clinical experience. CR/NCR.

**PT 7020 Clinical Education II (6 credit hours)**

Prerequisite: Satisfactory completion of Trimesters I through IV. Forty hours per week for twelve weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of course content in Trimesters I through IV (musculoskeletal and/or cardiopulmonary pathologies – see curriculum overview for details) will be emphasized in this clinical experience. CR/NCR.

**PT 7030 Clinical Internship I (6 credit hours)**

Prerequisite: Satisfactory completion of PT 5000 through 5075, 5100 through 5143, 5200 through 5235, 6000 through 6075, 6220, 7010-7020, 8100 through 8110, and 8500. Forty hours per week for twelve weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of all course content in Trimesters I through VIII will be emphasized in this clinical experience. CR/NCR.

**PT 7040 Clinical Internship II (6 credit hours)**

Prerequisites: Satisfactory completion of PT 5000 through 5075, 5100 through 5143, 5200 through 5235, 6000 through 6075, 6220, 7010-7030, 8100 through 8110, and 8500. Forty hours per week for twelve weeks under the direct supervision of a physical therapist serving as the clinical instructor. Application of all course content in Trimesters I through VIII will be emphasized in this clinical experience. CR/NCR.

**PT 8100 Pharmacology for the Physical Therapist (3 credit hours)**

Prerequisite: PT 5100, 5230, 5235 or equivalent courses. Basic and applied pharmacology for the physical therapist. Includes the effects of pharmacotherapy on the health and well being of patients.

**PT 8110 Structural Imaging in Physical Therapy Diagnosis (3 credit hours)**

Prerequisite: PT 5030, 5035, 5050, 5055, 5100, 5230, 5235. This course will familiarize the DPT student with the indication, instrumentation, and clinical interpretation of orthopedic imaging techniques, including plain film x-ray, magnetic resonance, computerized tomography, and radioisotope imaging. Selection protocols for each will be discussed to acquaint the student with advantages and disadvantages of each method and what type of information each technique best presents. This course will focus on the clinical interpretation and practical integration of imaging data into rehabilitation regimen design and communication with other medical professionals. Course may be offered online.

**PT 8120 Medical Screening and Differential Diagnosis (4 credit hours)**

Prerequisite: Acceptance to the program as a student with advanced standing. The course uses a systems approach to discuss common medical conditions, their epidemiology, etiology, clinical manifestations, medical management and issues related to PT screening, examination, interventions, and red flags. An introduction to differential diagnosis and systems review in physical therapy is provided with emphasis on the integumentary system. Includes labs on physical exam related to visceral structures for purposes of medical screening and indications for referral to medical practitioner or other appropriate health care providers. May include online lectures/discussions and in class laboratory.

**PT 8130 Advanced Differential Diagnosis I (2 credit hours)**

Prerequisites: PT 8120 and licensed physical therapist with at least one year of clinical experience. This course includes detailed skills for differentiating pathologies within the musculoskeletal system as described in the *Guide to Physical Therapist Practice*. The reliability and validity of relevant PT tests and measures will be explored. The physical therapist will develop higher level clinical reasoning skills related to developing a PT diagnosis and interventions. Cases will include those with complex presentations, multi-systems involvement, and will encompass the life span.

**PT 8133 Advanced Differential Diagnosis II (2 credit hours)**

Prerequisite: PT 8120 and licensed physical therapist with at least one year of clinical experience. This course includes detailed skills for differentiating pathologies within the cardiovascular and pulmonary systems as described in the *Guide to Physical Therapist Practice*. The reliability and validity of relevant PT tests and measures will be explored. The physical therapist will develop higher level clinical reasoning skills related to developing a PT diagnosis and interventions. Cases will include those with complex presentations, multi-system involvement, and will encompass the life span.

**PT 8135 Advanced Differential Diagnosis III (2 credit hours)**

Prerequisites: PT 8120 and licensed physical therapist with at least one year of clinical experience. This course emphasizes skill development in the physical therapy diagnosis of the adult with a neuromuscular disorder. The process of identifying the cause of functional limitations, which can be addressed by physical therapy intervention, will be emphasized. This will include skills in evaluating, treating and documenting impairments, as well as analyzing the relationship between impairments and functional movement. This course will also include a review of the common impairments for select neurological pathologies and current information from the motor control and motor learning literature, which may influence intervention strategies.

**PT 8200 Professional Leadership and Ethics (2 credit hours)**

Potential leadership roles of the physical therapist will be discussed. Issues related to professional development and reflective practice, collaboration with other health care providers, and knowledge of advocacy will be examined. Group discussions will include legal/ethical issues experienced in the clinical setting and in relation to the role of the physical therapist in primary care/direct access.

**PT 8210 Documentation and Health Care Financing (2 credit hours)**

Government, private insurance and managed care changes in health care financing will be presented. Students will review and critique documentation as a means to developing their own skills in this area.

**PT 8230 Wellness and Prevention/Community Education (3 credit hours)**

The application of primary, secondary and tertiary prevention and the therapist's role in wellness and health promotion will be discussed. Teaching/learning principles are applied to community education programs including those related to wellness, prevention and health promotion.

**PT 8400 Research Investigation (0-2 credit hours)**

Prerequisites: PT 5130, 5140, 6200. Students have the option to carry out the proposal developed in PT 6220 Application of Research to Clinical Practice under the supervision of faculty or senior investigator. Final project includes write-up of results in journal format. CR/NCR.

**PT 8500 Selected Topics (2-4 credit hours)**

Prerequisite: Approval of instructor. Special topics in physical therapy presented in workshop format. Laboratory experiences may be included. Students, subject to faculty approval, have the option to complete a specialized four week clinical experience in lieu of some coursework. CR/NCR.

**PT 8698 Group Independent Studies (1-3 units)**

Prerequisite: Acceptance to program as a student with advanced standing. Students will work in small groups to fulfill competency in a specified area of physical therapy practice. Course content and assignments will be individualized to meet the group's needs.

**PT 8699 Individual Independent Studies (1-3 units)**

Prerequisite: Acceptance to program as a student with advanced standing. Students will work on individual assignments/projects to fulfill competency in a specified area of physical therapy practice. Course content and assignment will be individualized to meet the student's needs.

**HONORS AND AWARDS**

The following awards are presented to PT students annually:

- Physical Therapy Faculty Award
- Physical Therapy Outstanding Clinical Performance Award
- Physical Therapy Academic Achievement Award
- John Wallace Award
- Class Morale Award
- Rebecca E. Pabst Memorial Scholarship Award
- Bertha Oliver Memorial Award
- Dean's Award
- The Roy G. and Marion L. Kramer Endowment Award
- Leadership and Service Award (Advanced Standing students)
- Alumni Award (Advanced Standing students)
- The Phoenix Award (Entry or Advanced Standing students)

**DPT Program**  
**ACADEMIC CALENDAR**  
2010-11 Academic Year  
(subject to change)

Monday, Jul. 5, 2010 Independence Day Observed- No Classes	Monday, Mar. 14, 2011 Spring Break Begins
Thursday, Aug. 5 – Saturday, Aug. 7, 2010 Orientation, DPT '13	Monday, Mar. 21, 2011 Classes Resume
Saturday, Aug. 7, 2010 Convocation, DPT '13	Friday, Mar. 25, 2011 DPT '12 Trimester V Ends
Monday, Aug. 9, 2010 DPT '13 Semester I begins	Friday, Apr. 15, 2011 DPT '13 Semester II Ends
Monday, Aug. 30, 2010 DPT '12 Trimester IV Begins DPT '11 Trimester VII Begins	Monday, Apr. 18, 2011 DPT '12 Trimester VI Begins
Monday, Sept. 6, 2010 Labor Day Holiday - No classes	Monday, April 25, 2011 DPT '13 Semester III Begins
Monday, Oct. 11, 2010 Columbus Day - No classes	Friday, May 6, 2011 DPT '11 Trimester VIII Ends
Thursday, Nov. 24-Nov. 28, 2010 Thanksgiving Break - No classes	Thursday, May 19, 2011 DPT '11 Commencement
Monday, Nov. 29, 2010 Classes Resume	Tuesday, May 23, 2010 DPT '11 Trimester IX Begins
Friday, Dec. 10, 2010 DPT '13 Semester I ends DPT '12 Trimester IV ends DPT '11 Trimester VII ends	Monday, May 30, 2011 Memorial Day – No Classes
Monday, December 13, 2010 Winter Break Begins	Monday, July 4, 2011 Independence Day Observed-No Classes
Monday, Jan. 3, 2011 DPT '13 Semester II Begins DPT '12 Trimester V Begins DPT '11 Trimester VIII Begins	Friday, July 22, 2011 DPT '13 Semester III Ends
Monday, Jan. 17, 2011 Martin Luther King Day – No Classes	Friday, Aug. 5, 2011 DPT '12 Trimester VI Ends
Monday, Feb. 21, 2011 President's Day – No Classes	Monday, Aug. 8, 2011 DPT '13 Semester IV Begins
	Friday, Aug. 12, 2011 DPT '11 Trimester IX Ends

# **COLLEGE OF ALLIED HEALTH PROFESSION**

## **Master of Science in Physician Assistant Studies**

### **Department of Physician Assistant Education**

#### **THE PHYSICIAN ASSISTANT ROLE**

Physician assistants are health care professionals licensed to practice medicine with physician supervision. Within the physician/physician assistant relationship, physician assistants exercise autonomy in medical decision making and provide a broad range of diagnostic, therapeutic, preventive, and health maintenance services. The clinical role of the physician assistant includes primary and specialty care in medicine and surgical practice settings. Physician assistant practice is centered on patient care and may include educational, research and administrative activity. As part of their comprehensive responsibilities, PAs conduct physical exams, diagnose and treat illnesses, order and interpret tests, counsel on preventive health care, assist in surgery, and can write medical orders.

The role of the physician assistant demands intelligence, sound judgment, intellectual honesty, appropriate interpersonal skills, and the capacity to react to emergencies in a calm and reasoned manner. An attitude of respect for self and others, adherence to the concepts of privilege and confidentiality in communicating with patients, and a commitment to the patient's welfare are essential attributes.

The specific tasks performed by an individual physician assistant cannot be delineated precisely because of variations in practice requirements mandated by geographic, political, economic, and social factors. At a minimum, however, physician assistants are educated in those areas of basic medical science and clinical disciplines and specific problem solving.

Physician assistant practice is characterized by clinical knowledge and skills in areas traditionally defined by family medicine, internal medicine, pediatrics, obstetrics, gynecology, surgery, and psychiatry/behavioral medicine.

Physician assistants practice in ambulatory, emergency and long-term settings. Physician assistants provide health care services to diverse patient populations of all ages with a range of acute and chronic medical and surgical conditions. They need knowledge and skills which allow them to function effectively in an ever changing health care environment.

Services performed by physician assistants include, but are not limited to the following:

1. Evaluations: eliciting a detailed and accurate history, performing an appropriate physical examination, ordering appropriate diagnostic studies, delineating problems, developing management plans, and recording and presenting data.
2. Diagnostics: ordering, performing and/or interpreting diagnostic studies to identify and follow pathophysiology process.
3. Monitoring: implementing patient management plans, recording progress notes and participating in the process of the continuity of care.
4. Therapeutic: performing therapeutic procedures and managing or assisting in the management of medical and surgical conditions, which may include assisting surgeries in the conduct of operations and taking initiative in performing evaluations and therapeutic procedures in life-threatening procedures.
5. Patient Evaluation: counseling patients regarding issues of health care management to include compliance with prescribed therapeutic regimens, normal growth and development, family planning, and emotional problems of daily living.
6. Referral: facilitating the referral of patients to other health care providers or agencies as appropriate.

#### **MISSION STATEMENT**

The Department of Physician Assistant Education supports the University's mission by developing future Physician Assistants through education, experience and professional role-modeling to deliver high quality and compassionate health care as interprofessional team members.

## **VISION STATEMENT**

The Western University of Health Sciences Department of Physician Assistant Education will be nationally respected and recognized as an innovative leader in Physician Assistant education. Our faculty will be leaders in our profession as educators and clinicians who will educate a diverse student body to provide compassionate and comprehensive health care.

Our students, graduates and faculty will demonstrate lifelong learning and serve in key leadership positions to impact the future of the physician assistant profession. Our graduates will be in high demand by the health care community through interprofessional partnerships that will increase accessibility to comprehensive patient care for all populations.

## **ACCREDITATION**

The Primary Care Physician Assistant Program of the College of Allied Health Professions is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA).

### **Certification/Licensure**

The written examination for certification as a physician assistant is administered by the National Commission on Certification of Physician Assistants (NCCPA) three times yearly. Successful completion requires that the applicant achieve the passing score established by the NCCPA for that examination. It is the responsibility of the applicant to ensure that certification of his or her examination score is received by the Physician Assistant Committee (PAC). The NCCPA phone number 678-417-8100. The PAC phone number is 916-263-2323.

The PAC may grant interim approval to practice as a PA in those circumstances where the applicant has completed an approved PA training program and has applied to take the PANCE following graduation. The initial request for interim approval must be signed by the applicant and list the name(s) of applicant's physician supervisor. An applicant may not begin practicing with a requested supervisor(s) until the applicant receives written authorization from the PAC. If the applicant fails the PANCE examination, the interim approval automatically terminates upon the applicant's receipt of notice of failure by the PAC or by the NCCPA.

An applicant who has been granted interim approval and who is subsequently notified by the NCCPA or by the PAC that he or she has passed the examination shall complete the licensure process by paying the initial licensure fee as requested within 90 days from notification that the applicant is now ready for licensure. If the applicant does not complete the licensure process by end of the 90-day period, the interim approval shall automatically terminate. Applicants who do not pass the national certifying exam, can not work as a PA. The applicant may retake the exam per the guidelines posted by the NCCPA.

## **PROGRAM GOALS**

The primary goal of the Western University Physician Assistant Program is to educate individuals to serve as physician assistants in primary care medicine. PA students are educated to provide health care to all patient populations. PAs work with the direction and supervision of a physician. The education provided by the program will prepare the entry-level graduate with the knowledge skills and attitudes to perform in a primary care setting and function in a variety of roles within numerous clinical settings. The program goal of educating individuals to serve as PAs in primary care medicine is founded on the understanding that the broad-based education needed to prepare an individual to serve in a primary care setting is the most effective form of initial preparation. This goal also permits the development of attributes that will serve the graduate in the greatest spectrum of potential employment opportunities.

The program has also established the goal of incorporating elements of osteopathic philosophy into physician assistant education. These elements include:

- Caring for, and appreciation of, the patient as a whole person.
- Emphasis on those aspects of health education that stress health promotion and disease prevention.
- An appreciation of the role of physical assessment in the diagnosis and management of illness.

The curriculum is designed to accomplish the following objectives. Students attain these objectives as they progress through the curriculum.

## **Knowledge**

Upon completion of this program the graduate should know:

1. The pre-clinical, clinical and behavioral sciences that form the foundation for functioning as a PA.
2. The spectrum of normal measurements that define the healthy individual at all ages.
3. The pathophysiologic processes that commonly cause deviations in normal clinical measurements.
4. The fundamentals of health maintenance.
5. Patient management regimens for common primary health care problems.
6. Accepted strategies for disease prevention.
7. How to apply a systematic process of problem solving to the diagnosis of disease.
8. The components of normal human behavior and the major deviations from these patterns.
9. The health care resources available to the health care provider and patient.
10. The role of the physician in a variety of health care environments.
11. How the various health care delivery systems function and the role of the PA within each system.
12. The general principles of managed care as they apply to patients and primary care providers.
13. The fundamentals of various types of research modalities.
14. The research modalities and applications for problem solving in regards to disease, health promotion and disease prevention.

## **Skills**

Upon completion of this program the graduate should be able to:

1. Obtain a medical history.
2. Perform a complete physical examination.
3. Perform and interpret diagnostic tests.
4. Accurately report information obtained from a patient.
5. Manage, with the supervision of a physician, common health care problems.
6. Assess mental health status.
7. Recognize signs and symptoms of disease processes.
8. Communicate empathetically with a patient.
9. Formulate differential diagnosis to aid in diagnosis.
10. Critically interpret medical literature and apply it appropriately in clinical practice.
11. Gather community resources for patients.
12. Implement community health projects and guidelines.
13. Participate in quality assurance programs.
14. Develop health care resources for other providers and patients.
15. Participate in medical research activities.

## **Attitudes**

Program graduates should exhibit respect and appreciation for:

1. All individuals who seek their care.
2. Self and other members of the health care team/profession.
3. An individual's right to confidentiality.
4. The sanctity of human life.
5. The dignity of patients.
6. The multiple physical and emotional factors that influence the health of individuals.
7. The many value systems in our society.
8. The importance of continuing medical education after graduation.
9. The effectiveness as a contributing team member in health care.
10. An increased PA role in regards to the medical community, health care delivery systems and the patient.

## **FUNCTIONS AND TASKS OF PHYSICIAN ASSISTANT GRADUATES**

### **General Entry-Level Competencies Expected of a Graduate**

The physician assistant will be able to:

- Elicit a comprehensive, accurate history and perform a complete routine physical examination on patients of any age group; elicit a pertinent and accurate history and perform a problem-oriented screening examination in situations requiring an interval evaluation.
- Select, perform and/or interpret the appropriate routine laboratory and diagnostic studies/ procedures for the purpose of completing an adequate data base.

- Identify problems, organize and integrate data, record and present.
- Accurately present an oral case.
- Implement a management plan, including performing or assisting.
- Instruct and counsel patients regarding physical and mental health to include diet, health maintenance, therapy, normal growth and development, family planning, referral and follow-up services.
- Provide life support and emergency evaluation/care in response to life-threatening situations in the absence of a physician and/or other appropriate health professionals.
- Initiate and follow up on appropriate referrals to specialists.

### **Associated Competencies**

In addition to the above entry-level competencies, physician assistant graduates are expected to function in a variety of environments, interact appropriately with diverse populations, and engage in many activities for continued professional and personal growth. The role of the physician assistant as a primary health care provider imposes many legal and ethical restrictions on behavior. Although not strictly related to the "clinical role" of the physician assistant, there are a large number of activities that contribute to the broad process of "professional development" and "role identity" which are essential for optimal performance as a health professional. These activities are related to areas such as administration, education, consultation, ethical, and legal considerations of the profession. The program will endeavor to provide its students with educational experiences that will introduce these attitudinal objectives.

### **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

A candidate for admission to the Primary Care Physician Assistant Program must have the use of certain sensory and motor functions to permit them to carry out the activities described in the sections that follow. Graduation from the program signifies that the individual is prepared for entry into clinical practice or into postgraduate training programs. Therefore, it follows that graduates must have the knowledge and skills needed to function in a broad variety of clinical situations and to render a wide spectrum of diagnostic and therapeutic care. The candidate and student must be able consistently, quickly and accurately to integrate all information received by whatever sense(s) are employed. Also, they must have the intellectual ability to learn, integrate, analyze and synthesize data.

A candidate for the Master of Science in Physician Assistant Studies degree ordinarily must have abilities and skills of five varieties including: observation; communication; motor; intellectual, conceptual, integrative and quantitative; and behavioral and social. Where technological assistance is available in the program, it may be permitted as a reasonable accommodation when appropriate. Under all circumstances, a candidate should be able to perform in a reasonably independent manner.

- a. Observation: Candidates and students ordinarily must have sufficient vision to be able to observe demonstrations, experiments and laboratory exercises. They must be able to observe a patient accurately at a distance and close at hand.
- b. Communication: Candidates and students must be able to communicate with patients and colleagues. They should be able to hear, with or without a reasonable accommodation. Candidates and students must be able to read, write, and speak English.
- c. Motor: Candidates and students ordinarily should have sufficient motor function such that they are able to execute movements reasonably required to provide general care and emergency treatment to patients. Examples of emergency treatment reasonably required of physician assistants are cardiopulmonary resuscitation, administration of intravenous medication, the application of pressure to stop bleeding, the opening of obstructed airways, the suturing of simple wounds, and the performance of simple obstetrical maneuvers. These actions require coordination of both gross and fine muscular movements, equilibrium and functional use of the senses of touch and vision.
- d. Intellectual, Conceptual, Integrative and Quantitative Abilities: These abilities include measurement, calculation, reasoning, analysis and synthesis. Problem solving, the critical intellectual skill demanded of a physician assistant, requires all of these intellectual abilities. In addition, candidates and students should be able to comprehend three-dimensional relationships and understand the spatial relationships of structures.
- e. Behavioral and Social Abilities: Candidates and students must possess the emotional health required for full utilization of the intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the assessment and care of patients, and the development of mature, sensitive and effective relationships with patients. Candidates and students must be able to tolerate physically taxing

workloads, adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of many patients. Compassion, integrity, concern for others, interpersonal skills, interest and motivation are all personal qualities to be assessed during the admissions and educational processes.

The Primary Care PA Program, along with all the other programs at Western University of Health Sciences, shares a commitment to develop creative ways of opening the PA curriculum to competitive, qualified disabled individuals. In doing so, however, the Primary Care PA Program must maintain the integrity of its curriculum and preserve those elements deemed essential to educating candidates to become effective physician assistants.

## **ADMISSIONS POLICIES AND PROCEDURES**

Admission to the PA program is on a competitive basis and is open to citizens and permanent residents of the United States. Western University is committed to admitting competitive, qualified disabled individuals. For technical guidelines, please see **Personal Competencies for Admission and Matriculation**.

### **Application Requirements**

The admissions committee will consider applicants with a minimum of a bachelor's degree from a regionally accredited institution or who will complete their bachelor's degree before matriculation. The minimum overall GPA required is 2.7, the minimum science GPA is 2.7, and the prerequisite GPA is 2.7, all on a 4.0 scale. Grades of "C-" in any of the prerequisite courses are not accepted. Candidates should possess the oral and written communication skills necessary to interact with patients and colleagues.

#### **1. Prerequisite Courses:**

College English and English Composition\* (6 semester units, a full year sequence)

College Algebra (3 semester units)

Human Anatomy with lab\*\* (3 semester units)

Human Physiology with lab\*\* (3 semester units)

Microbiology with lab (3 semester units)

General or Inorganic Chemistry with lab (6 semester units, a full year sequence)

Psychology (General or Introductory only - 3 semester units)

Sociology (General or Introductory only - 3 semester units)

Humanities (9 semester units)

Introductory Statistics (3 semester units, preferably from the math or statistics department)

Spanish is encouraged to enhance success in the program.

Genetics (3 semester units)

\***Note:** English prerequisites must be taken from the English department. English as a Second Language (ESL) courses are not accepted for the English prerequisites.

\*\***Note:** Anatomy and physiology must be taken out of the anatomy, physiology, A&P, biology, or zoology departments. If anatomy and physiology are combined, a minimum of five semester units is required.

Advanced placement, transfer of credit, CLEP examination, or credit for experiential learning is not recognized by the program as meeting these prerequisites.

Introductory level courses in the sciences are not acceptable (i.e., courses taken in the sciences for non-science majors).

Prerequisite courses must be transferable. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses.

#### **2. Health Care Experience**

Health care experience is not required. However, engagement in extracurricular or community activities that reflect people or service orientation is considered essential. The extracurricular or community activity does not need to be medical in nature.

### **Application Procedures and Deadlines**

The Central Application Service for Physician Assistants (CASPA) was created by the Physician Assistant Education Association (PAEA) as a service to applicants and member programs. CASPA will collect one set of materials from each applicant. CASPA will then authenticate, photocopy, and distribute them to each member

school an applicant designates. Western University's application deadline to apply to CASPA is November 1 of the year prior to beginning the PA program. Applicants are considered without discrimination on the basis of race, color, national origin, age, or gender.

To request an informational brochure and/or information about the CASPA application, contact the Office of Admissions or the CASPA office at:

Office of Admissions  
Western University of Health Sciences  
309 E. Second Street  
Pomona, CA 91766-1854  
(909) 469-5541

CASPA  
<http://www.caspaonline.org>  
(617) 612-2080

After the CASPA application has been received and evaluated by the Admissions Department, a supplemental application (provided by Western University) will be available on-line to all applicants who meet the overall and science GPA minimums of 2.7. However, this does not ensure that the applicant will meet the minimum prerequisite of 2.7 or that all prerequisite classes will be acceptable. A final evaluation and calculation will be completed upon receipt of your supplemental application. The supplemental application deadline is 30 days after receiving notification to file a supplemental application or February 1 of the year in which the applicant intends to matriculate in the PA program, whichever comes first. The supplemental application consists of forms requesting additional information, one letter of reference, and a personal statement. A non-refundable application fee of \$50 must be submitted with the supplemental application materials. All application materials must be returned as part of one supplemental application packet.

Applicants who have undertaken any coursework outside of the United States must submit their transcripts for evaluation to World Education Services or Josef Silny and Associates. In preparation for CASPA, a course-by-course evaluation is required, and all course work must be designated as undergraduate, graduate, or professional. Western University will only honor evaluations from the above services. The evaluation must be submitted to CASPA.

Once the applicant's personal statement and file is reviewed, the applicant may be granted an on-campus interview. During the interview process, the applicant meets individually with an interview team, which may consist of the PA Program Director, PA Admissions Committee Chair, PA faculty, Dean of the College of Allied Health Professions, University faculty, students, PA alumni, and community PAs. The interviewers question the applicant regarding academics, personal preparedness and commitment to the PA program and the PA profession. Interviewees are rated on a standard evaluation form relative to each of these variables. After the conclusion of the interviews, the evaluation forms are reviewed by the PA Admissions Committee, which decides to admit, deny admission, or place the applicant on an alternate list. An applicant previously on the alternate list must reapply for admissions into the PA Program. The Western University PA program does not accept transfer students, nor is admission to the program deferrable. Decisions of the Admissions Committee regarding the admission of applicants to the Master of Science in Physician Assistant Studies program are final. Candidates accepted to Western University must have a complete set of official transcripts mailed to the Admissions Office no later than July 1 of the year of matriculation in the PA program. For your information, CASPA retains the original set of transcripts it receives from applicants.

## **Registration**

First year students are required to register by the registration day specified in the University Calendar. Failure to register on that day may be grounds for dismissal. Full tuition and fees and all prior debts must be paid in full on or before registration day each academic year. Matriculation is subject to the satisfactory completion of all academic requirements and payment of all outstanding debts to the University. The receipt of a final transcript(s) from all colleges/universities attended and a physical examination with documentation of required immunizations prior to registration are additional requirements for incoming students. Also, all students must show proof of current health insurance coverage at the time of registration. This coverage must be maintained or in effect throughout the academic year. If there is no proof of current coverage, a policy provided by the University is available. Attendance at Orientation is mandatory for all incoming first-year students.

## **TUITION AND FEES**

By action of the Board of Trustees, PA tuition and fees for the 2010-2011 academic year (subject to change) are as follows:

\$30,920	Tuition, Annual For PA applicants accepted at Western University, an entrance fee of \$500 payable upon acceptance is applied to tuition.
\$40	Student Body Fee, 1 <sup>st</sup> year Covers student council expenditures, social activities and public relations.
\$20	Student Body Fee, 2 <sup>nd</sup> year

## **Other Fees and Expenses**

\$1900	Required and Recommended Texts
\$45	Uniform Jacket/Patch, Name Badge
\$1200	Diagnostic Equipment Kit
\$60	Criminal Background Investigation (approx.)
\$40	Drug Screen (approx.)
\$30	(per day) Late Registration Fee
\$200	Graduation Fee (assessed on candidates for graduation only)
\$400	(annual) Western University Parking Permit Fee
\$40	Lost Mail Locker Key
\$6	(each) Copy of Official Transcript
\$21	(each) Rush Transcript, First Class Mail
\$25	(each) Rush Transcript, Federal Express
\$10	Lost ID Badge
\$0.25 (per page)	Copy of Student File Material
(replacement cost)	Breakage Fee

The Department of Physician Assistant Education requires that each PA student purchase a classroom audience response system from the University Bookstore. Individual responders must be registered to only one (1) student. Classroom responders are electronic devices that will be used to enhance interactive learning in classrooms. The device will enable faculty to gauge student understanding of concepts, introduce more innovative teaching and assessment methods, improve student involvement in learning, and facilitate classroom learning to become more dynamic. The responders will also be used to administer and score assessments. Therefore, PA students are also required to bring responders to each class.

## **ACADEMIC REQUIREMENTS**

### **Academic Advisement**

Students will be assigned a faculty advisor by the Dean or the Dean's representative upon matriculation. Advisement by faculty should be viewed by the student as a part of the academic process. The student or faculty member may seek a change of advisor/advisee. This request should be made to the Chair of the Department of Physician Assistant Education. It is the student's responsibility to meet periodically with his/her advisor. A student on probation must meet with his/her faculty advisor at least once a month.

### **Promotion**

A student's progress through the program is based upon successful completion of expected competencies and demonstration of expected professional behaviors and attitudes. At the completion of each phase of the program, before the student is allowed to progress to the next phase, the student's record of achievement is reviewed by the Program Chair and faculty.

The faculty determines if the student has demonstrated the knowledge, skills, and attitudes necessary to be eligible to progress to the next phase.

In special instances, the faculty may be convened at other than the scheduled times to consider cases relating to unusual circumstances, such as probation or dismissal.

Promotion is defined as progression from one academic semester or phase to the next.

- a. A student may not be recommended for progression from one semester or phase to the next with any outstanding grades of "I", "U" or "NCR" on his/her academic record or with a semester grade point average of 2.75 or less. Grades of "U" or "NCR" must be appropriately remediated before progression to the next semester or phase (see section entitled **Remediation**).
- b. When considering a student for promotion, professional, ethical, and personal conduct may also be taken into consideration (as described under Probation, a-5).
- c. A student will be promoted provided that all legal and financial requirements of the University as stated in the University Catalogue have been satisfied.

### **Graduation**

A student will be recommended for the Master of Science in Physician Assistant Studies Degree provided he/she:

- a. has completed at least two years of the Western University Primary Care PA program.
  - b. has been enrolled in the Western University Primary Care PA program during his/her final academic year.
  - c. is not on probation and has completed all prescribed academic and clinical requirements with a cumulative grade point average of above 2.75 and has no outstanding grade of "I," "NCR," or "U".
  - d. has demonstrated no serious deficiencies in ethical, professional, or personal conduct, as defined in Probation guidelines, which would make it inappropriate to award the degree of Master of Science in Physician Assistant Studies.
  - e. has complied with all the legal and financial requirements of the University as stated in the University Catalogue.
  - f. has attended in person and participated in the Commencement program at which time the Master of Science in Physician Assistant Studies is conferred, unless special permission is received from the President. If the President grants special permission to be excused from graduation, the graduate may be required to present himself or herself to the Dean of the College of Allied Health Professions at a later date in order to take the required oath (if relevant) to receive his or her degree.
  - g. is within four (4) clinical rotations of completion of all requirements for graduation to be able to march with his or her class in the graduation ceremony. At the discretion of the Dean of the College of Allied Health Professions, an exception may be made for a student with an authorized leave during the Senior year. No student will receive his or her degree until the student has completed all requirements for graduation.
- Degrees will be dated as appropriate to completion date.

### **Probation**

a. Probation is defined as a period of time specified by the Dean of the College of Allied Health Professions during which the student's progress will be closely monitored by the Allied Health Student Academic Progress Committee, faculty advisor and the Program Chairperson. In order to closely monitor 2<sup>nd</sup> year students on probation, the PA program reserves the right to assign their clinical rotations. A student will be recommended for probation and asked to appear at a Student Academic Progress Committee (SAPC) meeting for any of the following reasons:

1. For first year students, achieving a cumulative score of less than 70% in three or more courses at the end of the first nine weeks of the curriculum.
2. Immediately upon receiving a course grade of "U" or "NCR" in any course.
3. A grade point average of 2.75 or less.
4. When directed to repeat a year for academic reasons.
5. Seriously deficient ethical, professional or personal conduct. The Chair, Department of Physician Assistant Education may render a written recommendation, or invoke the College Conduct Committee to render a recommendation, to the Dean of the College of Allied Health Professions regarding any student whose professional or personal conduct is deemed unsatisfactory. Professional and personal conduct includes, but is not limited to, attendance, cooperation with faculty, interest shown in assigned work, attitude toward fellow students and associates and toward personnel of hospitals, approach to and interaction with patients, as well as personal appearance appropriate to the circumstances.

The terms of probation for ethical, professional, or personal conduct will be specified at the time the student is placed on probation.

- b. When a student is placed on probation, he/she will be notified in writing by the Dean of the College of Allied Health Professions and the reasons will be stated. The written notification will be sent via Certified

Mail, email with receipt confirmation, or hand delivered and acknowledged by signatures of the student and the Dean of the College of Allied Health Professions or his/her designee. Copies of the letter will be placed in the student's permanent file and distributed to the Chairman of the Allied Health Student Academic Progress Committee and the student's faculty advisor. The Allied Health Student Academic Progress Committee will ascertain when the terms of the probation have been satisfied and recommend to the Dean that probation can be rescinded.

- c. A student on probation may not serve as an officer of any official University club or organization and shall not engage in time-consuming extracurricular activities.
- d. A 1st year student on probation must meet with his/her faculty advisor at least once a month. A 2nd year student on probation must contact his/her Faculty Advisor once a month.
- e. Students are removed from probation when the following occur:
  - 1. At the end of the first semester of the first year provided that he/she has attained a grade point average of greater than 2.75.
  - 2. After one semester, provided he/she has regained both a semester and cumulative grade point average of greater than 2.75.
  - 3. When all "U" or "NCR" grades have been satisfactorily remediated according to the Remediation section of the Catalog (below).
  - 4. When the specified terms of probation for ethical, professional or personal conduct are met.
  - 5. When 2<sup>nd</sup> year students are on probation for a clinical rotation grade of "U", they will be removed from probation when they have met the terms of their probation.

#### **Remediation**

- a. Every effort will be made to give each student ample opportunity to demonstrate competency in each area of the academic program. However, remediation is to be regarded as a privilege that must be earned by a student through an active participation in the educational program as demonstrated by regular attendance, individual initiative, and utilization of resources available to him/her.
- b. If a student receives a "U" or "NCR" grade in a course or has a semester grade point average or cumulative grade point average of 2.75 or less, that student will be reviewed by the Allied Health Student Academic Progress Committee and procedures for remediation by the Physician Assistant faculty will be recommended to the SAPC, who in turn makes a recommendation to the Dean. In reviewing the student's academic deficiencies, the following guidelines shall be used:
  - 1. Educational objectives underlie remedial teaching and evaluation should be the same as the educational objectives that underlie regular courses in the curriculum. Where deemed appropriate, the Allied Health Student Academic Progress Committee, after consultation with the course instructor and/or Physician Assistant Faculty, may recommend one or a combination of the following options:
    - (a) Take a comprehensive examination (this option is not available if the student's final point scores for a course is below 65%).
    - (b) Complete special projects or studies in the deficient area(s).
    - (c) Repeat the course, with or without promotion into the subsequent semester. The student cannot start Phase II (clinical) or Phase III until the grade of "U" has been remediated.
    - (d) Repeat the academic year.
    - (e) Dismissal from the University (see *Dismissal* section for criteria for this option).
  - 2. Students receiving a "U" grade for a clinical rotation education/preceptorship will repeat the entire rotation/preceptorship. The above a-d options do not apply to clinical education. Students will not be allowed to advance to Phase III (Advanced Clinical Preceptorship) until all deficient clinical rotation education grades are completed/remediated. Remediation will delay the student's progress to preceptorship and extend the program completion date.
  - 3. The grade achieved by remediation will be the grade recorded EXCEPT that the highest grade a student may earn by options (a) or (b) is a grade of "C" or "CR". The grade achieved by remediation will be recorded on the transcript beneath the original grade.
  - 4. Grades earned during an attempted remediation of a course will be reviewed critically by the Allied Health Student Academic Progress Committee and the Dean of the College of Allied Health Professions. Failure to earn at least a "C" or "CR" grade may result in dismissal from the University or repeating the course.
  - 5. Decisions regarding remediation will be made on an individual basis after considering all pertinent circumstances in each case. The decision will be made by the Dean of the College of Allied Health Professions Education, based upon the recommendation of the Allied Health Student Academic

Progress Committee. The Allied Health Student Academic Progress Committee will base its recommendation on the student's academic record and considerations after consultation with the Physician Assistant Faculty Student Advisor, course instructor, and the student.

6. Any student who is required to remediate a course will be notified in writing by the Dean of the College of Allied Health Professions Education at least two weeks prior to the remediation date (or within two weeks after the close of the academic year in which the student is presently enrolled, whichever comes first). Notification must be by Certified Mail, email with receipt confirmation, or hand-delivered to the student and must be acknowledged with the signatures of the Dean of the School of Allied Health Professions, or his/her designee, and the student.

c. Students who have been required by the Dean of the College of Allied Health Professions to repeat a course(s) due to unsatisfactory grades (GPA) or in cases where there is a satisfactory GPA, but deficiencies are noted which impedes promotion, the following criteria must be met to be eligible for financial aid:

1. Full-time attendance recorded
2. Placed on at least one semester probation
3. Must be tested and graded
4. Close monitoring

It is the student's choice if he/she has made satisfactory progress such as GPA, but wants to audit only to strengthen skills, as long as he/she is fully aware he/she will not be eligible to apply for any financial aid. Students will be financially responsible for themselves until promoted by the Dean of the College of Allied Health Professions.

#### **Remediation: Financial Aid Policy**

If the student, at the end of the academic year, is still considered to be making unsatisfactory progress and must remediate, he/she is removed from the list of Title IV and Title VII financial aid recipients.

#### **Tutorial Assistance Program**

A Tutorial Assistance Program (TAP) has been established to assist students experiencing academic difficulty. Students will be recommended for this program by a faculty advisor or professor. Students may self-identify to TAP to receive assistance. The tutors will be chosen on the recommendation of the faculty in each discipline. For assistance, contact the Learning Enhancement and Academic Development Office.

#### **Standards of Academic Progress**

Good academic standing implies that a student has not been requested to withdraw and is not under academic probation/suspension.

Academic performance encompasses those areas of knowledge and skills outlined in the section entitled "Program Objectives". The level of attainment listed in these areas is that expected of graduates of the program. However, students are expected to attain these goals as they progress through the Program and certain patterns of attainment are expected along the temporal course of the curriculum.

All grading and evaluation is based on the student's ability to attain the competencies within the objectives outlined for each area of study.

A student whose performance falls below the minimum acceptable standard(s) for any area of study will be notified of such deficiency by the instructor of the course as soon as evidence of such sub-standard performance is available.

The following academic standards apply to students enrolled in the Primary Care Physician Assistant Program. Academic performance is considered sub-standard and unacceptable if any one or more of these standards are not met:

a. Phase I:

During Phase I (Didactic Phase), students must earn a minimum grade of "C" or "CR" in each course. All "U's" and "NCR's" will be remediated (see Remediation Section). If a remediated grade of "C" or "CR" is not earned, the student may be dismissed or be required to repeat the entire course of study.

Students must maintain a GPA of greater than 2.75 during Phase I. In addition, the following applies regarding cumulative GPA:

1. Students whose GPA is 2.75 or less must meet with their mentor prior to registration for the next semester.
  2. Students whose GPA is 2.75 or less are not eligible for further registration unless probationary status is granted by the Dean of the College of Allied Health Professions Education.
  3. Students will not be allowed to advance to Phase II (clinical education) until all deficient grades are remediated.
  4. First year students who receive a "U" or "NCR" in any course may only advance from one semester to the next with special consent from the Chair of the Department of Physician Assistant Education.
- b. Phase II (Didactic and Clinical):**
- Didactic: Senior Seminar I, II and III and Applied Clinical Project Courses
1. In Senior Seminar I and II, a grade of "C" or better must be earned. Clinical rotations may be reassigned by the Clinical Education Coordinator to assist the student academically if the student receives a grade of "C" or less.
  2. If a student receives a "U" in Senior Seminar I, he/she must repeat the course; however, the student is allowed to progress to Senior Seminar II. If the Student receives a "U" in Senior Seminar II, he/she must repeat the course, and he/she will not be able to advance to Phase III.
  3. If a student receives a "U" in Senior Seminar III, he/she must remediate the grade.
  4. If a student receives a "NCR" in Applied Clinical Project I, II or III, the grade must be remediated.
- c. Clinical: Clinical Education Phase II and Phase III**
- Students' progress through the program is based upon successful completion of expected competencies and demonstration of expected professional behaviors and attitudes. If students fail to meet the pre-designated clinical objectives, their academic achievements will be reviewed by the PA faculty. The faculty and preceptors determine if students have demonstrated the knowledge, skills and attitudes necessary to be eligible for progress to the next phase. Upon eligibility, the faculty recommends advancement to the Allied Health Student Academic Progress Committee.

If a student receives a grade of "U" in Phase II clinicals, he/she must repeat the rotation before advancing to Phase III. Clinical rotations may be assigned by the Clinical Education Coordinator.

The Allied Health Student Academic Progress Committee and the Professional Conduct Committee may be convened to consider cases relating to unusual circumstances.

### **Out-of-Area Clinical Education**

Clinical Education that is greater than 60 miles in any direction from Western University, Pomona Campus, is considered an out-of-area rotation clinical education. Permission for out-of-area rotations clinical education is granted by the Clinical Education Coordinators and the PA Faculty.

To participate in out-of-area rotations, students must:

- Have a computer with internet access.
- Exemplify ethical and professional behavior throughout their didactic and clinical rotations phase.
- Have a GPA of 3.0 at the time of rotation scheduling and maintain a semester and cumulative GPA of 3.0 for the entire program.
- Receive a "B" or better on all preceptor assigned grades and maintain a "B" or better in Senior Seminars I, II, and III.
- Have a 3.5 cumulative/semester GPA at the time of clinical education scheduling to participate in out of area rotations during the first and second months and the student will be returning to within the 60 miles radius by the third month of rotations.
- Provide the Clinical Education Coordinators with transportation and room and board for out-of-area site visits.
- Have confirmation of housing and travel arrangements available to the clinical coordinators at the time of scheduling.

The Clinical Education Coordinator has the right to reassign rotations if the preceding criteria are not met.

### **Clinical Rotation Education Assignment**

Clinical rotations will be assigned by the clinical coordinator(s) for students with semester or cumulative GPAs less than 3.0. The clinical coordinator(s) may seek input regarding rotation assignments from the PA faculty and/or chair. The student will meet with the clinical coordinator for their scheduling appointment to discuss the rotation assignments. If a student is successful in raising his or her semester and cumulative GPA to a 3.0 at the end of a semester, the clinical coordinator(s) will attempt to reschedule the rotations(s) if requested by the student, pending site availability. Students requesting to reschedule rotations based upon an improved GPA must follow the procedures outlined in the section entitled **Clinical Rotation Education Assignment Appeal** (below).

### **Clinical Rotation Education Assignment Appeal**

A change in clinical rotation education assignment may be requested in writing by the student for the following reasons:

- a. After completing one week in the rotation, the student deems the rotation is not of high quality.
- b. The student is requesting a change in a clinical rotation assignment for a specific month under a preceptor not affiliated with the PA Program.
- c. The student is being used to substitute for regular clinical or administrative staff.

Completed paperwork requesting an upcoming rotation change must be submitted to the Clinical Education Coordinators 60 days before the rotation is scheduled to begin. The student will be notified of the approval/non-approval of the request within 24 hours.

### **Reassignment of Clinical Rotation Education**

Any student who receives one or more "C's" on a preceptor assigned grade for the clinical rotation or receives a "C" grade in any Senior Seminar Course, may have the remainder of their clinical rotations reassigned by the Clinical Education Coordinators to more closely monitor clinical development and academic performance.

### **Rotational Clinical Education Observation**

Any student who has been "deemed unsafe" may be placed in an observational mode for the remainder of his/her rotation. A student may be placed in observation mode for one month only, then summary suspension may occur. Summary suspension may be implemented instead of observation mode.

### **Personal Appearance**

Personal appearance is extremely important in facilitating acceptance by other health professionals and patients. The poor appearance of one individual is often generalized to the entire profession. Adherence to the following dress code is, therefore, the responsibility of each student while in clinical training.

- a. Physician Assistant Program name tags/badges are to be worn at all times while on campus, and at clinical rotation education sites.
- b. Short white "intern" type jackets are required at all times, beginning with Phase II of the curriculum.
- c. Female students may wear slacks or other appropriate dress. Modesty must be a consideration for necklines and hemlines.
- d. Shirt and tie are considered appropriate dress for male students when they are present in a setting where patient contact can be expected. Students must receive the approval of the supervising practitioner to wear "scrubs" during the rotation. The white coat must be worn over scrubs except while in the surgical suite.
- e. "Blue jeans" are NOT appropriate dress for either male or female students during the clinical phases.
- f. "Tennis Shoes", "Joggers", and other forms of athletic shoes are NOT considered appropriate attire.
- g. Students should consider the image projected to the patient and others with regard to hairstyle and length, beards, mustaches and jewelry.

### **Professional Conduct During Clinical Education**

Professional and personal conduct includes, but is not limited to attendance, cooperation with preceptors, interest shown in assigned work, attitude toward fellow students, associates and personnel of hospitals and approach to and interaction with patients.

- Students will introduce themselves as physician assistant students.
- Students will wear their Western University identifying nametags when in a clinical setting at all times.

- Students will be able to explain what a PA is concisely and confidently to patient(s) and staff.
- Students who introduce themselves as a physician are subject to dismissal from the program.
- Students will not engage in any activity that may be construed as being unethical, immoral or inconsistent with the practice of medicine.

Students breaching the Professional Conduct Policy will go through the following process:

The student will be required to have a student conference with the Department Chair and/or Clinical Education Coordinators. The breach of conduct will be investigated and the student will be notified of the results of the investigation. A verbal warning may be issued and/or a letter of unprofessional conduct may be placed in the student's file. A student may be placed in observational mode by the Department Chair during the investigation, or may request that the student be summarily suspended during the investigation.

### **Academic Warning (Probation)**

The student who demonstrates unacceptable performance in any unit of study during any phase of the program is notified of such performance by the Instructor of the course or Program Chair as soon as it becomes evident. He/she is notified that continued poor academic performance can lead to academic probation and dismissal.

Students whose performance is considered unacceptable as a result of not meeting the Standards of Academic Progress will be placed on probation. The duration and conditions of the probationary period will be recommended to the Dean of the College of Allied Health Professions on an individual basis by the Allied Health Student Academic Progress Committee. The Committee may recommend remedial study and/or repetition of a unit of study. This may result in extending the length of the program beyond 24 months. See, also, section on Probation, in the *General Academic Policies and Procedures* section for the University.

### **Attendance/Absences**

Attendance is expected for all lectures, classes, and academic-related activities. The individual faculty members will make their own policy about attendance in their syllabus. It is required that students observe the following policy:

#### a. Absences

1. All unanticipated absences due to illness, accident, or other unexpected events must be reported to the program within 24 hours.
2. Absences requested for physician/dentist appointments for student or dependents will be considered only if requested in advance of the appointment. Due to the intense nature of the curriculum, students are strongly encouraged to schedule appointments for evening and Saturday hours to avoid class conflicts.
3. All anticipated absences for any reason, regardless of length, must have the prior approval by the faculty.

All requests for anticipated absences must be submitted in writing at least two weeks prior to the proposed absence. Requests will be considered on an individual basis and written notification of approval or disapproval will be provided to the student within one week of receipt of request.

4. Students in clinical education/preceptorship are responsible for notifying both their supervising physician(s), and the Physician Assistant program, regarding all absences whether anticipated or unanticipated. Prolonged absences require notification each day to preceptors and the program. All time missed on a rotation due to an anticipated or unanticipated absence must be made up.
5. When an absence is the result of a sudden unavoidable circumstance, the program should be notified as soon as possible and provided with an explanation for the absence.
6. Clinical rotation education/preceptorship absences and tardies will be made up at the convenience of the preceptor or the program.
7. Five or more absences from a clinical rotation education can result in any of the following:
  - (a) repeat the entire rotation
  - (b) make up days assigned at the convenience of the preceptor
  - (c) grade of Incomplete assigned

### **Confidentiality of Medical Record and Health History Information**

All data gathered about the patient and his/her illness, including all items within a patient's medical history is privileged information.

- a. Students should not discuss a patient's records in a manner or a situation that would reveal any information about that patient or his/her records to persons not involved in his/her health care.

- b. Charts or contents, e.g., lab reports, etc., are not to be removed from the hospital or clinical setting.

#### **Patient Records - Physician Review and Countersignature**

On each clinical rotation education, it is the student's responsibility to insure that ALL patients seen by the student are also seen by the supervising practitioner. The supervising practitioner should also review all student notes written in medical records and countersign these documents. Countersignatures should be obtained before the patient is released on outpatient and in patient rotations.

Under no circumstances should a student initiate orders for any patient on any clinical educational rotation without immediate physician consultation and countersignature. In addition, under no circumstances should a student sign medical drug orders.

Under no circumstances should a student accept samples from pharmaceutical representatives on behalf of the preceptor or himself.

These guidelines must be strictly adhered to for the student's protection and the protection of the patients seen by students. Violations of these policies are viewed as transgressions in professional and/or academic standards.

Falsifying a patient's exam findings or record is considered a breach of professional conduct.

#### **Title Identification/Representation**

Role and title confusion are common problems encountered in dealing with patients, e.g., some patients identify all those wearing short white coats as physicians. Students should be aware of this problem and avoid misrepresentation by politely explaining their role and position.

- a. In professional interactions with patients and others, a student should introduce himself or herself as a "physician assistant student" using the title of Mr. or Miss, Mrs., or Ms.
- b. Students should use the designation, "P.A.-Student" (PA-S), following all notations in charts, records, and other medical forms.

#### **Dismissal Recommendations**

A student may be subject to dismissal from the program for substandard academic or professional performance, as follows:

- a. Students who earn two or more unacceptable grades ("U's" or "NCR's") throughout the 24-month program may be dismissed from the program.
- b. Attaining a semester GPA of 2.75 or less for two or more semesters.
- c. Lack of professional attributes considered appropriate for continuance in the program and profession.
- d. Any event that could result in either academic or professional probation for a student currently on academic or professional probation.
- e. Violation of the terms of probation.
- f. Presenting him/herself as a physician.

#### **Student Behavior During Examinations**

- a. Students are not to communicate in any way during the examination and are to face the front of the classroom at all times.
- b. During scheduled examination hours, students are highly discouraged from going to the bathroom, but will be allowed to go one at a time. The student will be required to turn in the exam and scantron sheet as he/she goes to the bathroom.
- c. Once a student finishes an exam, the student will turn in the exam and the scantron form to the proctor, and after he/she leaves the examination room, he/she will not be permitted to re-enter the room until the exam is declared over.
- d. All students' belongings, i.e., notebooks, calculators, and headsets, etc., will be kept in front of the room.
- e. Questions will be answered at the discretion of the proctor during the examination period. Students should be permitted to point out typographical or other errors present in the examination to the proctor.
- f. Alternate seating shall be utilized for all examinations unless precluded by space availability.
- g. Students are not to communicate in any way during the examination.
- h. Students are not to look at any other student's examination paper, and are to face the front of the classroom at all times. All pagers, cellular phones, etc. are to be turned to vibrate mode
- i. Violations of these examination policies and of Standards of Academic and Social Conduct will be brought before the Student Conduct Committee.

- j. The course instructor sets the date of assignments, midterms, and final examination. All tests and assignments are to be taken as indicated in the course syllabus. Examination dates can only be changed by the instructor after reviewed and approved by the department chair.

#### **Evaluation and Grading**

- a. General: The degree of competency expected of all program graduates upon completion of the professional curriculum is defined by the "Functions and Tasks of Physician Assistant Graduates". The curricular components of the program are designed so that students' work toward achievement of these competencies is measured via written and practical examinations and by evaluations of clinical performance and professional development. Specific behavioral objectives have been defined for each curricular component to assist the student and the program faculty in evaluating the degree of attainment of these expected competencies throughout the 24-month curriculum.
- b. Evaluation Methods: Overall student performance is evaluated differently during each phase using one or a combination of the following methods:
1. Written examinations: Written examinations will vary based on the content of the individual course. A combination of single answer multiple choice, matching, True/False, short answer, essay and patient management type questions are used.
  2. Practical or Laboratory Examinations: In selected courses, students will be observed obtaining histories or performing physical exam components on simulated patients. They may also be asked to "problem solve" based on a patient database. At times, they will be evaluated on their ability to perform laboratory tests.
  3. Student Presentations: Students may be asked to orally present individual or group projects, patient cases, research papers, etc. These oral presentations may or may not be accompanied by a written report.
  4. Written reports: At various times, students will be evaluated on written reports of assigned topics, written histories, physicals, discharge summaries, research papers, etc.
  5. Professional Development Assessments: Assessments of each student's academic, professional and interpersonal growth and development are shared with them on an individual basis periodically during each phase of training.
  6. Clinical Evaluations: Supervising preceptors are asked to assess the student's level of attainment of competencies related to selected parameters within the domains of knowledge, skills and attitudes, and to evaluate the student's overall performance while on clerkship. Evaluation forms, which incorporate these areas to be evaluated, are utilized.

Students are responsible for securing these evaluations from the supervising preceptor(s) on each rotation and ensuring that they are completed and returned to the program office in a timely fashion. Preceptors are encouraged to discuss the student's performance and progress throughout the rotation with him/her and to discuss the final evaluation prior to completion of the rotation.

Since the clinical evaluation is an essential part of the overall assessment of the student's performance on a given rotation, course grades will not be computed without it. Students who fail to obtain clinical evaluations prior to the end of the respective clinical rotation will be given a grade of incomplete "I" for that clinical course. Courses with incomplete grades must be completed prior to advancing to preceptorship (Phase III).

Clinical evaluation forms become a part of the student's academic profile record. Students are urged to sign each evaluation and are encouraged to sign at the time the evaluation is discussed with the supervising preceptor. Students are provided copies of all their clinical evaluations when these are submitted by the preceptor to the program.

7. Patient Write-ups: Students on clinical rotations are required to submit a minimum of one patient write-up each month in the S.O.A.P. format. The chosen case must represent conditions listed in the objectives for each module. The write-ups are due in the PA Program Office on or before the last day of the clinical rotation.
8. Literature Review: Students can be requested to review current literature and complete a critique. The critique will be evaluated on content, validity, clarity and clinical relevance.
9. Final Comprehensive Examination: A comprehensive examination is administered during the Senior Seminar III and serves as a summative examination. This examination evaluates the student's accumulated knowledge and skills while familiarizing him/her with the format of the certification

examination. Like the NCCPA certification examination, this examination consists of a written multiple choice exam including questions on clinical skills competency.

10. Grade Reports: Official grades are turned in to the Registrar from the Dean of Allied Health Professions, at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available on the BanWeb student records systems throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at <http://www.westernu.edu/registrar>.

Due to the nature of the clinical curriculum, i.e., variable duration and sequencing of clinical education courses, course completion dates rarely coincide with traditional grading periods.

In these cases when final grades are not available at grade reporting time beyond the control of the student and/or program, a grade of "M" is submitted to the Registrar in lieu of the course clinical education grade. "M" grades are entered on the grade reports and are converted to student achieved grades at the earliest possible opportunity.

An up-to-date summary of student performance is maintained in the Program Office Files and is available to each student for his/her review.

11. Review of Examinations: Examinations are graded no later than on working week after examination administration, and one examination is kept on file for student review for ten working days after the grade has been computed.

12. Grading Scale: Final course grades are given based upon the traditional 4-point letter system, as follows:

Grade	Points
A      90% - 100%	4
B      80% - 89%	3
C      70% - 79%	2
U      Less than 69%	0
CR/NCR	0
I      Incomplete	0
M      Missing	0
W      Withdrawal	0

13. Clinical Rotation Education Grading Criteria: The Clinical Education grade is based on the student's singular performance as assessed by the preceptor, the student's participation and rotation exam.

### **Appealing a Course Grade**

No course grade will be changed unless the instructor or department chair certifies in writing to the Registrar that an error in computing or recording the grade occurred. If the student believes there is just cause to dispute a grade for a course, the procedure is as follows:

Within five (5) days of receipt of the course grade, make an appointment to talk to the course instructor(s) who issued the grade. Upon written request from the student, the course instructor(s) shall review the case with the student and a decision shall be made by the course instructor to affirm or modify the grade. Within ten (10) working days of the student's written request, the course instructor shall notify the student in writing of the decision. A copy of the letter shall be sent to the student and the Department Chair of the PA program.

Within five (5) working days following written notification to the student regarding the instructor's decision, the student may appeal the decision in writing to the PA Department Chairperson. The appeal request must be accompanied by a narrative explaining the basis of the appeal. The narrative should fully explain the student's situation and substantiate the reason(s) for advocating a reversal of the instructor's prior decision. The PA Department Chairperson may grant an appeal only if a claim of (1) bias, (2) the appearance of new material and documentable evidence that was not available at the time of the instructor's decision, or (3) procedural error that unfairly affected the decision-making process is substantiated by the PA Department Chairperson. Upon written request from the student with a valid appeal rationale, the PA Program Chairperson shall review the case and within seven (7) working days shall issue a decision in writing to the student, which may affirm, modify, or reverse the previous action. A copy of that decision will be provided to the instructor. The Chairperson's decision is final in all course grade appeals (didactic and clinical), except when the Chairperson is also the official instructor of the course in question. In such a case, the student will direct his or her appeal to the Dean

of the College of Allied Health Professions, following the same guidelines for an appeal to the Chairperson. Also in such a case, the decision of the Dean is final.

The student may remain in class or on clinical rotations pending the outcome of appeals, except in cases of summary suspension or when the Provost/COO or the Dean of the College of Allied Health Professions has suspended the student or has otherwise determined that it is inappropriate for the student to remain in class or participate in clinical rotations.

### **Appealing a Clinical Education Grade**

Any student who has a dispute with a grade that was assigned by their clinical preceptor, will utilize the following appeal process:

Contact the Clinical Education Coordinators, and notify them in writing of their concerns in reference to their clinical performance grade.

The Clinical Education Coordinators will contact the preceptor to schedule a meeting to discuss the student's grade. The grade may or may not be re-assigned contingent upon the information that is gathered by the Clinical Education Coordinators. The Clinical Education Coordinator will provide the student with a written decision of the outcome of this review within fourteen (14) working days of the student request. The decision of the Clinical Education Coordinators may be appealed following the procedure for Grade Appeals as described above.

### **Communications: Lockers, e-mail, mail**

**Lockers:** To improve the communication network and to foster student-staff and student-student interchanges, lockers are located in the Health Sciences Center Student Commons. Students are expected to follow the guidelines below in checking their lockers and will be held accountable for absences at activities announced via the locker system. In the event that time constraints necessitate quick dispersal of information, the program will disseminate this information via e-mail or through telephone communication.

- a. Each student will be assigned one locker.
- b. During any portion of the program for which the student is present in the Physician Assistant Program on a daily basis, i.e., lecture series, he/she should check his locker and e-mail daily.
- c. During Phase I of the program, each student should check his/her locker daily and electronic mail once each morning and evening.
- d. During Phase II & III of the program, correspondence from the program will be mailed to the student either traditional mail or electronic mail.
- e. During any portion of the program for which the student is out of town, e.g., remote clinical site, holidays, correspondence from the program will be mailed or electronically mailed to the student.

**Telephone:**

- a. During the course of the program, it is frequently necessary for members of the program staff to contact students regarding scheduling and re-scheduling of classes, meetings, and other program events, etc. Each class is responsible for developing a telephone communication network to include names and home phone numbers for each member of the class. This "chaining" is utilized to communicate last minute changes, announcements, etc. Each student is responsible for advising the program departmental secretary of telephone number changes as soon as they occur.
- b. Use of the program telephones is allowed only in emergency situations or with special permission from the program faculty or staff; students are not to make or receive personal calls on the office telephones.
- c. Pagers and cell phones must be in silent/vibrate mode during all class times and examinations.

**E-mail:**

All students will be assigned an e-mail account by the Office of Student Affairs. The PA program heavily relies on e-mail as a form of communication to students. It is essential for students to check their e-mail accounts daily.

### **Issues/Dispute Resolution Procedure**

When an issue or dispute arises between students, the issue/dispute resolution process starts with communication among the involved students. If a satisfactory resolution is not arrived at that level, the matter should then be addressed with the course instructor or the faculty advisor. If the problem is not resolved at the faculty advisor/course instructor level, the matter should be brought to the Department Chair, followed by the

Dean and then the Provost/COO. If the matter has not been resolved at those levels, the final arbiter is the President.

When an incident arises involving a faculty member, the first step in the issue/dispute resolution process is discussion with the faculty member. If the matter is not satisfactorily resolved at that level, then the matter should be referred to the Department Chair, Dean, and Provost/COO, in that order. The final arbiter is the President.

When an incident arises involving a staff member, the dispute resolution process begins with the Department Chair, followed by the Dean. The Office of Human Relations is the final arbiter.

Failure to follow this sequence of steps will only serve to delay the appropriate resolution of the issue or dispute as the matter will only be referred back to the correct level in this chain of responsibility.

### **Returning from Leave of Absence While in Phase II or Phase III**

A student returning from a leave of absence of 3 months or more is required to complete one ½ day review session (arranged by the clinical education department). The review session must be completed successfully before continuing with clinical education.

Student must:

- a. Demonstrate proficiency performing

- 1. Complete Physical Exam
- 2. POP with a SOAP Note

- b. Review the following topics:

- Universal Precautions
- Sterile Techniques

A second session may be scheduled if deficiencies are noted by the faculty.

### **Children in the Classroom/Labs**

The PA classroom is an environment for enhanced learning and should be free from unnecessary distraction. For this reason, children are not permitted in the classroom during examinations, no exceptions.

During the Pediatrics Course children will be invited to class to participate in the pediatric workshop.

### **Additional PA Program Education Requirements:**

All students are required to have a computer with internet access. Course assignments will be given that necessitate access to a computer and the Internet.

All students are required to participate as practice partners in physical examinations and clinical skills activities. This role necessitates the modest exposure of certain body parts such as the head, face, neck, torso, and extremities. At no time will breasts or genitalia be exposed or examined. Students are expected to practice exams on other students. Similarly, students are expected to be mock patients receiving physical examinations. The course instructor will randomly assign practice partners. Female/male pairing as practice partners is expected, and such pairings can only be changed in special circumstances as deemed appropriate by the PA Program Chair.

To meet State regulations and hospital accreditation requirements, health care facilities are requiring students to complete criminal background checks and urine drug screenings prior to beginning rotations/clinical experiences. Because of these regulations, designed to assure patient safety, students admitted to the PA program will be required to complete a criminal background check prior to clinical rotations. Certain convictions may prevent students from entering hospital facilities, which may hinder a student's ability to complete the PA Program successfully. If a criminal conviction or other relevant sanction is shown on the background check, hospital facilities have discretion as to whether the individual may enter the clinical facility as a student.

Certain convictions may also prevent students from obtaining licensure as a PA in the State of California or other states. Applicants and current students are advised to check with the appropriate State licensing board to determine whether their backgrounds may be a barrier to future licensing. Procedures for obtaining a background investigation and the costs to the student are available from the PA Clinical Education staff.

### **Student Academic Progress Committee**

- a. The Student Academic Progress Committee is comprised of department chairs and faculty members of the College of Allied Health Professions.

- b.** Each year, the Student Academic Progress Committee shall periodically review the academic achievements and the performance of all students. The names and grades of students in academic difficulty shall be made available to the Student Academic Progress Committee by the department chairs and faculty members. Upon request by the Dean, College of Allied Health Professions, the Student Academic Progress Committee will investigate and make recommendations to the Dean regarding allegations of student misconduct.
- c.** After reviewing the student's achievement and performance records, the Student Academic Progress Committee may recommend to the Dean of the College of Allied Health Professions any of the following courses of action for a student: promotion, probation, remediation, dismissal from the College, psychological and educational assessment and recommendation, or no action.
- d.** The Student Academic Progress Committee also has the responsibility of recommending to the faculty, as a whole, the awarding of the Master of Science degree upon satisfactory completion of all requirements for graduation as stated in the University Catalogue.
- e.** All recommendations of the Student Academic Progress Committee shall be in writing to the Dean of the College of Allied Health Professions, who will make the information available to the student.

## CURRICULUM ORGANIZATION

PREPARATORY PHASE (Optional preparatory course that is not part of the PA curriculum. A separate fee is assessed).

DO 5001         Summer Preparatory Program (0 credits, CR/NCR)

### PHASE I

First Semester

Year I Students

Course #	Title	Sem. Hours
PA5005	Medical Terminology	1 (CR/NCR)
PA5010	Structure & Function I	4
PA5020	Clinical Skills I	2
PA5030	Physical Assessment I	3
PA5040	Health Promotion/Disease Prevention I	3
PA5050	Introduction to Adult Medicine I	4
PA5060	Pharmacology and Therapeutics I	3
PA5070	Psychosocial Dynamics	3
PA5100	Pediatrics I	2
PA5170	Pathophysiology I	2
IPE 5000	Patient Centered Cases	1
Total		28

Second Semester

Year I Students

Course #	Title	Sem. Hours
PA5011	Structure & Function II	4
PA5021	Clinical Skills II	3
PA5031	Physical Assessment II	3
PA5041	Health Promotion & Disease Prevention II	2
PA5051	Introduction to Adult Medicine II	4
PA5061	Pharmacology and Therapeutics II	3
PA5101	Pediatrics II	2
PA5171	Pathophysiology II	2
HSCI5206	Research Methods II	3
IPE 5100	Patient Centered Cases	1
Total		27

Third Semester

Year I Students

Course #	Title	Sem. Hours
PA5110	OB/GYN	3
PA5120	Geriatrics	3
PA5130	Emergency Medicine	3
PA5140	Professional Roles & Responsibilities	2
PA5160	Health Care Delivery System	2
PA5180	Transitional Skills Seminar	1 (CR/NCR)
Total		14

## PHASE II

Fourth Semester

Year II Students

Course #	Title	Sem. Hours
PA6020	Senior Seminar I	3
###	Clinical Rotations I (4)	12
PA6970	Applied Clinical Project I	1
Total		16

Fifth Semester

Year II Students

Course #	Title	Sem. Hours
PA6030	Senior Seminar II	3
###	Clinical Rotations (4)	12
PA6980	Applied Clinical Project II	1
Total		16

## PHASE III

Sixth Semester

Year II Students

Course #	Title	Sem. Hours
PA6040	Senior Seminar III	2
PA####	Clinical Rotations (3)	9
PA6990	Applied Clinical Project III	6
Total		17

## COURSE DESCRIPTIONS

### **DO 5001 Summer Medical Sciences Preparatory Program (0 credit hours, CR/NCR, Optional)**

The Summer Preparatory Program prepares incoming students for the anatomy course and provides an introduction to biochemistry. The anatomy component focuses on the skeletal, muscular, cardiovascular and nervous systems, yet provides a brief overview of other body systems. It is designed for the student without prior coursework in anatomy. Acceptance into this program is at the discretion of the instructor/coordinator. The course is an elective and does not meet any requirements for graduation. A separate tuition of \$500 is charged.

### **PA 5005 Medical Terminology (1 credit hour, CR/NCR)**

This course is designed to provide a framework for building a comprehensive medical vocabulary. The basic techniques of medical word building will be used to enhance appropriate use and spelling of medical terms in oral and written presentations.

### **PA 5010 Structure and Function I (4 credit hours)**

An integration of sciences: anatomy, physiology, and biochemistry as they contribute to the understanding of clinical medicine. This course is correlated to the Introduction to Adult Medicine course.

### **PA 5011 Structure and Function II (4 credit hours)**

Continuation of PA 5010.

**PA 5020 Clinical Medical Skills I (2 credit hours)**

This practical course exposes the physician assistant student to basic clinical skills used in the primary care office. Skills include, but are not limited to, venipuncture, universal precautions, suturing, casting and sterile procedures.

**PA 5021 Clinical Skills II (3 credit hours)**

Continuation of PA 5020.

**PA 5030 Physical Assessment I (3 credit hours)**

This course is designed to provide students with fundamental cognitive knowledge of interviewing, formulating write-ups and physical assessment techniques. Students also learn how to analyze data and the formulation of a therapeutic plan based on the health history, and physical examination. This course is correlated with the Introduction to Adult Medicine.

**PA 5031 Physical Assessment II (3 credit hours)**

Continuation of PA 5030.

**PA 5040 Health Promotion and Disease Prevention I (3 credit hours)**

This course stresses the principles of wellness including detailed discussions of nutrition, exercise, alcohol and tobacco as they relate to culturally diverse patient populations.

**PA 5041 Health Promotion and Disease Prevention II (2 credit hours)**

Continuation of PA 5040.

**PA 5050 Introduction to Adult Medicine I (4 credit hours)**

This course represents an introduction to clinical adult medical and surgical disorders as well as pathophysiology from a primary health care perspective. This course is correlated with structure and function, pharmacology, and physical assessment. It also incorporates signs, symptoms, differential diagnosis, laboratory diagnosis and treatment modalities for selected disciplines.

**PA 5051 Introduction of Adult Medicine II (4 credit hours)**

Continuation of PA 5050.

**PA 5060 Pharmacology and Therapeutics I (3 credit hours)**

This course stresses the principles of drug action and is correlated with the system orientation of the "Introduction to Adult Medicine." Current aspects of drug therapy are studied with particular emphasis on the activity.

**PA 5061 Pharmacology and Therapeutics II (3 credit hours)**

Continuation of PA 5060.

**PA 5070 Psychosocial Dynamics (3 credit hours)**

This course provides students with the necessary skills to diagnose and treat common mental health disorders seen in an ambulatory family practice population. It also provides the students with information that enable them to factor "humanity" into their assessment, diagnosis and intervention strategies. The course also includes modules on family structure and functioning, the dynamics of aging, death and dying, and human sexuality.

**PA 5100 Pediatrics I (2 credit hours)**

This course will provide the primary care physician assistant student with an introduction to the basic principles of pediatrics. This pediatric course will provide the students with the basic cognitive skills required to obtain and perform an appropriate newborn, pediatric and adolescent history and physical.

**PA 5101 Pediatrics II (2 credit hours)**

Continuation of PA 5100.

**PA 5110 Obstetrics/Gynecology (3 credit hours)**

This course is designed to introduce the PA student to the fundamental principles and practice of obstetrics and gynecology and the unique physical and emotional health care needs of female patients. Emphasis will be placed on the pathophysiology, etiology, management and prevention of clinical problems that transpire in a woman's life cycle from infancy through menopause. Students will also learn the essential details of the OB-GYN clinical evaluation and strategies in the diagnosis and treatment of common OB-GYN medical, surgical, and obstetric disorders of women.

**PA 5120 Geriatrics (3 credit hours)**

This course introduces the students to all aspects of geriatrics. The course provides a framework for common geriatric illness, diseases, diagnoses and treatment. It discusses normal and pathologic changes of aging. It explores health care financing for the elderly. Common ethical and legal issues in caring for the elderly are discussed.

**PA 5130 Emergency Medicine (3 credit hours)**

This course emphasizes assessment skills in emergency medicine. It would provide students with an overview of emergency medicine, history and physical examinations. The course will introduce current diagnosis and treatment for commonly encountered medical emergencies. The student should be able to develop a working knowledge and framework for the evaluation and treatment of common medical and surgical procedures.

**PA 5140 Professional Roles and Responsibilities (2 credit hours)**

This course examines the different professional roles that can be assumed by a physician assistant. Also included are discussions of the laws in which PA's are required to follow to practice medicine and the health care delivery system.

**PA 5160 Health Care Delivery Systems (2 credit hours)**

This course will introduce the student to the current models of health care delivery systems utilized within healthcare. It will also identify the roles of a PA within the current health care delivery systems.

**PA 5170 Pathophysiology I (2 credit hours)**

This course is designed to enhance student knowledge in recognizing and identifying pathophysiology states for specific disease processes. This course is correlated with the Introduction to Adult Medicine course.

**PA 5171 Pathophysiology II (2 credit hours)**

Continuation of PA 5170.

**PA 5180 Transitional Skills Seminar (1 credit hour, CR/NCR)**

This course assists the PA students' transition from the classroom to a clinical environment. Students will refine the skills necessary to complete clinical education rotations successfully.

**HSCI 5206 Research Methods II (3 credit hours)**

The purpose of this course is to introduce students to a variety of research methodologies. Included will be historical studies, case studies, observational studies, the survey, quasi-experimental designs, and experimental designs. Generalizability issues and validity/reliability issues related to research are presented. HPE 5106 or its equivalent is a prerequisite for this course.

**PA 6020 Senior Seminar I (3 credit hours)**

Senior Seminar consists of a series of examinations and discussions. Clinical skill problems, case presentations, and problem oriented physical examinations are used as teaching tools to help the physician assistant student understand his/her role as a practicing PA.

**PA 6030 Senior Seminar II (3 credit hours)**

Senior Seminar II consists of a series of examinations and discussions. The purpose of the course is to further develop the physician assistant student's clinical skills and test-taking abilities.

**PA 6040 Senior Seminar III (2 credit hours)**

Senior Seminar III consists of a comprehensive examination and a problem oriented physical. The purpose of the course is to further develop the physician assistant students' clinical skills and prepare for the National Certification examination.

**PA 6970 Applied Clinical Project I (1 Credit Hour, CR/NCR)**

Preparation of a clinical project, under the supervision of a member of the PA faculty, that will be completed and presented in PA 6990.

**PA 6980 Applied Clinical Project II (1 Credit Hour, CR/NCR)**

Continuation of PA 6970.

**PA 6990 Applied Clinical Project III (6 credit hours, CR/NCR)**

In this course, the student presents the Clinical Project in partial fulfillment of requirements for the degree of Master of Science in Physician Assistant Studies.

**PA 7010 Family Practice /Common Psychiatry (3 credit hours)**

A clinical rotation that provides students with experience in a primary health care setting and will focus on medical and behavioral/psychiatric problems most commonly encountered by a family practitioner and certified physician assistant. Repeatable to a maximum of 15 credit hours.

**PA 7030 Internal Medicine (3 credit hours)**

A clinical rotation that provides students with the opportunity to diagnose, manage, and treat patients in an in/out patient setting. The student will participate in the direct care of patients including initial interview, physical examination, hospital rounds, clinical conferences and management decision sessions. Repeatable to a maximum of 12 credit hours.

**PA 7040 Emergency Medicine (3 credit hours)**

Students obtain experience in the management of acute medical and surgical care with an emphasis on the development of skills required to treat life-threatening illness and injury. Repeatable to a maximum of 12 credit hours.

**PA 7060 Pediatrics (3 credit hours)**

Students gain knowledge in the care of infants and children, including an understanding of normal development, and the recognition and management of common childhood illness, immunization updates and patient education opportunities. Repeatable to a maximum of 6 credit hours.

**PA 7070 Obstetrics and Gynecology (3 credit hours)**

Students learn about women's health issues: preventive care, prenatal care and post natal care, current contraceptive technology, and medical therapeutics which aid in the well being of the female patient. Repeatable to a maximum of 6 credit hours.

**PA 7080 General Surgery I (3 credit hours)**

Students are involved in the direct care of patients undergoing surgery including both pre-surgical evaluation and post-surgical maintenance. Students may select either in-patient or out-patient surgical settings. Repeatable to a maximum of 6 credit hours.

**PA 7130 Geriatrics (3 credit hours)**

Students develop the ability to recognize, diagnose, and treat the most commonly encountered health conditions of a geriatric population. The students will be able to assess and treat chronic medical conditions in various stages of progression.

**PA 7500 Extended Core Selectives (3 credit hours)**

Students can pursue additional experience in a variety of clinical specialties and sub-specialties or they can extend their knowledge by repeating one of the required clinical rotations up to the maximum limits permitted per lettered course. PA 7500 Extended Core Selectives that do not indicate that the course is repeatable can only be repeated with special approval of the Clinical Education Coordinator.

PA 7500A	Orthopedics (Repeatable to a maximum of 9 credit hours)
PA 7500B	Oncology
PA 7500D	Infectious Disease
PA 7500E	Cardiology (Repeatable to a maximum of 9 credit hours)
PA 7500F	Cardiothoracic Surgery
PA 7500G	Urgent Care (Repeatable to a maximum of 6 credit hours)
PA 7500J	Rheumatology
PA 7500K	Endocrinology
PA 7500L	Dermatology (Repeatable to a maximum of 6 credit hours)
PA 7500M	Occupational Medicine
PA 7500N	Trauma Surgery
PA 7500P	Psychiatry (Repeatable to a maximum of 6 credit hours)
PA 7500Q	Otolaryngology
PA 7500R	Community Medicine (Repeatable to a maximum of 6 credit hours)
PA 7500S	Neurology
PA 7500T	Critical Care
PA 7500Z	Other

**IPE 5000 Patient Centered Cases I – An Interprofessional Approach (1 credit hour)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

**IPE 5100 Patient Centered Cases II– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 5000.

**HONORS AND AWARDS**

The following are presented at the Graduation Awards Ceremony:

- The President's Society Award
- Joseph and Dorothy Gendron Journalism Award
- Linda Fox Memorial Endowment Fund Award
- Arthur Madorsky, MD Memorial Scholarship Award
- Class Morale Award
- Class Award
- Western University Physician Assistant Service Award
- The Clymer Award for Academic and Professional Excellence
- Dean's Award
- The National Dean's List Nominations
- Who's Who Among Students in American Universities and Colleges Nominations
- Alumni Memorial Award
- The Bertha Oliver Memorial Award
- Andrea J. Reina Memorial Award
- Martha Medina Memorial Award
- Blake Award of Academic Excellence

## **ACADEMIC CALENDAR**

2010-2011

PA PROGRAM

Wednesday, Aug. 4, 2010  
Orientation/Registration

Saturday, Aug. 7, 2010  
Convocation/White Coat Ceremony

Monday, August 9, 2010  
Classes begin (1st year)

Wednesday, September 1, 2010  
Rotations begin (2nd year)

Monday, September 6, 2010  
Labor Day - No 1<sup>st</sup> year Class

Monday, October 11, 2010  
Columbus Day - No Class

Wednesday, Nov. 24, 2010  
Thanksgiving recess – 5 pm

Monday, Nov. 29, 2010  
Classes Resume

Friday, December 10, 2010  
Last Day of Lectures for Fall Semester

Dec. 13-17, 2010  
Finals Week

Friday, December 17, 2010  
End of Fall Semester – 1<sup>st</sup> years

Monday, December 20, 2010  
Winter Recess Begins

Friday, December 31, 2010  
End of Fall Semester – 2<sup>nd</sup> years

### **2011**

Saturday, January 1, 2011  
Spring Semester begins – 2<sup>nd</sup> years

Monday, January 3, 2011  
Classes Resume – 1<sup>st</sup> years

Monday, January 17, 2011  
Martin Luther King Day - No Classes

Monday, February 21, 2011  
President's Day - No Classes

Monday, March 21, 2011  
Spring Break Begins – 1<sup>st</sup> years

Monday, March 28, 2011  
Classes Resume – 1<sup>st</sup> years

Saturday, April 30, 2011  
Spring Semester ends – 2<sup>nd</sup> years

Sunday, May 1, 2011  
Summer semester begins – 2<sup>nd</sup> years

Friday, May 13, 2011  
Last Day of Lectures for Spring Semester

May 16-20, 2011  
Spring Semester Finals

Thursday, May 19, 2011  
Commencement

Friday, May 20, 2011  
Spring Semester ends – 1<sup>st</sup> years

Monday, May 30, 2011  
Memorial Day – No Classes

Tuesday, May 31, 2011  
First Day of the Summer Session -1<sup>st</sup> years

Monday, July 4, 2011  
Independence Day observed– No Classes

Mon., Jul. 25-Fri., Jul. 29, 2011  
Summer Semester Finals – 1<sup>st</sup> years

Friday, July 29, 2011  
Last Day of Summer Semester- 1st years

Sunday, July 31, 2011  
Summer Semester Ends – 2nd years

### **THE PHYSICIAN ASSISTANT OATH**

I pledge to perform the following duties with honesty, integrity, and dedication, remembering always that my primary responsibility is to the health, safety, welfare, and dignity of all human beings:

I recognize and promote the value of diversity and I will treat equally all persons who seek my care.

I will uphold the tenets of patient autonomy, beneficence, non-maleficence, justice, and the principle of informed consent.

I will hold in confidence the information shared with me in the course of practicing medicine, except where I am authorized to impart such knowledge.

I will be diligent in understanding both my personal capabilities and my limitations, striving always to improve my practice of medicine.

I will actively seek to expand my intellectual knowledge and skills, keeping abreast of advances in medical art and science.

I will work with other members of the health care team to assure compassionate and effective care of patients.

I will uphold and enhance community values and use the knowledge and experience acquired as a PA to contribute to an improved community.

I will respect my professional relationship with the physician and act always with guidance and supervision provided by that physician, except where to do so would cause harm.

I recognize my duty to perpetuate knowledge within the profession.

These duties are pledged with sincerity and on my honor.

# **College of Dental Medicine**

## **Doctor of Dental Medicine Program**

### **ACCREDITATION**

The College of Dental Medicine's Doctor of Dental Medicine (DMD) program was granted "Initial Accreditation" by the Commission on Dental Accreditation of the American Dental Association at its January 29, 2009 meeting.

The Commission on Dental Accreditation authorized the use of the following statement for Western University of Health Sciences to announce its dental program's accreditation status:

"The dental education program is accredited by the Commission on Dental Accreditation [*and has been granted the accreditation status of initial accreditation*]. The Commission is a specialized accrediting body recognized by the United States Department of Education. The Commission on Dental Accreditation can be contacted at (312) 440-4653 or at 211 East Chicago Avenue, Chicago, IL 60611-2678."

### **COLLEGE VISION**

Western University College of Dental Medicine will be a premier center for integrative educational innovation, basic and translational research, and high quality, patient-centered, interprofessional health care; all conducted in a setting that utilizes advanced technology and promotes individual dignity and potential for personal and professional growth.

### **COLLEGE MISSION**

The Western U College of Dental Medicine will realize this vision by educating and training highly competent, diverse groups of clinical practitioners who have the ability to provide complex, integrative, high-quality, evidence-based care for patients, families and communities. Western U College of Dental Medicine will produce graduates who will be ethical, caring life-long learners; who will collectively engage in clinical oral health care, public health practice, biomedical and health services research, education and administration; and who will fulfill their professional obligation to improve the oral health of all members of society, especially those most in need. They will embrace scientific and technological advances and understand the connections between oral health and general health. They will be partners in the interprofessional health care delivery systems of the future, as well as leaders of their own oral health care teams, as they enhance and extend the quality of life in their communities.

### **COLLEGE VALUES/GOALS**

- Education/Teaching
- Patient Care
- Research
- Service

### **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

Candidates for the Doctor of Dental Medicine program must have the intellectual, emotional and physical abilities, with or without accommodations, to acquire the knowledge, technical and clinical skills needed to successfully complete the curriculum in order to pursue a career in dentistry. Reasonable accommodations for persons with disabilities will be considered on an individual basis, but a candidate must be able to perform in an independent manner.

The practice of dentistry requires the performance of specific functions that fall into five broad skills categories: observation, communication, motor, interpretive/conceptual/quantitative, and behaviors/social.

#### **Observation Skills**

Basic Sciences: A candidate must be able to acquire a defined level of required information as presented through demonstrations and experiences in the basic and dental sciences. This includes, but is not limited to, information conveyed through physiologic and pharmacological demonstrations in animals and microscopic images of microorganisms and human or animal tissues in normal and pathologic states. A candidate must be able to acquire information from written documents and to visualize information presented as paper, films, slides, video and computer images. A candidate must be able to interpret radiographs (x-rays) and other graphic images, with or

without the use of assistive devices. A candidate must have functional use of visual, auditory, and somatic sensation while using appropriate enhancement of sensory modalities (such as microscopes, stethoscopes, etc.).

**Clinical Sciences:** A candidate must be able to observe a patient accurately, at a distance and close at hand, and observe and appreciate non-verbal communications when performing general dentistry treatment or administering medications.

A candidate must be able to perform visual and tactile dental examinations and treatment including use of visual acuity, with or without accommodations, to discern slight differences and variations in color, shape, and general appearance between normal and abnormal soft and hard tissues. Use of tactile senses may be either direct palpation or indirect through instrumentation. A candidate must also possess the visual acuity to read charts, records, small print and handwritten notation, and distinguish small variations in colors both intra- and extra-orally.

#### **Communication Skills**

A candidate must be able to communicate clearly and effectively with a degree of sensitivity with patients, parents and/or guardians; establish good rapport, convey or exchange information at a level allowing development of a health history; identify problems presented; explain alternative solutions; and give directions during treatment and post-treatment. For effective patient treatment, the candidate must be able to communicate with patients, parents, guardians, and all members of the dental and medical health care team effectively and efficiently. Communication must be culturally appropriate. Communication includes oral and written modes. This requires the ability to understand, write and speak fluent English. The candidate must also be able to recognize nonverbal communication cues.

#### **Motor Skills**

A candidate should have a sufficient level of manual dexterity such that he/she is able to execute the fine movements required to provide general dental care and treatment to patients within a specified amount of time. It is required that a candidate possess the manual motor skills necessary to directly perform diagnostic and treatment maneuvers associated with the practice of general dentistry. Such maneuvers require coordination of both gross and fine muscular movements, equilibrium, and functional uses of the senses of touch, hearing and vision. A candidate must be able to perform basic life support, transfer and position disabled patients, and position and reposition self around patients in various treatment settings. The candidate must be able to operate dental equipment controls utilizing fine hand movements, position and move dental instruments and move in all directions within one millimeter of tolerance. Candidates must be able to work in the proper ergonomic positions appropriate to the delivery of dental treatment for extended periods of time.

#### **Interpretive/Conceptual/Quantitative Skills**

A candidate must be able to measure, calculate, reason, analyze, integrate and synthesize information. A candidate must be able to comprehend and mentally visualize three-dimensional relationship and to understand the spatial relationships of structures. Problem solving and clinical decision making and critical thinking skills demanded of a general dentist require all of these intellectual abilities. A candidate must be able to perform these problem-solving and critical thinking skills in a timely fashion for effective patient treatment.

#### **Behaviors and Social Skills**

A candidate must possess the emotional health and maturity required for full utilization of his or her intellectual abilities, the exercise of good judgment, maintenance of patient confidentiality, the prompt completion of all responsibilities attendant to the diagnosis and care of patients and the development of mature, sensitive, and effective relationships with patients, faculty, staff and fellow students. A candidate must recognize that the curriculum is physically, mentally and emotionally demanding. She/he must be able to tolerate physically and emotionally demanding workloads, function effectively under stress, adapt to changing environments, display flexibility and learn to function in the face of uncertainties inherent in the clinical problems of patients.

The Doctor of Dental Medicine (DMD) program, along with all programs at Western University of Health Sciences, shares a commitment to develop creative ways of opening the DMD curriculum to competitive, qualified individuals with disabilities. In doing so, however, the DMD degree program must maintain the integrity of its curriculum and preserve those elements deemed essential to educating candidates to become effective dentists.

### **ADMISSIONS POLICIES AND PROCEDURES**

Candidates for admission to the College of Dental Medicine must demonstrate that they are prepared to function as highly competent, caring students and future health care professionals. The College of Dental Medicine seeks a diverse and balanced student population and considers factors such as grade point average (GPA), a well-rounded background, dentistry related work experiences, community service, interpersonal skills, letters of recommendation, Dental Admission Test (DAT) scores and a commitment to compassionate health care.

## **Requirements for Admission**

1. A minimum of 90 semester hours or 135 quarter hours at an accredited college or university. Candidates who have received or will receive a baccalaureate degree or who have completed units in excess of the minimum required will be given preference. Exceptions may be made on a case-by-case basis.
2. Computer literacy in the operation and management of a laptop computer.
3. All applicants are required to complete the DAT
4. Applicants must complete the following prerequisite courses:
  - General Biology with lab - 8 semester units or 12 quarter units
  - General or Inorganic Chemistry with lab - 8 semester units or 12 quarter units
  - Organic Chemistry with lab - 8 semester units or 12 quarter units
  - General Physics with lab – 8 semester units or 12 quarter units
  - College English/English Composition- 6 semester units or 9 quarter units

## **Courses that are Highly Recommended**

- Biochemistry
- Human Anatomy
- Human Physiology
- Genetics
- Cellular Biology
- Microbiology
- Calculus I
- Psychology
- Conversational Spanish

## **Notes Regarding Prerequisites**

- Prerequisite courses must be successfully completed with a grade of “C” or better at an accredited college or university. **A grade of “C-“ in any prerequisite course is not acceptable.**
- Prerequisite courses must be transferable. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses.
- Prerequisites may not be satisfied by CLEP or credit for experiential learning.
- Introductory level courses in the sciences are not accepted.
- All prerequisite coursework in progress at the time of application must be completed no later than the spring semester or quarter prior to registration date in August. **Summer session courses taken immediately prior to matriculation at Western University are not accepted.**
- WesternU does not waive any of the prerequisite courses.
- English as a Second Language (ESL) courses are not accepted for the English requirement.
- Only English may be taken on an advanced-placement basis.

## **Standardized Examinations**

### **Dental Admissions Test (DAT)**

All applicants are required to take the DAT. Please visit the [American Dental Association](#) website for more testing information.

- DAT scores are valid for 3 years
- DAT must be taken by October 15 of the year you are applying
- Canadian DAT's are not accepted
- DAT scores must be received before the application will be considered

### **Test of English as a Foreign Language (TOEFL)**

The TOEFL, including essay, is required for all applicants submitting coursework from foreign schools, and all permanent and temporary residents of the United States. **Exception:** The TOEFL exam will be waived for students who have graduated with a confirmed baccalaureate or higher degree from a United States institution at the time of application. A minimum score of 213 for the Computer Based test or 79 for the Internet Based TOEFL test must be submitted at the time of application. TOEFL scores are valid for two (2) years. TOEFL scores will not be waived for pending baccalaureate degrees or pending naturalization appointments. For more information regarding the TOEFL test, please visit their website at [www.toefl.org](http://www.toefl.org)

### **Applicants with Foreign Coursework**

Applicants who wish to use coursework completed outside the United States must submit their transcripts for evaluation to a [Western University Approved Service](#) at the candidate's expense. A course-by-course evaluation is required and all coursework must be designated as undergraduate, graduate or professional. Western University only honors evaluations from one of the above services. The official evaluation must be included with the supplemental application packet.

### **International Students**

International students and any other applicants who are not U.S. citizens and who are living in the U.S. should be prepared to provide proof of legal U.S. residency at the time of interview. Proof of legal U.S. residency is required prior to any offer of acceptance. For more detailed information, please visit our web page for International Students.

### **Experience**

All applicants must have documented a minimum of 30 hours of dental experience, either paid or volunteer. Demonstrated community service through volunteerism or service-oriented employment is encouraged.

### **REGISTRATION**

Students are required to register by the registration date specified by the Registrar. Prior to registration, the matriculate must supply all required documentation.

### **FIRST YEAR ORIENTATION**

Attendance at orientation is mandatory for all first-year students.

### **TUITION AND FEES**

By action of the Western University of Health Sciences Board of Trustees, the Doctor of Dental Medicine program tuition and fees for the 2010-2011 academic year (tuition and fees are subject to change) are as follows below, and found on the Western University web site.

Applicants accepted for admission at Western University of the Health Sciences must pay an initial non-refundable acceptance deposit of \$1,000 and a second non-refundable deposit of \$1,000 to hold a place in class. Due dates for these two nonrefundable deposits are provided in the offer of acceptance letter.

#### **2010-2011 Tuition and Fees:**

- \$ 51,850 Tuition (Charter Class)
- \$55,710 Tuition (Entering Class of 2010)
- \$ 40 Student Body Fee
- \$200 Graduation Fee (assessed on candidates for graduation only)
- \$400 (annual) Western University Parking Permit Fee (Optional)
- \$ 1,000 Electronic Textbook
- \$ 4,190 Instrument Fee
- \$ 1,000 Surgical Magnification System
- \$ 1,100 Student Health Insurance
- \$ 500 Miscellaneous

A laptop computer is required, specification will be provided prior to matriculation.

The College of Dental Medicine also requires that each student dentists have a classroom responder, approved by the College, which is to be purchased from the University Bookstore. Individual responders must be registered to

only one (1) student. Classroom responders are electronic devices that will be used to enhance interactive learning in classrooms. The device will enable faculty to gauge student understanding of concepts, introduce more innovative teaching and assessment methods, improve student involvement in learning, and facilitate classroom learning to become more dynamic. The responders will also be used to administer and score assessments. Therefore, student dentists are also required to bring responders to each class.

## ACADEMIC POLICIES AND PROCEDURES

### Grading Policies and Credit Hours

To be eligible for graduation, a student must complete the following required components of the Doctor of Dental Medicine Program.

Program Year	Terms	Weeks of Instruction	Approximate Credit Hours
First (D 1)	Fall/Spring	42	71
Second (D 2)	Summer/Fall/Spring	44	99
Third (D 3)	Summer/Fall/Spring	47	64
Fourth (D 4)	Summer/Fall/Spring	47	61
<b>Total</b>		<b>180</b>	<b>295</b>

Dental students must maintain a cumulative grade point average (GPA) of at least 2.0 on a yearly basis to be considered making satisfactory academic and professional progress. Official grades are turned in to the Registrar by the Dean of the College of Dental Medicine (CDM), at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available on the BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at: [www.westernu.edu/registrar](http://www.westernu.edu/registrar)

Course grades will be assigned as follows:

A = 90- 100 %

B = 80- 89 %

C = 70- 79%

F = below 70%

I = Incomplete

W = Withdrawal

M = Missing

Incomplete Grade (I): An Incomplete (I) indicates that a student has not been able to finish all required work for issuance of a letter grade. An "I" is not counted in the grade point calculations until a letter grade is issued to replace the "I." An "I" must be replaced before the student registers for the next academic term, unless other arrangements are made with the instructor and the Dean of the College of Dental Medicine.

Replacement of an "I" will be under the direction of the instructor with the approval of the Dean or his/her designee. If the required work is not completed within the specified time, the "I" will be converted to an "F". It is to the student's advantage to arrange to make up any incomplete work as soon as possible. The incomplete (I) remains on the transcript and is followed by the grade earned (i.e., I/B).

#### Evaluation of Dental Student Academic Performance

The College of Dental Medicine's Student Performance Committee (SPC) is charged: To develop policies for the evaluation of dental student performance, including policies for grading, promotion and graduation of students. It shall also be responsible for implementing and enforcing policies and shall make recommendations to the Dean of the College regarding promotion or graduation of each student. The SPC shall follow guidelines in full accord with the rules of the Western University of Health Sciences and the requirements of due process. The SPC will convene to review student clinical progress throughout the four-year curriculum, meeting to review student progress following each term. During the D3 and D4 year, students are reviewed to determine their readiness to enter the Community-Based Education Program, based on the demonstration of adequate progress towards clinical competence.

## **Promotion**

Promotion is defined as academic and professional progression from one academic year to the next. The Student Performance Committee will recommend students to the Dean of the College for promotion. The SPC may not recommend a student for progression from one academic year to the next with a grade of "I" or "F" in a required course, final grade point average (GPA) below a 2.0 or a yearly cumulative GPA below a 2.0. An essential element of the academic program is professionalism. Professionalism will be emphasized throughout the curriculum and is a stand-alone element in determining academic advancement and achievement.

When considering a student for promotion, ethical, professional, and personal conduct will also be taken into consideration (see Probation in University Academic Policies section). A student will be promoted provided that all academic, legal and financial requirements of the University, as stated in the University Catalog, have been satisfied. All coursework in the College of Dental Medicine must be completed within six (6) years of beginning the DMD program. Exceptions may be made only upon the recommendation of the Student Performance Committee in consultation with the Dean.

## **Academic Integrity**

Complete confidence in the honor and integrity of the health professions student and health care professional is essential. Such confidence depends entirely on the exemplary behavior of the individual health care provider in his/her relations with patients, faculty and colleagues. Strict honesty as a personal way of life should be nurtured during the period of education for professional service. The student shall conduct all aspects of his/her life with honor and integrity. This includes accountability to oneself and to relationships with fellow students, future colleagues, faculty, and patients who come under the student's care or contribute to his/her training and growth, and members of the general public. This applies to personal conduct that reflects on the student's honesty and integrity in both academic and non-academic settings, whether or not involving a University sponsored activity. Upon accepting admission to the University, each student subscribes to and pledges complete observance to the Standards of Academic and Professional Conduct as outlined in the University Catalog for each academic program. A violation of these standards is an abuse of the trust placed in every student and could lead to suspension or dismissal.

## **Graduation**

A student will be recommended for the degree Doctor of Dental Medicine provided he/she:

1. Is not on academic suspension or probation and has completed all prescribed academic requirements with a cumulative grade point average of at least 2.0 and has no outstanding grade of "I" or "F."
2. Has successfully taken and passed the National Board Dental Examinations, Part I and Part II.
3. Has demonstrated appropriate ethical, professional, and personal conduct, as defined in the University Catalog, "General Academic Policies and Procedures" section, thus making it appropriate to award the degree of Doctor of Dental Medicine.
4. Has complied with all the legal and financial requirements of the University as stated in the University Catalog.
5. Is expected to complete all requirements for graduation by the subsequent date of August 31 and is expected to march with his/her class in the graduation ceremony. Diplomas will be dated as appropriate to the completion date of all DMD academic requirements.
6. Unless special permission has been granted by the President of the University, all students must participate in person in the commencement program at which the degree is conferred. If the President grants special permission to be excused from graduation, the graduate may be required to present himself/herself at a later date to the Dean of the College of Dental Medicine to receive the diploma and take the required professional oath.

## **Probation or Academic Suspension**

Students may be placed on Probation or Academic Suspension for the following reasons (these are in addition to the reasons listed in the WesternU General Academic Requirements section on Probation in the Overview Section of this Catalog):

1. Inadequate academic progress as determined by the Student Performance Committee. This includes, but is not limited to, receiving an "F" in any course or system.
2. A grade point average below 2.0.
3. When directed to repeat a year for academic reasons.
4. Failure to perform in a professional manner.
5. Serious deficiencies in ethical or personal conduct.

Students on Academic Suspension are not registered as an active matriculant and should use this time to remediate for the deficiency for which the Academic Suspension was levied.

On campus students on probation must meet with their faculty advisor at least once a month. Off campus students on probation must contact their faculty advisor once a month. It is the student's responsibility to contact the faculty advisor to arrange these meetings.

A first or second year student on probation for receiving a grade of "F" or for a GPA less than 2.0 in the first semester will be removed from probation after one semester provided he/she has regained a cumulative GPA of at least 2.0 and has remediated the failed course.

A first or second year student will be removed from probation when all grades of "F" have been remediated satisfactorily according to the following Remediation section.

A third or fourth year student on probation because of a grade of "F" must remediate the course or clinical rotation. The student will then be reviewed by the Student Performance Committee at the end of the academic year and may be recommended for continuation on, or removal from, probation.

Students on probation are to remove themselves from all leadership roles in co-curricular activities associated with the University and/or with professional associations.

### **Appeal of a Grade/Penalty**

(e.g., Grade, a Final Grade, and Exclusion from a course, lab or clinic):

The first level of the appeal is at the academic department level from which the grade or penalty was issued. Within five (5) working days after receipt of the grade or penalty, the student must request a review by the College's course director. In the event of an inability to satisfactorily resolve the matter at this level, the student must submit his/her appeal in writing to the chair of the department within ten (10) days after the grade or penalty was received.

Should the department chair be unable to resolve the dispute the student may direct a written appeal to the College of Dental Medicine's Academic Dean within thirty (30) days after receipt of the penalty. The decision of the Academic Dean is final.

### **Remediation**

The educational objectives that underlie remedial teaching and evaluation should be the same as the educational objectives that underlie regular courses in the curriculum.

Dental students, who receive an "F" in a course or system or a cumulative GPA below a 2.0, will be reviewed by the Student Performance Committee.

Where deemed appropriate, the Student Performance Committee, after consultation with the course instructor, system coordinator, and/or the Dean (or his/her designee) may recommend any one of the following options:

1. Take a comprehensive examination.
2. Complete special projects or studies in the deficient area(s).
3. Repeat the course, system, or rotation.
4. Repeat the academic year.
5. Withdraw from the University (see Dismissal section for criteria for this option).

The score/grade achieved by remediation will be the score/grade recorded except that the highest score/grade a student may earn by options 1 or 2 (above) is a score of 70% or a "C". The grade achieved by remediation will be re-recorded on the transcript along with the original grade.

Numerical scores or grades earned during an attempted remediation of a course, system, or clinical rotation will be reviewed critically by the Student Performance Committee and the Dean of the College of Dental Medicine. Failure to earn at least a 70% or a "C" may result in dismissal from the College or repeating the academic year.

Decisions regarding remediation will be made on an individual basis after considering all pertinent circumstances. The decision will be made by the Dean of the College of Dental Medicine, based upon the recommendation of the Student Performance Committee. The Committee will base its recommendation on the student's academic record and other considerations after consultation with the student's faculty advisor, course instructor, system coordinator, Dean (or his/her designee) clinical preceptor, and the student involved, as is appropriate.

A student who is required to remediate a course must be notified in writing by the Dean at least 15 working days prior to the remediation date, or within 15 working days after the close of the academic year in which the student is presently enrolled, whichever comes first.

Notification must either be sent by Certified Mail or hand-delivered to the student and must be acknowledged with the signatures of the Dean (or his/her designee) and the student.

### **Remediation: Financial Aid Policy**

If the student, at the end of the academic year, is still considered to be making unsatisfactory progress and must remediate, he/she is removed from the list of eligible Title IV and Title VII financial aid recipients.

Remediation of courses during the summer is not covered by any financial aid and cannot be considered an expense item for the following year. Students will attend at their own expense. Appropriate tuition and fees will be determined by the Treasurer/Chief Financial Officer in consultation with the Provost/COO and the Dean of the College of Dental Medicine.

### **Dismissal**

The University may require withdrawal at any time it deems necessary to safeguard its standards of scholarship, conduct, and orderly operation. Examples of reasons the Student Performance Committee will recommend dismissal of a student include, but are not limited to the following:

1. Receiving a cumulative grade point average below 2.0 at the end of the first or second year.
2. Receiving a final grade of "F" in two or more courses or systems totaling more than 25% of the total credit hours for the first or second year\*.
3. Receiving a grade of "F" in two or more clinical rotations in one academic year.
4. Receiving a final percentage score of below 70% (a letter grade of "F") in a remediated course, system, or clinical rotation.

\*The Committee may recommend dismissal for a student receiving a final grade of "F" in three or more courses or systems, even if the total unsatisfactory credit hours do not exceed 25% of the total credit hours for the first or second years.

### **Student Appeal Process**

At the conclusion of each academic term, the Student Performance Committee will review whether students have met the established criteria for progression in the dental curriculum. Recommendations by the Student Performance Committee for repeat of an academic year or dismissal from the dental program are advisory to the Dean of the College of Dental Medicine, who will make the decision.

In the event that the Student Performance Committee has made a preliminary determination to recommend an adverse action, such as dismissal or the repeat of an academic year, the student is offered an opportunity to meet in person with the Student Performance Committee, prior to the Committee forwarding its final recommendation to the Dean of the College of Dental Medicine. At such time, the student may present any information relative to the preliminary recommendation. The student may also be accompanied by a representative for support; however, the representative may not be an attorney. The Student Performance Committee will have an opportunity to review the additional information, if presented, and will then make a final recommendation to the Dean.

In accordance with Western University policy, the Dean's decision may be appealed by the student to the Provost of Western University of Health Sciences. The Provost may convene an advisory panel, and the decision of the Provost is final. (See Student Appeal Process in University Academic Policies section).

### **Attendance and Absence Policy**

Attendance is required at all scheduled instructional period. Absence from instructional periods for any reason does not relieve the student from the responsibility for the material covered during the period of absence. Frequent absences will be viewed as violations of the Standards of Academic and Professional Conduct. Students are expected to participate fully in all classroom, laboratory, and clinic activities.

Monitoring of the attendance policy will be the responsibility of the CDM Office of Academic Affairs. For all scheduled and unscheduled quizzes, a time allotment for participation will be specified by the faculty member(s) administering the quiz. Students arriving late for a quiz are permitted to participate; however they will still be required to turn in the quiz at the end of the allotted time with the rest of the class. There will be no make-up quizzes.

Students are required to be present for all scheduled examinations and cannot begin a examination more than 15 minutes after the scheduled time. For a student to take any examination outside of the scheduled time, the student must have prior approval of the CDM Office of Academic Affairs. A student who cannot attend an exam due to unforeseen circumstances, including illness, should phone 909-706-3550 or e-mail the Associate Dean for Academic Affairs at [CDMOAA@westernu.edu](mailto:CDMOAA@westernu.edu) and the Course Director as soon as possible prior to or after the exam has been administered. A written explanation of the absence (including documentation on physician letterhead in the case of illness) must be provided to the Office of Academic Affairs and the Course Director the next day the student is on

campus. The requirement of a physician's note to document illness may be suspended by the University in response to any epidemic or pandemic situation when access to a physician may be limited.

If a student misses an examination, the CDM Office of Academic Affairs, in consultation with the Course Director, will determine whether the absence is excused or unexcused. If the absence is excused, the student will be permitted to take a make-up examination, the nature and time of which will be at the discretion of the Course Director. The student will receive full credit for the make-up examination.

If the absence is unexcused (e.g., failure to show up for a written or practice examination without a valid excuse as determined by the CDM Office of Academic Affairs and the Course Director), this is grounds for summary failure (a score of zero) for that examination.

In the case of an unexcused absence and subsequent summary failure, the student will be referred to the Course Director regarding required remediation. The maximum score that the student can achieve on the remediated examination will be 70%. If the student fails to take either a make-up or a remediation examination at the time designated by the Course Director (without a valid excuse as delineated above) this will be grounds for summary failure (a score of zero) of that examination and referral to the Student Performance Committee. In such a case, a written report will be sent by the Course Director to the CDM Office of Academic Affairs, with a copy sent to the chair of the Student Performance Committee and Dean of the College of Dental Medicine for appropriate disposition.

### **Commission on Dental Accreditation Policy on Complaints**

The Commission on Dental Accreditation will review complaints that relate to a program's compliance with the accreditation standards. The Commission is interested in the sustained quality and continued improvement of dental and dental-related education programs but does not intervene on behalf of individuals or act as a court of appeal for treatment received by patients or individuals in matters of admission, appointment, promotion or dismissal of faculty, staff or students.

A copy of the appropriate accreditation standards and/or the Commission's policy and procedure for submission of complaints may be obtained by contacting the Commission on Dental Accreditation at 211 East Chicago Avenue, Suite 1900, Chicago, IL 60611-2678 or by calling 1-800-621-8099 extension 4653 or at [Commission on Dental Accreditation](#).

## **CDM COMPETENCIES FOR THE GENERAL DENTIST**

The general dentist is the primary oral health care provider. The practice of general dentistry requires that a dentist possess the ability to incorporate understanding, skill and values in an integrated response to clinical and other professional challenges. The following competency statements have been compiled to describe the performance of the Western University College of Dental Medicine graduates as they enter dental practice settings rather than of students in individual courses. This document is viewed by the College as a dynamic, as the practice of dentistry changes in the future.

### **Domains**

1. Critical Thinking
  2. Professionalism/Leadership Skills
  3. Communication and Interpersonal Skills
  4. Health Promotion
  5. Practice Management and Informatics
  6. Patient Care
    - a. Assessment, Diagnosis and Treatment Planning
    - b. Establishment and Maintenance of Oral Health
1. Critical Thinking  
Graduates must be competent to:
- 1.1. Evaluate and integrate emerging trends in health care, as appropriate.
  - 1.2. Utilize critical thinking and problem-solving skills.
  - 1.3. Evaluate and integrate best research outcomes with clinical expertise and patient values for evidence-based practice.
2. Professionalism/Leadership Skills

Graduates must be competent to:

- 2.1. Apply ethical and legal standards in the provision of dental care.
- 2.2. Practice within one's scope of competence and consult with or refer to professional colleagues when indicated.

3. Communication and Interpersonal Skills

Graduates must be competent to:

- 3.1. Apply appropriate interpersonal and communication skills.
- 3.2. Apply psychosocial and behavior principles in patient-centered health care.
- 3.3. Communicate effectively with individuals from diverse populations.

4. Health Promotion

Graduates must be competent to:

- 4.1. Provide prevention, intervention, and educational strategies.
- 4.2. Participate with dental team members and other health care professionals in the management and health promotion for all patients
- 4.3. Recognize and appreciate the need to contribute to the improvement of oral health beyond those served in traditional practice settings.

5. Practice Management and Informatics

Graduates must be competent to:

- 5.1. Evaluate and apply contemporary and emerging information including clinical and practice management technology resources.
- 5.2. Evaluate and manage current models of oral health care management and delivery.
- 5.3. Apply principles of risk management, including informed consent and appropriate record keeping, in patient care.
- 5.4. Demonstrate effective business, financial management, and human resource skills.
- 5.5. Apply quality assurance, assessment, and improvement concepts.
- 5.6. Comply with local, state and federal regulations including OSHA and HIPAA.
- 5.7. Develop a catastrophe preparedness plan for the dental practice.

6. Patient Care

A. Assessment, Diagnosis, and Treatment Planning

Graduates must be competent to:

- 6.1. Manage the oral health care of the infant, child, adolescent, and adult, as well as the unique needs of women, geriatric and special needs patients.
- 6.2. Prevent, identify and manage trauma, oral diseases and other disorders.
- 6.3. Obtain and interpret patient / medical data including a thorough intra-/extra oral examination and use these findings to accurately assess and manage patients.
- 6.4. Select, obtain, and interpret diagnostic images for the individual patient.
- 6.5. Recognize the manifestations of systemic disease and how the disease and its management may affect the delivery of dental care.
- 6.6. Formulate a comprehensive diagnosis, treatment and/or referral plan for the management of patients.

B. Establishment and Maintenance of Oral Health

Graduates must be competent to:

- 6.7. Utilize universal infection control guidelines for all clinical procedures.
- 6.8. Prevent, identify, and manage pain and anxiety in the dental patient
- 6.9. Prevent, identify, and manage temporomandibular disorders.
- 6.10. Prevent, identify and manage periodontal diseases.
- 6.11. Develop and implement strategies for the clinical assessment and management of caries.
- 6.12. Manage restorative procedures that preserve tooth structure, replace missing or defective tooth structure, maintain function, are esthetic, and promote soft and hard tissue health.
- 6.13. Diagnose and manage developmental or acquired occlusal abnormalities.
- 6.14. Manage the replacement of teeth for the partially or completely edentulous patient.
- 6.15. Diagnose, identify, and manage pulpal and periradicular diseases.
- 6.16. Diagnose and manage oral surgical procedures.

- 6.17. Prevent, recognize, and manage medical and dental emergencies.
- 6.18. Recognize and manage patient abuse and/or neglect.
- 6.19. Recognize and manage substance abuse.
- 6.20. Evaluate outcomes of comprehensive dental care.
- 6.21. Diagnose, identify and manage oral mucosal and osseous diseases.

### **Summer Preparatory Program**

The college offers an optional 5-week introductory preparatory program to a selected number of incoming DMD students. Additional information can be obtained from the LEAD Office.

## **DMD CURRICULUM**

### **First Year, Fall Term**

- DMD 5025 The Molecular and Cellular Basis of Medicine (10.0 credit hours)
- DMD 5030 Gross Anatomy (8.5 credit hours)
- DMD 5035 Head and Neck Anatomy (3.5 credit hours)
- DMD 5050 Essentials of Clinical Dentistry I (3.5 credit hours)
- DMD 5099 Service Learning I (1.0 credit hour)
- IPE 5000 Patient-Centered Cases – An Interprofessional Approach I (1.0 credit hour)

### **First Year, Spring Term**

- DMD 5110 Oral & Maxillofacial Pathology I (3.0 credit hours)
- DMD 5125 Neuroscience System (11.5 credit hours)
- DMD 5130 Musculoskeletal System (5.0 credit hours)
- DMD 5145 Introduction to Disease, Immunity and Therapeutics (7.0 credit hours)
- DMD 5150 Essentials of Clinical Dentistry II (10.0 credit hours)
- DMD 5175 Blood and Lymphatic System (4.0 credit hours)
- DMD 5199 Service Learning II (2.0 credit hours)
- IPE 5100 Patient-Centered Cases – An Interprofessional Approach II (1.0 credit hour)

### **Second Year, Summer Term**

- DMD 6005 Clinical Comprehensive Care Dentistry I (10 credit hours)
- DMD 6060 Clinical Service Learning & Community Dentistry I (2.0 credit hours)

### **Second Year, Fall Term**

- DMD 6010 Oral & Maxillofacial Pathology II (3.0 credit hours)
- DMD 6020 Cardiovascular System (8.5 credit hours)
- DMD 6035 Renal System (4.5 credit hours)
- DMD 6040 Respiratory System (8.5 credit hours)
- DMD 6045 Endocrine System (5.5 credit hours)
- DMD 6050 Essentials of Clinical Dentistry III (12.0 credit hours)
- DMD 6061 Clinical Service Learning & Community Dentistry II (3.0 credit hours)
- IPE 6000 Patient Centered Cases – an Interprofessional Approach III (1.0 credit hour)

### **Second Year, Spring Term**

- DMD 6115 Dermal System (3.0 credit hours)
- DMD 6130 Reproductive System (6.0 credit hours)
- DMD 6140 Gastrointestinal System and Nutrition (6.5 credit hours)
- DMD 6150 Essentials of Clinical Dentistry IV (12.0 credit hours)
- DMD 6160 Clinical Service Learning & Community Dentistry III (3.0 credit hours)
- DMD 6173 Geriatrics (1.5 credit hours)
- DMD 6176 Pediatrics (2.5 credit hours)
- IPE 6100 Patient Centered Cases – an Interprofessional Approach IV (1.0 credit hour)

### **Third Year, Summer Term**

- DMD 7005 Clinical Comprehensive Care Dentistry II (10.0 credit hours)

DMD 7050 Essentials of Clinical Dentistry V (6.0 credit hours)  
DMD 7060 Clinical Service Learning & Community Dentistry IV (2.0 credit hours)

### **Third Year, Fall Term**

DMD 7105 Clinical Comprehensive Care Dentistry III (12.0 credit hours)  
DMD 7110 Advanced Practice Management I (1.5 credit hours)  
DMD 7150 Essentials of Clinical Dentistry VI: Advanced Seminars (1.5 credit hours)  
DMD 7160 Clinical Service Learning & Community Dentistry V (1.0 credit hour)

### **Third Year, Spring Term**

DMD 7205 Clinical Comprehensive Care Dentistry IV (12.0 credit hours)  
DMD 7210 Advanced Practice Management II (1.5 credit hours)  
DMD 7226 Clinical Diagnostic, Oral Medicine and Pathology (2.0 credit hours)  
DMD 7227 Clinical Periodontics (2.0 credit hours)  
DMD 7228 Clinical Restorative Dentistry (including Operative, Fixed- and Removable- Prosthodontics) (2.0 credit hours)  
DMD 7229 Clinical Endodontics (2.0 credit hours)  
DMD 7230 Clinical Oral and Maxillofacial Surgery (including Pain Management and Sedation) (2.0 credit hours)  
DMD 7231 Clinical Pediatric Dentistry (2.0 credit hours)  
DMD 7232 Clinical Orthodontics (2.0 credit hours)  
DMD 7250 Essentials of Clinical Dentistry VII: Advanced Seminars (1.5 credit hours)  
DMD 7260 Clinical Service Learning & Community Dentistry VI (1.0 credit hour)

### **Fourth Year, Summer Term**

DMD 8005 Clinical Comprehensive Care Dentistry V (9 credit hours)  
DMD 8010 Advanced Practice Management III (1.5 credit hours)  
DMD 8050 Essentials of Clinical Dentistry VIII: Advanced Seminars (1.0 credit hour)  
DMD 8060 Clinical Service Learning & Community Dentistry VII (4.0 credit hours)

### **Fourth Year, Fall Term**

DMD 8105 Clinical Comprehensive Care Dentistry VI (9.0 credit hours)  
DMD 8110 Ethics and Jurisprudence (1.5 credit hours)  
DMD 8126 Clinical Diagnostic, Oral Medicine and Pathology (2.0 credit hours)  
DMD 8127 Clinical Periodontics (2.0 credit hours)  
DMD 8128 Clinical Restorative Dentistry (including Operative, Fixed- and Removable- Prosthodontics) (2.0 credit hours)  
DMD 8129 Clinical Endodontics (2.0 credit hours)  
DMD 8130 Clinical Oral and Maxillofacial Surgery (including Pain Management and Sedation) (2.0 credit hours)  
DMD 8131 Clinical Pediatric Dentistry (2.0 credit hours)  
DMD 8132 Clinical Orthodontics (2.0 credit hours)  
DMD 8150 Essentials of Clinical Dentistry IX: Advanced Seminars (1.0 credit hour)  
DMD 8160 Clinical Service Learning & Community Dentistry VIII (4.0 credit hours)

### **Fourth Year, Spring Term**

DMD 8250 Essentials of Clinical Dentistry X: Advanced Seminars (1.0 credit hour)  
DMD 8260 Clinical Service Learning & Community Dentistry IX (15.0 credit hours)

## **COURSE DESCRIPTIONS**

### **DMD 5025 The Molecular and Cellular Basis of Medicine** (10.0 Credit Hrs, graded)

This course presents an integration of molecular biology, biochemistry, cellular physiology and metabolism, introductory genetics and developmental histology within the context of their clinical application of basic biomedical sciences.

**DMD 5030 Gross Anatomy** (8.5 Credit Hrs, graded)

This course presents an understanding of the structure and arrangement of the gross anatomical features of the human body. Through lectures and laboratory dissection of cadavers, students are introduced to the language of anatomy and to clinically important relationships. Models, radiographs and special demonstrations are employed to emphasize areas useful to the physician.

**DMD 5035 Head and Neck Anatomy** (3.5 Credit Hrs, graded)

This course is a continuation of the gross anatomy course. Through lecture and laboratory, students are introduced to the anatomy of the head and neck. Particular attention is paid to the cranial nerves, both their normal function and the numerous clinical syndromes that affect them. The anatomy lectures will also be supplemented with various clinical presentations.

**DMD 5050 Essentials of Clinical Dentistry I** (3.5 Credit Hrs, graded)

Essentials of Clinical Dentistry I introduces students to the world of clinical dentistry through a multifaceted approach, including simulated patients, facilitated small group sessions, didactic sessions, self-directed and online exercises, and group projects. Emphasis is on preparation for early direct patient care activities as both an observer and in the role of a dental assistant, which will occur as part of Essentials of Clinical Dentistry II. Students will learn basic dental assisting skills including dental terminology and morphology, equipment and instrument utilization, four-handed dentistry, ergonomics, infection control, recordkeeping and patient confidentiality, and the role of the dental assistant in medical emergencies. Students are introduced to foundational clinical skills including patient communication and interviewing techniques, basic physical examination skills, diagnostic data gathering, preventive and restorative dentistry. Other components of the course include introduction to dental material science, oral pathology, oral radiology, clinical informatics and the electronic patient record, ethics and professionalism, and health promotion and disease prevention.

**DMD 5099 Service Learning I** (1.0 Credit Hr, graded)

Through interaction and service in the community, this course develops the role and responsibility of the dentist in society. Topics, including health education, public health, epidemiology and biostatistics, are learned through practical application.

**IPE 5000 Patient Centered Cases – An Interprofessional Approach I** (1.0 Credit Hr, graded)

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduation requirement for all health professional programs.

**DMD 5110 Oral & Maxillofacial Pathology I** (3.0 Credit Hrs, graded)

This course will build upon the foundational pathology concepts and information given in the MCBM and IDIT courses. It will also integrate, expand, and correlate with other biomedical science courses and the concomitant clinical sciences taught in Essential of Clinical Dentistry. Specifically, the course will describe the etiology, pathogenesis, clinical features, radiographic features (if applicable), treatment and prognosis of classical and traditional categories of oral and maxillofacial pathology. Lastly, the course will introduce and strengthen the art and science of differential diagnosis formulation, of soft and hard tissue lesions. The information, concepts, and differential skills developed during this course will prepare the student for arriving at a provisional diagnosis of their clinic patients and will allow them to fully participate in the third and fourth year oral pathology seminars.

**DMD 5125 Neuroscience System** (11.5 Credit Hrs, graded)

This course presents basic understandings of the brain, spinal cord, and peripheral nervous system. Basic science topics include embryology, histology, neuroanatomy, biochemistry, physiology and pharmacology. Clinical topics include infections of the nervous systems, pathology neurology, ophthalmology, otorhinolaryngology, and overviews of sleep disorders, cerebrovascular disorders, aging and dementia.

**DMD 5130 Musculoskeletal System** (5.0 Credit Hrs, graded)

This course presents common conditions and disorders of the musculoskeletal system. The course also presents embryology, histology, and functional anatomy – including kinesiology, biochemistry, pharmacology, physiology,

and microbiology. The pathology and clinical aspects of this system are discussed, as are the related aspects of sports medicine, rehabilitative medicine, exercise, rheumatoid diseases and orthopedics.

**DMD 5145 Introduction to Disease, Immunity and Therapeutics** (7.0 Credit Hrs, graded)

This is an integrated course introducing microbiology, immunology, pathology, and pharmacology to prepare students for more in-depth study during the systems. Genetics, as related to these disciplines, is also included. Clinical applications of the basic sciences are emphasized.

**DMD 5150 Essentials of Clinical Dentistry II** (10.0 Credit Hrs, graded)

Essentials of Clinical Dentistry II continues to build the foundation for students to become patient care providers clinical dentistry and is a continuation of "Essentials of Clinical Dentistry I" through a multifaceted approach, including simulated patients, facilitated small group sessions, didactic sessions, self-directed and online exercises, and group projects. Emphasis is on the foundational knowledge and skills of preventive dentistry, diagnostic data gathering, restorative dentistry, pain management and materials sciences. The course consists of weekly clinic related activities.

**DMD 5155 Behavioral Medicine and Psychiatry** (5.5 Credit Hrs, graded)

Presented in conjunction with neuroscience, this course presents biological, psychological and social aspects of behavior in relation to medical practice. Major topics include the etiology and treatment of substance abuse, the physician-patient relationship, emotion and personality, etiology of gender identity and sexual orientation, human sexuality, evolutionary origins of behavior, and the genetic and environmental aspects of behavioral disorders. The course addresses how a patient's behaviors contribute to their health and/or disease. The health provider's role in the education for behavioral change is also discussed. The psychiatry portion of the course builds upon the bio-psycho-social foundation presented during behavioral science. Major DSM-IV diagnoses will be explored. Implication for healthcare practice will be emphasized. The course develops the healthcare provider's ability to recognize and deal with, or to refer, specific psychiatric cases.

**DMD 5175 Blood and Lymphatic System** (4.0 Credit Hrs, graded)

This course presents the embryology, histology and biochemistry of the hemopoietic and lymphoreticular organs. During this system, the influences of microbiologic and pharmacologic agents are discussed. The pathological and clinical aspects of hematologic diseases and diseases of the lymphoreticular systems are presented along with the pertinent laboratory tests.

**DMD 5199 Service Learning II** (2.0 Credit Hrs, graded)

Prerequisite: DMD 5099. Continuation of DMD 5099.

**IPE 5100 Patient Centered Cases – An Interprofessional Approach II** (1.0 Credit Hr, graded)

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduation requirement for all health professional programs.

**DMD 6005 Clinical Comprehensive Care Dentistry I** (10 Credit Hrs, graded)

A four-week immersion experience in the summer that prepares the student for his/her role as a beginning clinical care provider when they enter the second year curriculum, integrating students with their Comprehensive Care Group Practice.

**DMD 6060 Clinical Service Learning & Community Dentistry I** (2.0 Credit Hrs, graded)

Continuation of DMD 5199.

**DMD 6010 Oral & Maxillofacial Pathology II** (3.0 Credit Hrs, graded)

This course will build upon the foundational pathology concepts and information given in the Oral Pathology I course. It will also integrate, expand, and correlate with other biomedical science courses and the concomitant clinical sciences taught in Essential of Clinical Dentistry. Specifically, the course will describe the etiology, pathogenesis, clinical features, radiographic features (if applicable), treatment and prognosis of classical and

traditional categories of oral and maxillofacial pathology. Lastly, the course will introduce and strengthen the art and science of differential diagnosis formulation, of soft and hard tissue lesions. The information, concepts, and differential skills developed during this course will prepare the student for arriving at a provisional diagnosis of their clinic patients and will allow them to fully participate in the third and fourth year oral pathology seminars.

**DMD 6020 Cardiovascular System** (8.5 Credit Hrs, graded)

This course presents the embryology, histology, and gross anatomy of the heart and blood vessels. The biochemistry, pharmacology, physiology, and microbiology as related to this system are also discussed. Cardiovascular pathologies are presented, along with the clinical diagnostic and treatment modalities.

**DMD 6035 Renal System** (4.5 Credit Hrs, graded)

This course presents basic science topics in embryology and histology of the kidneys and urinary system, the biochemistry, physiology, and pharmacology of fluid and electrolyte balance with emphasis on kidney function, microbiology, pharmacology. Clinical topics include management of urinary infections, and the identification, diagnosis, and treatment of renal and urinary disorders.

**DMD 6040 Respiratory System** (8.5 Credit Hrs, graded)

This course presents the embryology, histology, and gross anatomy of the lungs and nasotracheobronchial tree. Respiratory physiology and defense mechanisms, as well as microbiology, biochemistry, and pharmacology relating to the system are discussed. Pathology of the upper and lower respiratory system is presented along with clinical presentations of diagnostic and treatment modalities.

**DMD 6045 Endocrine System** (5.5 Credit Hrs, graded)

This course explores the anatomy of the hormone secreting glands, the biochemical description of a hormone, how hormones are studied and measured, and the physiology of homeostasis. Pathologies of the endocrine system and the pharmacology of endocrine drugs are presented. Clinical manifestations of endocrine disorders of various ages are presented, with emphasis on identification, diagnosis, and treatment. The course also considers the evaluation and management of endocrine emergencies.

**DMD 6050 Essentials of Clinical Dentistry III** (12.0 Credit Hrs, graded)

Essentials of Clinical Dentistry III continues to build the clinical foundational knowledge and skills of the student. In the D2 fall term, the student expands their role as a dental auxiliary and begins the transition into a dental care provider within their faculty/student group practices. D2 students' activities include patient assessment, diagnostic data gathering, basic preventive dentistry, periodontics, local anesthesia, simple operative procedures, and basic fixed and removable prosthodontics.

**DMD 6061 Clinical Service Learning & Community Dentistry II** (3.0 Credit Hrs, graded)

In this course, students will be assigned to participate in community service learning programs.

**IPE 6000 Patient-Centered Cases – An Interprofessional Approach III** (1.0 Credit Hr, graded)

Continuation of IPE 5100.

**DMD 6115 Dermal System** (3.0 Credit Hrs, graded)

This course presents problems of the skin from a clinical perspective. Lectures are coordinated with embryology, histology, physiology, biochemistry, pharmacology, microbiology pathology, and dermatopathology.

**DMD 6130 Reproductive System** (6.0 Credit Hrs, graded)

This course presents the anatomy, embryology, and histology of both the female and male reproductive systems. The physiology, biochemistry, pathology, pharmacology, and microbiology of both reproductive systems are also discussed. In addition, the basic science disciplines present principles regarding the relationships between mother and fetus during pregnancy. Clinical lectures on obstetrics, gynecology, perinatology, and nutrition. Additionally, issues related to child abuse, the management of pregnancy, and perspectives on human sexuality are also presented.

**DMD 6140 Gastrointestinal System and Nutrition (6.5 Credit Hrs, graded)**

This course presents various aspects of the gastrointestinal system, including its embryology and histology. The biochemistry, physiology, the influence of pharmacology, and the problems with microbiology are presented along with the clinical and pathological aspects of the system. The nutrition course is incorporated into this system.

**DMD 6150 Essentials of Clinical Dentistry IV (12.0 Credit Hrs, graded)**

This course is a continuation of “Essentials of Clinical Dentistry III.” Special emphasis is on clinical pediatric dentistry, orthodontics, special needs and geriatric dentistry.

**DMD 6160 Clinical Service Learning & Community Dentistry III (3.0 Credit Hrs, graded)**

In this course, students will be assigned to participate in community service learning programs.

**DMD 6173 Geriatrics (1.5 Credit Hrs, graded)**

This course is devoted to the special problems that can occur in the elderly. Diseases and conditions learned during the systems are now explored in light of this population. Challenges of an aging population and elder abuse issues are also explored.

**DMD 6176 Pediatrics (2.5 Credit Hrs, graded)**

This course is devoted to the special problems that can occur in the period between infancy to adolescence. Diseases and conditions learned during the systems are now explored in light of this population. Additionally, aspects specific to pediatric oral health are explored.

**IPE 6100 Patient-Centered Cases – An Interprofessional Approach IV (1.0 Credit Hr, graded)**

Continuation of IPE 6000.

**DMD 7005 Clinical Comprehensive Care Dentistry II (10.0 Credit Hrs, graded)**

A seven-week immersion experience in the summer where the student begins the transition into their role as a clinic provider when they enter their second year curriculum, integrating the students with their Comprehensive Care Group Practices. Students continue to expand their role as a clinical provider in their group practice. Special emphasis for the term is on surgical dentistry, including endodontics, oral and maxillofacial surgery, implant surgery, and periodontal surgery.

**DMD 7050 Essentials of Clinical Dentistry V (6.0 Credit Hrs, graded)**

This 9-week course is a continuation of “Essentials of Clinical Dentistry IV,” focusing on advanced seminars that provide foundational knowledge and skills to support the student’s transition as a provider in the Comprehensive Care Group Practices.

**DMD 7060 Clinical Service Learning & Community Dentistry IV (2.0 Credit Hrs, graded)**

Students continue to expand their role as a clinical provider by participating in community service learning programs.

**DMD 7105 Clinical Comprehensive Care Dentistry III (12.0 Credit Hrs, graded)**

Students provide Comprehensive Care for the patients of their Comprehensive Care Group Practices. During these two terms, students may also participate in specialty rotations, both on campus and at community-based clinics. Clinical experiences will be multidisciplinary, reflecting the general dentistry clinical care model.

**DMD 7110 Advanced Practice Management I (1.5 Credit Hrs, graded)**

This course builds upon the basic business, jurisprudence and ethical principles of the “Essentials of Clinical Dentistry” course series. Utilizing a multifaceted approach including seminars, case-based learning, group projects, one-on-one mentoring and clinical learning labs, students use their on-campus and community-based clinical experiences to apply practice management principles within their group practices. In addition, a broad spectrum of community experts provide timely seminars including accountants, attorneys, insurance administrators, practice consultants, healthcare policy experts, bankers, architects, administrators and practitioners from numerous clinical practice settings.

**DMD 7150 Essentials of Clinical Dentistry VI: Advanced Seminars** (1.5 Credit Hrs, graded)

This seminar series, taught through the student's group practices, broadly covers all disciplines of clinical dentistry. Seminars will be conducted both on campus, as well as via web-based conferencing sites while students are located at community-based sites. Clinical rounds including case presentations and discussions of assigned topics will be facilitated by faculty group leaders, community-based preceptor faculty, specialist faculty and dental students.

**DMD 7160 Clinical Service Learning & Community Dentistry V** (1.0 Credit Hr, graded)

Students continue to expand their role as a clinical provider by participating in community service learning programs.

**DMD 7205 Clinical Comprehensive Care Dentistry IV** (12.0 Credit Hrs, graded)

Students continue to provide Comprehensive Care for the patients of their Comprehensive Care Group Practices. During these two terms, students will also participate in specialty rotations, both on campus and at community-based clinics. Clinical experiences will be multidisciplinary, reflecting the general dentistry clinical care model.

**DMD 7210 Advanced Practice Management II** (1.5 Credit Hrs, graded)

Students continue to build upon the basic business, jurisprudence and ethical principles of the "Essentials of Clinical Dentistry" course series. Utilizing a multifaceted approach including seminars, case-based learning, group projects, one-on-one mentoring and clinical learning labs, students use their on-campus and community-based clinical experiences to apply practice management principles within their group practices. In addition, a broad spectrum of community experts provide timely seminars including accountants, attorneys, insurance administrators, practice consultants, healthcare policy experts, bankers, architects, administrators and practitioners from numerous clinical practice settings.

**DMD 7226 Clinical Diagnostic, Oral Medicine and Pathology** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of diagnosis, oral medicine and pathology.

**DMD 7227 Clinical Periodontics** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of Periodontics.

**DMD 7228 Clinical Restorative Dentistry (including Operative, Fixed- and Removable- Prosthodontics)** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of restorative dentistry.

**DMD 7229 Clinical Endodontics** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of endodontics.

**DMD 7230 Clinical Oral and Maxillofacial Surgery (including Pain Management and Sedation)** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of oral and maxillofacial surgery.

**DMD 7231 Clinical Pediatric Dentistry** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of pediatric dentistry.

**DMD 7232 Clinical Orthodontics** (2.0 Credit Hrs, graded)

Students continue to expand their role in clinical orthodontics.

**DMD 7250 Essentials of Clinical Dentistry VII: Advanced Seminars** (1.5 Credit Hrs, graded)

This seminar series continues, taught through the student's group practices, to broadly cover all disciplines of clinical dentistry. Seminars will be conducted both on campus, as well as via web-based conferencing sites while students are located at community-based sites. Clinical rounds including case presentations and discussions of assigned topics will be facilitated by faculty group leaders, community-based preceptor faculty, specialist faculty and dental students.

**DMD 7260 Clinical Service Learning & Community Dentistry VI** (1.0 Credit Hr, graded)

Students continue to expand their role as a clinical provider by participating in community service learning programs.

**DMD 8005 Clinical Comprehensive Care Dentistry V** (9.0 Credit Hrs, graded)

Students continue to provide Comprehensive Care for the patients of their Comprehensive Care Group Practices. During these two terms, students will also participate in limited specialty rotations, both on campus and at community-based clinics.

**DMD 8010 Advanced Practice Management III** (1.5 Credit Hrs, graded)

Students will prepare a portfolio project related to a practice management topic of their choice as approved by their group practice faculty mentor. Practice management topics may include a practice valuation, development of an associate employment agreement, development of a practice purchase agreement, analysis of an office lease, development of an employee manual, or a community needs assessment.

**DMD 8050 Essentials of Clinical Dentistry VIII: Advanced Seminars** (1.0 Credit Hr, graded)

This seminar series, taught through the student's group practices, broadly covers all disciplines of clinical dentistry. Seminars will be conducted both on campus, as well as via web-based conferencing sites while students are located at community-based sites. Clinical rounds including case presentations and discussions of assigned topics will be facilitated by faculty group leaders, community-based preceptor faculty, specialist faculty and dental students.

**DMD 8060 Clinical Service Learning and Community Dentistry VII** (4.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider by participating in community service learning programs.

**DMD 8105 Clinical Comprehensive Care Dentistry VI** (9.0 Credit Hrs, graded)

Students continue to provide Comprehensive Care for the patients of their Comprehensive Care Group Practices. During these two terms, students will also participate in limited specialty rotations, both on campus and at community-based clinics.

**DMD 8110 Ethics and Jurisprudence** (1.5 Credit Hrs, graded)

This course offered as primarily as a small group seminar, focuses on advanced topics in medical/dental ethics and jurisprudence. Case presentations and discussions of assigned topics will be facilitated by faculty group leaders, community-based preceptor faculty, specialist faculty and dental students. Topics will focus on professionalism and ethics related to the practice of dentistry in a variety of clinical settings. Students will learn the practical steps in obtaining a state dental license, utilizing the California State Dental Practice Act as a model.

**DMD 8126 Clinical Diagnostic, Oral Medicine and Pathology** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of diagnosis, oral medicine and pathology.

**DMD 8127 Clinical Periodontics** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of Periodontics.

**DMD 8128 Clinical Restorative Dentistry (including Operative, Fixed- and Removable- Prosthodontics)** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of restorative dentistry.

**DMD 8129 Clinical Endodontics** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of endodontics.

**DMD 8130 Clinical Oral and Maxillofacial Surgery (including Pain Management and Sedation)** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of oral and maxillofacial surgery.

**DMD 8131 Clinical Pediatric Dentistry** (2.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider in the area of pediatric dentistry.

**DMD 8132 Clinical Orthodontics** (2.0 Credit Hrs, graded)

Students continue to expand their role in clinical orthodontics.

**DMD 8150 Essentials of Clinical Dentistry IX: Advanced Seminars** (1.0 Credit Hr, graded)

This seminar series, taught through the student's group practices, broadly covers all disciplines of clinical dentistry. Seminars will be conducted both on campus, as well as via web-based conferencing sites while students are located at community-based sites. Clinical rounds including case presentations and discussions of assigned topics will be facilitated by faculty group leaders, community-based preceptor faculty, specialist faculty and dental students.

**DMD 8160 Clinical Service Learning and Community Dentistry VIII** (4.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider by participating in community service learning programs.

**DMD 8250 Essentials of Clinical Dentistry X: Advanced Seminars** (1.0 Credit Hr, graded)

This seminar series, taught through the student's group practices, broadly covers all disciplines of clinical dentistry. Seminars will be conducted both on campus, as well as via web-based conferencing sites while students are located at community-based sites. Clinical rounds including case presentations and discussions of assigned topics will be facilitated by faculty group leaders, community-based preceptor faculty, specialist faculty and dental students.

**DMD 8260 Clinical Service Learning and Community Dentistry IX** (15.0 Credit Hrs, graded)

Students continue to expand their role as a clinical provider by participating in community service learning programs.

**COLLEGE OF DENTAL MEDICINE**  
**ACADEMIC CALENDAR**  
2010-2011 Academic Year

August 2-6, 2010 Orientation Week	Monday, December 20, 2010 Winter Recess Begins
Saturday, August 7, 2010 Convocation/White Coat Ceremony	Monday, January 3, 2011 Spring Semester Begins
Monday, August 9, 2010 Classes Begin	Monday, January 17, 2011 Martin Luther King Day Holiday – no classes
Monday, September 6, 2010 Labor Day – no classes	Monday, February 21, 2011 Presidents' Day – no classes
Monday, October 11, 2010 Columbus Day – no classes	Monday, March 21, 2011 Spring Vacation Begins
Wednesday, November 24, 2010 (5 pm) Thanksgiving Recess	Monday, March 28, 2011 Classes resume
Monday November 29, 2010 Classes Resume	Monday, June 13, 2011 Last Day of Spring Semester Classes
Friday, December 17, 2010 Last Day of Fall Semester Classes	

# **COLLEGE OF GRADUATE NURSING**

## **Doctor of Nursing Practice Master of Science in Nursing Tracks:**

**Master of Science in Nursing/Family Nurse Practitioner  
Post-Master's Family Nurse Practitioner Certificate  
Master of Science in Nursing (Completion)  
Master of Science in Nursing/ Leadership & Management  
Master of Science in Nursing /Clinical Nurse Leader  
Master of Science in Nursing/Ambulatory Care Nursing  
Master of Science in Nursing-Entry (Bachelor's to RN/MSN)  
Master of Science in Nursing (ADN/RN to MSN)**

### **PURPOSE**

The College of Graduate Nursing (CGN) at Western University offers a variety of programs for students to achieve a Master of Science or Doctor of Nursing Practice degree through both campus-based programs and a hybrid web-based and seminar weekend delivery model, to meet the needs of working professionals and other adult learners. All CGN graduate programs are Board of Registered Nursing approved (BRN) and all master's programs are professionally accredited by the Commission on Collegiate Nursing Education (CCNE).

The CGN model assumes that students are active, self-directed adult learners, who are committed to safe and effective professional practice and rigorous courses of study. As learning is a personal responsibility, students, guided by faculty mentors, are accountable for the integrity of academic accomplishments, professional practice, and self-assessment. Students bring distinct backgrounds and have individual goals, which create differing responses to the learning process. CGN successes include high pass rates (NCLEX, national professional certification), employer satisfaction and student satisfaction.

### **VISION**

To continue to lead in the innovative use of best practices in graduate nursing education.

### **MISSION**

In accordance with the mission of Western University of Health Sciences, The College of Graduate Nursing faculty endeavor to:

- Promote the health and healing of diverse communities through high quality graduate nursing education.
- Create an environment that enhances each individual's intellectual and professional capacity via mentoring, inter-professional collaboration, current technology and clinical experiences guided by objectives in a learner centered model.
- Value clinical relevance by engaging in faculty practice, research, and other scholarly activities.
- Foster excellence, creativity, innovation, self-reflection, leadership, personal and professional accountability, collaboration, cultural sensitivity, and a passion for lifelong scholarship.

**PHILOSOPHY:** The College of Graduate Nursing Philosophy reflects values and perspectives that guide the faculty in carrying out the mission and ideals related to health, nursing, persons, educational beliefs, faculty/student relationships and the environment. Nursing, as a professional discipline, is an art and a humanistic science of caring. The art of nursing is a holistic health-illness experience encompassing the perception of moral and ethical significance of care and the integration of technical skill with relevant theory (Chinn and Kramer 1999, p. 189-90). The art of nursing employs critical thinking and respect and fosters open and effective oral and written

communication with clients and colleagues. The humanistic science of nursing is the generation and application of the body of theoretical nursing knowledge, behavioral and natural science, the humanities, and the arts, employed in a caring, respectful manner.

The professional practice of nursing is the directing of knowledge, competencies, and processes toward assisting persons to achieve quality of life, health, well being or respectful, dignified death. Nursing practice competencies include complex psychomotor and interpersonal skills, leadership, collaboration, self-evaluation, and scientific application and inquiry that are guided by professional standards. Processes include critical thinking, accountability, problem solving, decision-making, caring, advocacy, and involvement. Evidence-based professional nursing practice demands recognition that each individual has unique needs that can be assessed and incorporated into an evidenced-based nursing plan of care.

Persons who participate in family-centered nursing care are individuals with unique lifestyles, knowledge, beliefs and values, needs, and goals and are able to make autonomous decisions. Those practicing nursing incorporate complex biological, behavioral, emotional, socio-cultural, philosophical and spiritual dimensions and interact dynamically with their environment. Nurses interact through relationships with families and communities in various forms. Clients have a right and responsibility to participate collaboratively with nurses and other health professionals in decisions and shared accountability for positive health outcomes.

Environment is both the internal and external contexts of the individual. Environment involves reciprocal multidimensional and dynamic forces, which affect a person's health and well being.

Health is a multidimensional, adaptive state of being reflecting internal and external environmental and developmental influences. Health is a relative condition, characterized by wellness, illness, disease, or dysfunction. Health may be a reflection of individual perceptions of balance and harmony.

Nursing Education is a process that provides opportunities to expand and extend knowledge for continued growth and competency of the individual and the nursing profession. Nursing education draws on multiple disciplines and involves organized learning experiences that augment previous knowledge and skills in preparation to practice professional nursing. Nursing education is a flexible process that fosters creativity, independence and critical thinking. The faculty value self-directed learners, continual learning, and active engagement in a teaching/learning partnership. The educational process supports personal, social and intellectual development while assisting students to attain academic and professional goals. Through the provision of meaningful learning experiences, nursing education seeks to assist the learner to formulate and structure nursing knowledge, while distinguishing relevant from non-relevant information and developing safe and effective nursing practice. The educational program seeks to evoke honesty and excitement of discovery, encourage self-expression and serve as a catalyst for lifelong learning.

Teachers and learners in the learning community engage in interactive processes, which enhance the potential and respect of each person. Teachers act as facilitators, and through their expertise and skill, are role models for student professional practice. The faculty as a whole focuses on the provision and organization of the curriculum and provides a milieu that encourages questioning, growth, and mutual evaluation.

The CGN faculty believes that students are active, self-directed, adult learners who are committed to safe and effective professional practice and rigorous courses of study. Students are accountable for integrity of academic accomplishments, professional practice and self-assessment. Learning is a personal responsibility.

## **OUTCOME COMPETENCIES FOR GRADUATES**

Graduates of the Western University of Health Science's College of Graduate Nursing DNP Program will:

- a. Practice independently assuming full responsibility for practice by assessing, analyzing, managing and evaluating the health care needs of populations, including vulnerable populations, in the community and across health care settings.
- b. Critically analyze and translate data for practice by integrating knowledge from arts and sciences within the context of nursing's philosophical framework and scientific foundations.
- c. Assume increasingly complex leadership roles in the care of populations, especially vulnerable populations.

- d. Use the best available evidence to enhance practice quality and evaluate how organizational, structural, financial, marketing, and policy decisions impact cost, quality, and accessibility of health care especially for vulnerable populations.
- e. Apply clinical investigative skills for evaluation of health outcomes at the patient, family, population, including vulnerable populations, clinical unit, systems, and/or community levels.
- f. Demonstrate information literacy in complex decision making, translate technical and scientific health information for user need, and participate in the development of clinical information systems.
- g. Analyze ethical, legal, and social factors in policy development especially for vulnerable populations, influence health policy, and evaluate the impact of globalization on health care policy development.
- h. Apply knowledge of organizational behavior and demonstrate skill in negotiating, consensus-building, partnering, and managing risks to individuals, families, populations, including vulnerable populations, and health care systems.
- i. Apply ethically sound solutions to complex issues

Graduates of the Western University of Health Science's College of Graduate Nursing MSN program will:

- a. Critically analyze literature for the purpose of evidence-based advanced nursing practice, education and life-long scholarship.
- b. Participate in the development of new nursing knowledge through the application and development of theory and research.
- c. Apply knowledge from the humanities and physical, social, psychological, nursing, medical, and pharmacological sciences to professional decision-making to assess, provide and evaluate quality health care within the professional and legal parameters of the role of the professional nurse.
- d. Provide individualized, client and family-centered health care that demonstrates recognition of environmental interaction and diversity of socio-cultural values and beliefs among members of a dynamic society.
- e. Apply knowledge of changing national and local public policy related to health care standards, health care systems and financing when planning and providing health care for individuals, families, and communities.
- f. Empower clients for collaborative decision-making to achieve desired health care outcomes and quality of life through advocacy, caring, and the application of critical thinking skills, theories of learning and communication, and ethical principles.
- g. Integrate health promotion, illness prevention, and health maintenance strategies into holistic health care provided for diverse individuals, families, and communities.
- h. Exhibit leadership through participation in professional and community development activities and advocacy of the professional nurse.
- i. Demonstrate mastery of traditional and electronic access to information resources for research, study, and practice.

## **CURRICULUM DESCRIPTIONS**

The College of Graduate Nursing currently offers several program options/tracks:

- Doctor of Nursing Practice
- Master of Science in Nursing/Family Nurse Practitioner
- Post-Master's Family Nurse Practitioner
- Master of Science in Nursing Completion
- Master of Science in Nursing/Leadership and Management
- Master of Science in Nursing/Clinical Nurse Leader
- Master of Science in Nursing/Ambulatory Care Nursing
- Master of Science in Nursing – Entry
- Master of Science in Nursing – ADN/RN to MSN

Web-based learning is used in all programs. Graduate level courses combine on-line learning with campus-based seminars. On-line learning consists of asynchronous discussion boards, group projects, written assignments, competency assessments, and other learning activities. On-campus sessions include didactic classes, clinical training, simulation experiences, faculty and peer interaction, student presentations, competency assessments and guest lectures. This educational model is designed to meet the needs of adult learners, minimize time on campus,

and prepare advanced professional nurses. MSN-E students are prepared for web-based learning as early as their first semester of study. Pre-licensure courses include web-enhanced learning, clinical simulation, and interactive computer-based exercises in an on-campus environment.

**The Doctor of Nursing Practice (DNP).** The DNP program is designed for MSN prepared nurses. The curriculum requires the completion of 30 didactic semester units over a two year period and 1000 hours of supervised direct or indirect clinical practice. Supervised clinical hours completed in the student's MSN program contribute to the clinical practice hours. Clinical practice hours are integrated into six of the program courses. The last two semesters of the program are an immersion experience in which students complete a clinically based dissertation. Graduates will be prepared for the expanding role functions and needs of future advanced nursing practice. Transforming health care delivery recognizes the critical need for clinicians to design, evaluate, and continuously improve the context within which care is delivered. Nurses prepared at the doctoral level with a blend of clinical, organizational, economic, and leadership skills will be able to significantly impact health care outcomes. Prior to the fall start of the program, students may be required to complete CGN 5000 (Communication and Information Management) and attend one on-campus pre-program session during orientation. CGN 5000 takes place during the month of August. This course will orient students who are not familiar with using web-based learning to this pedagogy which will be used for all subsequent course work.

**The Master of Science in Nursing/Family Nurse Practitioner Program (MSN/FNP)** curriculum requires the completion of 49 didactic and 15 clinical semester units over a two- or three-year period. This program requires the completion of 675 preceptored clinical hours. Students begin clinical experiences in their first semester, after they have been cleared by the FNP faculty and will average 8-12 clinical hours per week. Graduates will be prepared to meet the criteria established by the California Board of Registered Nursing as advanced practice nurses. Family nurse practitioners work in a variety of health care settings independently, or in groups of health care professionals, under collaboratively developed and agreed upon standardized procedures. Prior to the Fall start of the program, students complete one course and attend one on-campus pre-program session during orientation. The course is CGN 5000 (Communication and Information Management) and takes place during the month of August. This course will orient students to using web-based learning for all subsequent course work.

**The Post-Master of Science in Nursing Family Nurse Practitioner Program (Post Master's FNP)** curriculum requires 29 didactic semester units and 15 units of clinical and can be completed in one year. This program requires the completion of 675 preceptored clinical hours. The FNP-only program is for nursing professionals who have a Master of Science in Nursing degree (MSN) and/or a doctorate in nursing and want to become certified as a Family Nurse Practitioner. The Post-Master of Science in Nursing FNP Certificate requires three to six semesters to complete, depending upon enrollment status (part-time or full-time). Graduates will be prepared to meet the criteria established by the California Board of Registered Nursing as advanced practice nurses. Students are required to enroll in CGN 5000 (Communication and Information Management) and attend the pre-program orientation session in the month of August. This course will orient students to using web-based learning for all subsequent coursework.

**The Master of Science in Nursing Program (MSN-only)** requires a minimum of 29 semester units and is designed for nurses holding a Nurse Practitioner certificate, and can be completed in, three (full-time) to six (part-time) semesters. This program is designed for family and specialty nurse practitioners (FNP, ANP, PNP, GNP, CRNA, CNM, Women's Health Practitioners) to obtain a master's degree that is focused on the functional role of the clinical specialty. Therefore for the culminating experience students are asked to complete a clinical improvement project incorporating evidence-based guidelines and quality indicators to advance patient care. Graduates are then able to obtain national certification in their specialty. Students are required to complete CGN 5000 prior to their Fall entry during the month of August. This course will orient students to web-based learning.

**The Master of Science in Nursing / Leadership and Management Program (MSN/LM)** requires students to complete 33 didactic and 3 clinical semester units and can be completed in six (full-time) semesters. This program is designed for bachelor's prepared Registered Nurses interested in obtaining a master's degree that is focused on clinical leadership and management in a variety of health care settings. Students selecting a Leadership and Management MSN program of study will be prepared to enter into nursing administrative, professional practice leadership development, and public health leadership roles. Students are required to complete CGN 5000 prior to their Fall entry during the month of August. This course will orient students to web-based learning.

**The Master of Science in Nursing / Clinical Nurse Leader Program (MSN/CNL)** requires students to complete 49 semester units (39 didactic units and 10 clinical units). This program can be completed in six (full-time) semesters. This program is designed for bachelor's prepared Registered Nurses interested in obtaining clinical practice leadership skills for the health care setting, with an emphasis on patient safety and health systems improvement.

The CNL engages highly skilled interprofessional clinicians in outcomes-based practice and quality improvement. The CNL oversees the care coordination of a distinct group of patients and actively provides direct patient care in complex situations. This master's degree-prepared clinician puts evidence-based practice into action to ensure that patients benefit from the latest innovations in care delivery. The CNL evaluates patient outcomes, assesses cohort risk, and has the decision-making authority to change care plans when necessary. The CNL is a leader in the health care delivery system, and the implementation of this role will vary across settings (*as retrieved off of the AACN website: www.aacn.nche.edu/publications/cnl6-04.doc*). Students are required to complete CGN 5000 prior to their Fall entry during the month of August. This course will orient students to web-based learning.

**The Master of Science in Nursing / Ambulatory Care Program (MSN/AMB)** requires students to complete 37 semester units. This program can be completed in six (full time) semesters. This program is designed to advance primary care for patients, families and communities in a variety of ambulatory settings. This master's degree prepared nurse utilizes evidence-based practice to ensure that patients and their families benefit from the latest knowledge to optimize their health in outpatient ambulatory settings such as, but not limited to, public health, community health, home health, school health and occupational health. Students are required to complete CGN 5000 prior to their Fall entry during the month of August. This course will orient students to web-based learning.

**The Master of Science in Nursing – Entry Program (MSN-E).** This program is designed as an entry into nursing program for students with bachelor's degrees that are not in nursing. MSN-E students to complete 59 units (36 units didactic and 24-26 units clinical) in the pre-licensure portion of the curriculum and 31-54 didactic units and 4-16 clinical units in the post-licensure portion of the curriculum, depending on the master's track selected. The RN pre-licensure portion of the MSN-E program (semesters 1-4) prepares students to meet society's need for professional nurses who think critically and exercise leadership in providing competent nursing care. These semesters focus on the application of the nursing process, which incorporates clinical decision making for assessing, diagnosing, implementing and evaluating a plan of care. The nursing process provides a framework for making decisions that require humanistic technical skills and scientific knowledge for nursing interventions. Nursing education and the nursing process incorporate the care components of health promotion, disease prevention, and restoration of health, client advocacy, cultural sensitivity, client safety/protection, hygiene, care, and comfort. Students who complete the pre-licensure semesters are prepared to sit for the NCLEX boards, and practice as care providers, health educators, and coordinators of client care and client care systems. These students will contribute to improving the quality of health care for their clients, families and the health care institutions and communities they serve.

The pre-licensure curriculum for the MSN-E program combines didactic learning on campus and clinical training at regional clinical facilities, as well as skills practice and critical experiences in simulation. Students can expect to be on campus a minimum of two days a week and at a clinical agency an additional two to three days a week. Post-licensure courses will be delivered using web-based learning and campus-based seminar sessions. This design provides students flexibility to become employed as an RN as they complete graduate coursework.

The post-licensure curriculum (beginning in semester 5) builds on the foundation of the pre-licensure curriculum. MSN-E students must pass the NCLEX exam by the end of the fifth semester in order to progress any further into the master's portion of the program. Upon securing their RN license, students are expected to be employed as registered nurses as they complete graduate coursework. This provides students with the unique opportunity to apply and integrate advanced knowledge and skills in their new professional role.

The post-licensure curriculum has four emphasis options and these options are: Family Nurse Practitioner, Ambulatory Care Nursing, Clinical Nurse Leader or Leadership and Management.

Note: Students choosing the MSN/FNP track must complete 2080 hours (1 year, full time) RN work experience prior to entry into the FNP certificate courses. Interim Permit hours do not count towards the needed RN hours.

**The Master of Science in Nursing – Associate Degree in Nursing to Masters Program (ADN/RN to MSN).** This program is designed for students who have an Associate Degree in Nursing to complete the Baccalaureate in Nursing Essentials (Bridge) courses and progress into the master's track of their choice. ADN-MSN students complete 44 didactic and 14 clinical semester units for the Clinical Nurse Leader track, 39 didactic and 6 clinical semester units for Leadership and Management track, 45 didactic units for Ambulatory Care, or 62 didactic and 18 clinical semester units for the FNP. This program can be completed in six (full time) semesters for the Leadership & Management, Clinical Nurse Leader or Ambulatory tracks and 9 (full time) semesters for FNP. Students who do not have previous RN work experience are expected to be employed as registered nurses as they complete graduate coursework. Students wishing to pursue the FNP track must have at least one year of full time RN experience before entering the FNP year. This program is designed for Associate Degree prepared Registered Nurses interested in advancing their professional career and obtaining an MSN degree that embraces a clinical or administrative focus.

Upon completion of the ADN/RN to MSN program, students will have to have met the BSN Essential competencies and MSN Essential competencies either through previous ADN or continuing education coursework or in the ADN/RN to MSN curriculum. A Non-BSN Prior Learning Assessment Portfolio will be used as a part of the application process to the program. Applicants will complete the Portfolio in addition to all other application requirements to demonstrate BSN Essentials.

Students are required to complete CGN 5000 prior to their Fall entry during the month of August. This course will orient students to web-based learning.

## **ACCREDITATION**

The MSN programs offered by the College of Graduate Nursing are California Board of Registered Nursing approved and professionally accredited by the Commission on Collegiate Nursing Education (CCNE). Graduates are eligible to apply for state certification and to sit for the appropriate national certification examinations. The DNP program is approved by WASC.

## **PREREQUISITE REQUIREMENTS**

### **Doctor of Nursing Practice (DNP)**

- Master of Science in Nursing from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- Professional certification or the completion of a minimum of 60 graduate units
- Nursing Theory (3 graduate semester units)
- Nursing Research (3 graduate semester units)
- Biostatistics (3 graduate level semester units)
- Epidemiology (3 semester units) (may be waived if integrated in MSN program)
- Registered Nurse (RN) licensure in the state where clinical hours will be completed

### **Master of Science in Nursing/Family Nurse Practitioner Program (MSN/FNP)**

- Bachelor of Science in Nursing\* from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- GPA of 3.0 in the last 60 semester units or 90 quarter units
- Statistics (3 semester units)
- Registered Nurse (RN) licensure in the state where preceptored clinical hours will be completed
- 1 year of experience as a Registered Nurse (RN)

### **Post-Master of Science in Nursing Family Nurse Practitioner Track (Post Master's FNP)**

- Master of Science in Nursing
- Bachelor of Science in Nursing\* from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- GPA of 3.0 in the last 60 semester units or 90 quarter units
- Statistics (3 semester units)
- Registered Nurse (RN) licensure in the state where preceptored clinical hours will be completed
- 1 year of experience as a Registered Nurse (RN)

### **Master of Science in Nursing Completion Track (MSN-Only)**

- Bachelor of Science in Nursing\* from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- Nurse Practitioner certificate (FNP, PNP, ANP, GNP, CRNA, CNM, or WHNP)
- GPA 3.0 in the last 60 semester units or 90 quarter units
- Statistics (3 semester units)
- Registered Nurse (RN) licensure
- 1 year of experience as a Registered Nurse (RN)

**Master of Science in Nursing / Leadership and Management Track (MSN/LM)**

- Bachelor of Science in Nursing\* from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- GPA 3.0 in the last 60 semester units or 90 quarter units
- Statistics (3 semester units)
- Registered Nurse (RN) licensure
- 1 year of experience as a Registered Nurse (RN)  
Students who do not have previous RN work experience are expected to be employed as registered nurses as they complete graduate coursework.

**Master of Science in Nursing / Clinical Nurse Leader Track (MSN/CNL)**

- Bachelor of Science in Nursing\* from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- GPA 3.0 in the last 60 semester units or 90 quarter units
- Statistics (3 semester units)
- Registered Nurse (RN) licensure
- 1 year of experience as a Registered Nurse (RN)  
Students who do not have previous RN work experience are expected to be employed as registered nurses as they complete graduate coursework.

**Master of Science in Nursing / Ambulatory Care Track (MSN/AMB)**

- Bachelor of Science in Nursing\* from a National League of Nursing (NLN) or Commission on Collegiate Nursing Education (CCNE) accredited program
- GPA 3.0 in the last 60 semester units or 90 quarter units
- Statistics (3 semester units)
- Registered Nurse (RN) licensure
- 1 year of experience as a Registered Nurse (RN)  
Students who do not have previous RN work experience are expected to be employed as registered nurses as they complete graduate coursework.

\*Bachelor's in a nursing related field will be reviewed on a case-by-case basis.

**Master of Science in Nursing – Entry Track (MSN-E)**

- Bachelor Degree in any field other than nursing from an accredited institution
- GPA of 3.0 in the last 60 semester units or 90 quarter units
- Completion of the following prerequisite courses with a grade of C or better in each:
  - Communications/English Composition (6 semester units)
  - Statistics (3 semester units)
  - Social Sciences (3 semester units)
  - Psychology (3 semester units)
  - Nutrition (3 semester units)
  - Human Anatomy (4 semester units) with lab (minimum of 5 units if combined with Physiology)
  - Human Physiology (4 semester units) with lab (minimum of 5 units if combined with Anatomy)
  - Microbiology (4 semester units) with lab

**Master of Science in Nursing – Associate Degree to Masters Track (ADN/RN - MSN)**

- Associate's Degree in Nursing from a BRN approved institution
- GPA of 3.0 in the last 60 semester units or 90 quarter units
- Completion of the following prerequisite courses with a grade of C or better in each:
  - Communications/English Composition (6 semester units)
  - Statistics (3 semester units)
  - Social Sciences (3 semester units)
  - Psychology (3 semester units)
  - Nutrition (3 semester units) (may be waived if integrated in your ADN program)
  - Human Anatomy (4 semester units) with lab (minimum of 5 units if combined with Physiology)

- Human Physiology (4 semester units) with lab (minimum of 5 units if combined with Anatomy)
  - Microbiology (4 semester units) with lab
- Non-BSN Prior Learning Assessment Portfolio
- Demonstrated capacity to succeed at a graduate degree level.
- 1 year of experience as a Registered Nurse (RN)  
Students who do not have previous RN work experience are expected to be employed as registered nurses as they complete graduate coursework.

Students who do not meet the requirements for admission into any of the College of Graduate Nursing programs may petition the Admissions Committee for special consideration. If admitted on probationary status, a student must achieve a GPA of 3.0 in pre-program and/or first semester courses with no options for remediation.

## **ADMISSION REQUIREMENTS**

### **DNP**

- Completed Application
- Personal Statement (career trajectory)
- Three Letters of Recommendation (from persons who can attest to the applicant's capacity for doctoral level work)
- Curriculum Vitae/Résumé
- Sample of scholarly writing (publication, unpublished manuscript, academic thesis or paper, work product or report, curriculum, other examples)
- Application Fee
- Official transcripts from all colleges/universities attended
- Copies of all applicable licenses and certifications

### **MSN/FNP, FNP, MSN Completion, MSN/L&M, MSN/CNL, MSN/AMB**

- Completed Application
- Three Reference Forms (faculty & employers within past two years)
- Curriculum Vitae/Résumé
- Personal Statement
  - MSN/FNP, MSN, FNP programs: Address your understanding of advanced practice nursing, your personal career goals and how your background strengthens your aptitude with regard to becoming an advanced practice nurse.
  - MSN/L&M, MSN/CNL, MSN/AMB programs: Address your understanding of professional nursing, your personal career goals and how your background strengthens your aptitude to become a master's prepared nurse leader
- Application Fee
- Official transcripts from all colleges/universities attended
- Copies of all applicable licenses

### **MSN-E**

- Completed application through the Centralized Application Service (NursingCAS) and college supplemental application
- Two Reference Forms (1 from professional colleague, 1 from faculty/employers)
- Curriculum Vitae/Résumé
- Personal Statement which addresses your motivation for graduate study to become a nurse, personal career goals, and how your background strengthens your aptitude to become a master's prepared nurse
- Application fee
- Official transcripts from all colleges/universities attended
- TOEFL scores for ESL applicants
- On-campus interview (for selected applicants)

**ADN/RN to MSN**

- Completed Application
- Three Reference Forms (1 from professional colleague, 2 from faculty/employers)
- Curriculum Vitae/Résumé
- Personal Statement which addresses your motivation for graduate study to become a Masters prepared nurse, personal career goals, and how your background strengthens your aptitude to become a master's prepared nurse
- Application fee
- Official transcripts from all colleges/universities attended
- Non-BSN Portfolio
- Copy of active RN license from the state in which you will be practicing
- TOEFL scores for ESL applicants
- Phone interview (for selected applicants)

**Decisions of the Admissions Committee regarding the admission of applicants to its programs are final.**

**COMPUTER REQUIREMENTS**

The following is a list of the MINIMUM computer equipment necessary for the Web-based programs:

- PC System – Minimum of 2 GHz processor (CPU) or equivalent with Windows XP Home or better (3.2 GHz CPU or better with Windows XP Professional is optimal)
- Minimum of 1 GB RAM
- 15" or larger CRT or Flat Panel Monitor with video display card capable of displaying at least 65,000 colors at 800x600 resolution with minimum 75 MHz flicker-free refresh rate
- 10 GB or more of free hard disk space (20 GB or more recommended)
- 16X CD-ROM drive (24X or faster highly recommended; combo CD/DVD player/burner for backups also recommended)
- Newest version of Microsoft Internet Explorer browser
- Microsoft Office 2007 Standard Suite or higher with Word, Excel and PowerPoint (Microsoft Works is NOT acceptable)
- Newest version of Virus Protection program with subscription that supports automatic weekly updates (such as McAfee Virus Scan or Norton AntiVirus)
- Newest version of Microsoft Outlook or Outlook Express
- Newest version of RealPlayer and/or Windows Media Player plug-in
- Newest version of Adobe Acrobat Reader plug-in
- 24 bit Sound Card and speakers
- Printer
- Dedicated Internet Connection and Internet Service Provider  
(Minimum: DSL, wireless, or cable modem broadband, with router-based firewall protection. A 56 kbps or higher modem with dedicated telephone line can be used for online course access if absolutely necessary, but will be inadequate for most supporting study materials.)

*These requirements are based on a PC system. Students who choose to work on Macintosh may have difficulties and will not be supported by the IT department. Many programs do not translate.*

Note: Although the College of Graduate Nursing does not require distance students to purchase a laptop computer, at this time, it is highly recommended. CGN post-licensure programs are web-based, and students may benefit from the use of a laptop computer during the scheduled on-campus Seminar Weekends. For those students who wish to purchase a laptop computer instead of the basic desktop, the following are the minimum and recommended specifications: <http://www.westernu.edu/bin/computing/computer-requirements-laptop.pdf>

**COMPUTER REQUIREMENTS FOR MSN-E PROGRAM**

Due to the nature of the pre-licensure portion of the MSN-E program, laptop computers and internet access will be required for the first four semesters of the program. Minimum and recommended specifications can be found at <http://www.westernu.edu/bin/computing/computer-requirements-laptop.pdf>

## **REGISTRATION**

Following completion of the admissions procedure and written documentation of acceptance into Western University's College of Graduate Nursing, an orientation packet will be mailed directly to the student. The University Registrar will send accepted students information about the registration process and dates. All students will complete registration for each semester and any pre-program courses on-line.

## **ORIENTATION**

All students enrolled in the College of Graduate Nursing will be required to attend the University campus orientation in August prior to beginning classes their first year. During orientation, students will participate in both college and university sessions. Students will be provided with packets, schedules, and dates for the university orientation program. Students are welcome to invite their family members to attend the annual Convocation and White Coat ceremonies which occur at the end of orientation week. Students will have the opportunity to purchase medical equipment, textbooks, and uniforms (if applicable).

### **Pre-Program (Orientation and CGN 5000)**

During Orientation, students in all programs will be required to attend mandatory sessions which will include computer skills training (e-mail, e-mail attachments, address book use, file management, and Microsoft software use), an introduction to computer-based learning, and an overview of the college curriculum. All required students will begin CGN 5000 Communication and Information Management, which prepares students for success in Western University of Health Sciences' computer-based courses, prior to orientation. All required students must successfully complete the pre-program course in order to begin fall courses.

DNP students who are not familiar with web-based pedagogy may be required to complete CGN 5000.

## **Medical Information**

### **Immunizations**

Please see the Overview section of this catalog for information about required immunizations and history and physical documentation.

### **CPR Certification**

Current American Heart Association Basic Life Support for Healthcare Providers certification is required throughout all programs of study. All students are required to successfully complete an American Heart Association Basic Life Support for Healthcare Providers course prior to beginning courses. It is the responsibility of the student, not the College of Graduate Nursing to assure that requirements are met and maintained. A copy of a current card verifying completion of a course must be on file in the College prior to beginning the program. If not completed, students will be blocked from registration or removed from classes. Students can contact the American Heart Association at [www.americanheart.org](http://www.americanheart.org) for dates, times, and location of CPR certification classes.

### **Health Insurance**

All students must be covered by health insurance throughout the program. Proof of health insurance must be provided at the time of registration annually.

### **Criminal Background Check For MSN-E Students**

To meet State regulations and hospital accreditation requirements, hospital facilities require nursing students to complete criminal background checks prior to matriculation. This new regulation serves to assure patient safety.

#### **MSN-E**

Students admitted to the MSN-E program will be required to complete a criminal background check prior to matriculation. Certain convictions may prevent students from entering hospital facilities, which may hinder a student's ability to successfully complete the MSN-E program. If a criminal conviction is shown on the background check, hospital facilities have discretion as to whether the individual may enter the clinical facility as a nursing student. In certain cases, the results of the background check may require that our offer of acceptance be revoked.

Certain convictions may also prevent students from obtaining RN licensure in the State of California or other states. Please visit the California Board of Registered Nursing website at [www.rn.ca.gov](http://www.rn.ca.gov) for more information about background checks required for RN licensure.

Upon acceptance of admission to the MSN-E program, applicants will be given the necessary information for completing the required criminal background check.

If a student takes a leave of absence or is placed on academic suspension during the MSN-E program, the student will be required to submit a new background check prior to returning.

### **Student Release Of Information**

All entering students will need to sign a release of information form authorizing the College of Graduate Nursing to release the student's social security number, health and immunization status, background check results, BLS verification, and health insurance coverage to any requesting agency that enters into a clinical partnership with the College. Additionally, some facilities may require fingerprinting. This is required for government and military health facilities who serve clients 18 years of age or younger.

### **TUITION AND FEES**

#### **Tuition**

By action of the Board of Trustees, the tuition and fees for the 2010-2011 year are as follows:

ADN/RN to MSN	40-63 units	@ \$704/unit
MSN-E (Pre-Licensure)	58 units	@ \$870/unit
MSN-E (Post-Licensure)	31-54 units	@ \$704/unit
MSN/FNP	49 units	@ \$704/unit
MSN/CNL	41 units	@ \$704/unit
MSN/LM	32 units	@ \$704/unit
MSN/AMB	32 units	@ \$704/unit
Post Master's FNP	30 units	@ \$704/unit
MSN (Completion) Only	29 units	@ \$704/unit
DNP	30 units	@ \$921/unit

*DNP students who are recipients of NFLP funding are required to complete two additional courses in their second year; those courses are CGN 8001 Fundamentals for Nurse Educators and CGN 8002 Evidence and Innovation in Nursing Education. A part time curriculum grid for the second and optional third year will be available for NFLP recipients.*

#### **Other Fees and Expenses**

Clinical Fee (non-refundable)	\$520/semester for clinical enrollment
Application Fee	\$ 60
Student Body Fee	\$ 40/year
Required Textbooks	\$2000 (approximate)
Graduation Fee (assessed on candidates for graduation only)	\$ 200
Medical Equipment	\$ 400 (approximate)
Computer	\$1850 (approximate)
Western University Parking Permit Fee	\$ 400 (annual, optional)
Lodging/Meals/Travel	varies, depending on distance and mode of travel.
Administrative Fee	\$ 500/semester (applies to students who extend program)
ANCC FNP Review Course Fee	\$ 400 (one time fee for all FNP students)

#### **Additional Fees and Expenses for Pre-Licensure MSN-E Students**

Clinical Education Fee (non-refundable)	\$ 500 (per semester when enrolled in a clinical course)
Uniform	\$ 200 (approximate)
On-line Curriculum Support Fee	\$ 400 (For Pre-licensure)
Parking per year	\$ 400
Background Check	\$ 60 (approximate)
Drug Screen	\$ 40 (approximate)
2-day Odyssey Conference Fee	\$ 110 (required attendance for Pre-Licensure)

Note: All tuition and fees are subject to change. Fees are non-refundable.

### **Administrative and Clinical Fees for Additional Terms**

Students who are extending their program to complete their program requirements must pay the clinical fee if applicable (\$520) and the administrative fee (\$500) for each semester that enrollment is continued. This option is only available with the approval of the Program Director and the Dean.

Students extending their course of study for one semester to complete the culminating or masters project will be assessed the administrative fee of \$500.

DNP students who are in progress with the dissertation will be assessed the \$500 administrative fee for each semester until defense status is reached. DNP students will not be registered as active student during this extension period.

### **TEXTBOOKS**

Students are responsible for obtaining all textbooks prior to the beginning of each semester. Students may purchase textbooks through the Western University Bookstore. Students may explore other purchasing options as well (i.e. other medical bookstores, on-line book sellers, etc), however the expectation is that students will be in possession of all required textbooks by the first day of the semester, regardless of the purchase source.

Western University Bookstore hours are 7:30 am to 5:00 p.m. Monday-Friday. Summer hours are reduced to 8:00 am to 4:30 pm. In addition, books can be ordered from the Web by linking to the bookstore from the University's home page. Software and media resources are also available. For students using credit cards, textbooks may be ordered by phone or via the Web and mailed directly to a student's home. The Western University Bookstore phone number is (909) 469-5416.

### **REQUIRED SUPPLIES FOR CLINICAL**

#### **MSN-E Pre-Licensure**

Students must have the following items:

- Watch with a second hand
- Two (2) Official CGN Uniforms
- Western U CGN Name Tag (to be worn at all times in clinical setting)
- Stethoscope with bell and diaphragm
- Penlight
- Kelly clamp
- Bandage Scissors
- Calipers

#### **MSN/FNP, Post-Masters FNP**

Students must have the following items:

- White Lab Coat (to be worn at all times in clinical setting)
- Western U CGN Name Tag (to be worn at all times in clinical setting)
- Ophthalmoscope/Otoscope
- Reflex Hammer (optional)
- Stethoscope with bell and diaphragm

All equipment may be purchased from any medical supply company or the University Bookstore.

### **GENERAL COLLEGE ACADEMIC POLICIES AND PROCEDURES**

#### **Instructional Design**

##### **Campus Learning (Pre-Licensure Courses)**

The pre-licensure curriculum for the MSN-E program is designed for the adult learner and uses both traditional campus-based learning and introduction to web-based learning. Didactic courses will include lecture, simulated clinical experiences, clinical skills training, and structured laboratory experiences. Students will begin acute care hospital experiences in semester one.

### Distance Learning (Post-Licensure Courses)

The College of Graduate Nursing program is designed for the adult learner. The design uses educational and instructional learning theories that emphasize outcome competencies as the desired goal, rather than time on task, and individualized instructional strategies as well as classroom and clinical instruction.

The instructional modality that is most evident in this curriculum is web-based learning. The majority of courses include required asynchronous discussion sessions in which students and faculty participate in collaborative learning of the assigned readings. Students are expected to be on-line and engaged in learning activities from the first day of the first semester. The CGN website is designed to provide the learner with the information needed to be successful in each course including learning objectives, content, learning activities, evaluation methods and grading criteria.

### Integrated Courses

For the Nurse Practitioner tracks (MSN/FNP, Post Master's FNP) health care issues are studied across the life span with a focus on groups of specific health care problems, namely, common, acute, chronic and complex health care problems for each age group. The course of study is planned to allow for integration of knowledge and skills across each area of study.

### American Psychological Association Format

Scholarly writing is the cornerstone and capstone of critical thinking and evidence-based knowledge in graduate education. Students are expected to conduct professional nursing and interprofessional health literature reviews and analyze findings in scholarly formal papers and designated discussion boards throughout their course of study. Students are expected to follow the guidelines of APA in all of the requirements for a scholarly submission.

The College of Graduate Nursing requires the most current edition of the APA formatting style for all formal papers. The *Publication Manual of the American Psychological Association* may be purchased at the University Bookstore.

### Academic Year

The College of Graduate Nursing has a twelve-month academic calendar which begins in August and includes three semesters with breaks between each semester as well as a one week spring and summer break. Approximate times for semesters are:

Fall: August – December      Spring: January – April      Summer: April – August

The first year MSN-E students have one additional week in their first semester of study at the start of term.

### Full-time/Part-Time Status

Graduate nursing students enrolled in 5 or more units are considered full-time students. Graduate nursing students enrolled in less than 5 units are considered part-time students.

### Academic Progression

Standard admission and matriculation to the CGN program is intended for full-time enrollment. Depending upon the particular program, however, some students may choose part-time curriculum. Each of the programs offered is built around a sequence of courses that builds on knowledge and skills attained in prior courses. Consequently, academic progression is based on successful completion of each course in a program, in sequence. Students are expected to enroll in and successfully complete each course in a sequential progression.

Part-time enrollment is possible for all programs except the pre-licensure (RN) portion of the MSN-E and the DNP programs. DNP students who are NFLP grant recipients will be allowed to take a modified (part time) curriculum. Students anticipating part-time enrollment should discuss plans with the program director prior to matriculation. Students who decide to switch from full-time enrollment to part-time enrollment must determine a completion plan with the Program Director.

The maximum time allowed for the completion of all academic requirements is as follows:

6 years for the DNP program

6 years for the MSN/FNP program

4 years for the post-masters FNP program

3 years for the MSN completion

6 years for the MSN in Leadership & Management, Ambulatory Care or CNL tracks

6 years for the ADN/RN to MSN program (all tracks)

8 years for the MSNE program (all tracks)

### **Standards of Academic Performance**

For successful progression through the curriculum, the College of Graduate Nursing has a standard of academic performance which is higher than that for undergraduate education. An overall grade point average of 3.0 is required for progression from pre-licensure to post-licensure courses and for graduation. Each student's progress is based on successful attainment of the Outcome Competencies (as outlined in the curriculum) and through demonstration of critical thinking skills and competency in written and oral communication. The faculty determines if the student has demonstrated the knowledge, skills and attitudes necessary to be eligible to progress to the next semester.

### **Attendance Policies**

#### **Seminar Weekend Attendance**

Two campus-based seminar weekends are held each semester for students in Distance Courses. These seminars provide valuable time for faculty and peer interaction, student presentations, lectures, clinical and didactic testing, skills laboratories, and selected clinical practice with faculty. The first seminar weekend usually occurs by week 2 of the fall semester and week 5 in the spring and summer semesters, and the second seminar weekend usually occurs during week 10 of each semester. Seminar weekends generally begin at 8 a.m. on Friday and conclude on Sunday. The seminar weekend may need to be lengthened or changed so that all coursework can be completed or to accommodate a major University event.

Dates of the weekend seminars are published on the CGN academic calendar. **Attendance is mandatory for all seminars. Any student in need of an emergency release from a Seminar weekend must make the request with the Assistant Dean of Distance Learning. The Assistant Dean of Distance Learning in consultation with the faculty of record will then render a decision and send notice to the student. Any absence or partial absence from a seminar weekend, that does not have clearance from the Assistant Dean of Distance Learning, will be considered an unexcused absence and may affect the grade in each course missed, and could delay the students expected graduation by as much as one year.**

Students who do not comply with this policy must make an appointment with the Assistant Dean of Distance Learning immediately to avoid termination of their enrollment for the semester in question. Additionally, students who extend their program beyond the normal expected date of completion may be required to attend seminar sessions during that extension and are subject to additional administrative fees.

Attendance is required at all scheduled instructional periods, be they on-line or during a Seminar weekend. Absence or tardiness from instructional periods for any reason does not relieve the student from responsibility for the material covered during these periods. Absence problems will be viewed as violations of the Standards of Professional Conduct.

#### **DNP Clinical Attendance**

Clinical hours are integrated into six of the program courses. **Note: Once accepted into the DNP program, DNP students are required to show Verification of supervised clinical hours from the MSN program.** The last course, CGN 8090 Clinical Project, serves as a clinical immersion experience. During clinical courses the course faculty will serve as a mentor for the clinical work of the course. During the completion of the clinical project the student's project committee will serve as mentors for the student. In addition each student will have a clinical resource person at each agency in which they complete clinical hours. As a clinically-based program, it is expected that students complete all clinical requirements of each clinical course and the clinical project. Unexcused absences from planned clinical experiences are not acceptable. Students are responsible for notifying the clinical agency and/or clinical resource person before the scheduled clinical time if he/she is unable to attend a planned clinical experience.

#### **FNP Clinical Attendance**

As a clinically-based program, it is expected that students will follow the guidelines as presented in the syllabus for CGN 7570 (Clinical Experience) course and in the Clinical Preceptor Guide. Unexcused absences from planned clinical experiences are not acceptable. The Clinical Preceptor will inform the Clinical Administrator of all unexcused absences within 72 hours of the absence. As stated in the syllabus for CGN 7570 (Clinical Experience) course, students are responsible for notifying the Clinical Preceptor before the scheduled clinical time if he/she is unable to attend.

#### MSN-E Pre-licensure Attendance for Campus-based Courses

Students may not miss any more than 2 class sessions per course for campus-based courses (offered in semesters 1-4). The student must notify the professor prior to the scheduled beginning of the class period of his/her absence. If a student misses more than 2 class sessions of a course, the student will be required to meet with the faculty member to determine if remediation is required to meet course objectives. The student may be required to meet with the Program Director also.

#### MSN-E Pre-licensure Clinical Attendance

Clinical rotations are required for students to successfully complete this program. Students are required to report to all clinical rotations and to be on time. If the student will be late or absent, the student must notify the clinical instructor and the rotation unit prior to the scheduled rotation start time. Because clinical time is mandated by the Board of Registered Nursing, students who miss clinical hours will still be held responsible for mastering the clinical objectives within instructor approved settings. To meet the objectives for clinical courses, students may not miss more than 15% of the required clinical hours for the course. If a student misses more than 15% of the required clinical hours for a course, the student will fail the course. The student may appeal this decision through a written petition to the Director of the program. The Director, in consultation with the clinical faculty, will determine whether the student will be allowed to continue in the clinical or seek a referral with the Student Performance Committee for further consideration.

#### ADN/MSN, Leadership/Management, CNL Clinical Attendance

It is expected that students will follow the guidelines as presented in the syllabus for their clinical experience courses and in the Clinical Preceptor Guide. Unexcused absences from planned clinical experiences are not acceptable. The Clinical Preceptor will inform the Faculty of Record of all unexcused absences within 72 hours of the absence. As stated in the syllabus for the clinical experience courses, students are responsible for notifying the Clinical Preceptor before the scheduled clinical time if he/she is unable to attend.

#### Electronic Mail Correspondence Policy

The CGN recognizes the necessity of providing its students, faculty and staff with guidelines and policies concerning the use of electronic mail for University purposes. Faculty, staff and students of the CGN are expected to respond to electronic communication within 72 hours of receipt. All CGN e-mail users must adhere to the following guidelines, in addition to the University's Appropriate Use policies.

1. Every student, faculty and staff member of the CGN must have a current version of AntiVirus software installed on any computer used to send and receive files or correspondence with other members of WesternU.
2. Students must only forward appropriate e-mail content. Students will carefully review all parts of an e-mail, including wording written by another person prior to forwarding an e-mail.
3. E-mail is not a completely secure communication medium. Faculty, staff and students must take responsibility for e-mail content and be sensitive to confidential information.
4. The CGN bans the mass forwarding of jokes and humorous messages. Students will use discretion and courtesy when choosing recipients of such messages.
5. Students need to be aware that hoaxes, urban legends and unsubstantiated virus warnings perpetuate fear and waste time. Prior to forwarding such messages, the sender must first substantiate it to the best of his/her ability and then only forward it to CGN for distribution to students and faculty.

#### Social Networking Guidelines

The CGN understands the potential benefits of electronic social networking sites, but also recognizes the inherent risks that come with their misuse. In an effort to help protect our faculty, staff and students the college has established the following guidelines.

1. Respect copyright laws, and reference or cite sources appropriately. Plagiarism applies online as well.
2. Be aware that University/College or Hospital partner logos and trademarks may not be used without written consent.
3. Understand that your online presence will also reflect upon your professional image. Weigh the risks and benefits of self-disclosure.
4. Always respect the delicate relationship between patient and healthcare provider, student and faculty, and employer and employee.

5. Information that you post should comply with existing policies and laws governing privacy and dissemination of data.
6. Be sure to clearly state that the view expressed are your own and do not represent the views of others.
7. Remember that electronic sites are never completely secure and that what you post, when seen by one, will eventually be shared with others.

## **Essential Skills**

### **Computer Literacy**

Students are expected to have basic computer literacy skills prior to enrollment. Students should demonstrate skill in basic word processing, Microsoft applications (Word, PowerPoint, Excel), use of the internet, e-mail, and on-line literature searches. Students will be expected to meet Basic Computer Competencies, Information Literacy, and Clinical Information Management competencies as outlined in the TIGER (Technology Informatics Guiding Education Reform) Initiative (<http://tigercompetencies.pbworks.com>).

### **Intellectual Skills**

In addition to essential academic content and performance skills, each course requires learning activities that foster intellectual skill development for critical thinking and decision making as well as oral and written communication.

### **Technical Guidelines for Nursing Practice (Pre-licensure)**

Nursing education requires not only the accumulation of scientific knowledge, but also the simultaneous acquisition of technical skills and professional attitudes and behavior. Nursing school faculties have the responsibility to society to matriculate and graduate the best possible nurses. Admission to nursing school has been offered to those most qualified for the practice of nursing. Technical standards presented in this document are prerequisite for admission and graduation from the College of Graduate Nursing at Western University of Health Sciences. Graduates of the CGN must have the knowledge and skills to function in a broad variety of clinical situations and to render a wide spectrum of patient care services. All courses in the pre-licensure curriculum are required in order to develop the essential skills necessary to become a competent nurse.

There are essential functions or abilities necessary for admission and progression in the College of Graduate Nursing program at Western University of Health Sciences. The candidate must be able to perform all of the essential functions (with or without accommodations). The College of Graduate Nursing follows the Western University non-discrimination policy, and students requesting accommodations should contact the Harris Family Center for Disability and Health Policy (HFCDHP) at (909) 469-5380. These essential functions include, but are not limited to, the following:

**Observation (sensory):** Candidates must be able to accurately observe patients and demonstrations close up and at a distance to learn skills and to gather patient data (e.g., observe a patient's gait, appearance, posture, etc.). Candidates also must possess functional use of the sense of vision and somatic sensation. Observation is enhanced by the functional use of the sense of smell.

**Communication:** Candidates must have the ability to communicate orally and in writing with patients, families, groups, and other members of the healthcare team, as well as faculty and peers. Candidates must also be able to effectively interpret communication of others. Candidates also must be able to read and comprehend written material.

**Psychomotor Skills:** Candidates must have sufficient motor function to perform nursing tasks and to obtain data from patients using tactile, auditory and visual maneuvers. Candidates must be able to execute motor movements to provide required general nursing care as well as emergency treatments.

**Mobility and Stamina:** A student must possess sufficient gross and fine motor skills and endurance to provide safe and effective nursing care in all health care settings. Students must have the ability to perform basic life support (including CPR); function in an emergency situation; safely assist a patient in moving (e.g., from wheelchair to commode, from chair to bed, lift and transfer from gurney to bed); calibrate and use equipment; perform treatments and procedures; apply pressure to stop bleeding; manipulate diagnostic instruments to adequately perform a physical assessment; and sit, stand and move about in patient environments for 12-hour periods.

**Tactile:** A student must have sufficient tactile ability to perform a physical assessment of a patient and to perform procedures necessary for nursing care. Students must have the ability to perform palpation and other functions necessary for a physical exam; assess texture, shape, size and vibration; note temperature changes in skin

and equipment; perform therapeutic functions (e.g., inserting a urinary catheter or IV, change dressings, give medications).

**Intellectual and Cognitive Abilities:** Candidates must be able to measure, calculate, reason, analyze, synthesize, integrate and apply information in making clinical judgments. Problem-solving, a clinical skill required of nurses, requires all of these intellectual abilities. In addition, candidates must be able to comprehend 3-D relationships and to understand the special relationships of structures.

**Behavioral and Social Attributes:** Candidates must possess the emotional health required to use their intellectual abilities fully. This may be demonstrated by exercising good judgment, promptly completing all responsibilities attendant to the care of patients and aggregates, and developing mature, sensitive and effective relationships with patients, families and other health care workers as well as faculty and peers. Candidates must be able to tolerate physically taxing workloads and to function effectively under stress. They must be able to adapt to changing environments, to display flexibility and to learn to function in the face of uncertainties and ambiguities.

**Ethical Standards:** A candidate must demonstrate the ability to reason morally and practice nursing in a professional and ethical manner with patients, families, and other health care workers as well as with faculty and peers.

#### Reasonable Accommodation for Candidates/Students with Disabilities

Students must be able to perform all the essential functions of the program with or without accommodation. A student who discloses a disability and requests accommodation will be referred to the HFCDHP. The student may be asked to provide documentation of the disability for the purposes of determining appropriate accommodations. The College of Graduate Nursing will provide reasonable accommodations, but is not required to make modifications that would substantially alter the nature or requirements of the program. A student with questions regarding reasonable accommodation can contact the HFCDHP Office.

### **Certifications and Licensures**

#### National Council on Licensure Exam (NCLEX)

The Board of Registered Nursing (BRN) allows the candidates for RN licensure to complete the necessary paperwork for the NCLEX exam four months prior to taking the test. Students are directed to the California BRN website at [www.rn.ca.gov](http://www.rn.ca.gov) for current information regarding the NCLEX application. The college will submit required verification of courses completed four weeks prior to students sitting for the NCLEX exam. Official transcripts need to be ordered by the student in order for the College of Graduate Nursing to send them to the BRN. If the student fails the exam the first time he or she will be required to wait forty-five days before retaking the exam. Pre-licensure students must pass the NCLEX exam by the end of the fifth semester in order to progress any further into the master's portion of the program. Students who do not pass the NCLEX by the end of the fifth semester will be put on Academic Suspension. Students who are subject to academic suspension for this reason may petition the Student Performance Committee for an extension of the time needed to pass the NCLEX examination. Students are required to be finger-printed to be licensed as an RN. Students must divulge any prior convictions or misdemeanors during the license application process. If prior infractions of the law are not divulged, students may be banned from licensure.

#### National Certification as a Nurse Practitioner

Graduates are required to take the national certification exam as a family nurse practitioner within six months of graduation. Most states require students to pass the national certification exam for licensure. Therefore, students are encouraged to contact their Board of Registered Nursing prior to enrollment to clarify state requirements. Currently there are two bodies which provide certification for nurse practitioners: the American Nurses Credentialing Center (ANCC) of the American Nurses Association and the American Academy of Nurse Practitioners (AANP). Most states require national certification to practice as a nurse practitioner. Students should check with their state's board of nursing to decide which exam is required.

#### **Academic/Clinical Advisement**

All students are assigned a faculty advisor upon matriculation into the program. Entering students are encouraged to contact their faculty advisor no later than the first month of enrollment in the program. Such contact may take place in person, on-line, or on the telephone. Although advisors are assigned, the student may, with the agreement of the Program Director, request a different advisor. Reasonable efforts will be made to assign a student to the advisor of choice.

Continuing students have the opportunity to contact designated faculty advisors and/or individual instructors online, by appointment in person or telephone, or at any Seminar Weekend. Regular and on-going contact with the academic advisor is encouraged as one method to enhance success in the program.

### **Residency Requirement**

A minimum of 17 units must be taken in residence at Western University of Health Sciences to receive a Nurse Practitioner Certificate or Master of Science in Nursing degree from the University and 18 units for the Doctor of Nursing Practice degree.

### **Course Waiver (challenge) Policy**

Course challenge is defined as a student request for exemption from a specific Western University course requirement due to prior similar coursework. The College of Graduate Nursing does not accept undergraduate course work for graduate level credit. Graduate level courses taken at accredited institutions can be used for credit provided that the course work meets the corresponding requirements of the CGN course.

A student may request to waive a course in the following situation: If he/she can demonstrate a similar course was taken at another accredited academic institution, within the past five years, with a minimum grade of C (pre-licensure) or B- (post-licensure) earned in that course. A similar course is defined as a course that covers a significant portion of the Western University course content (to be determined by the Western University course instructor).

All courses offered by the CGN may be waived except the following:

- CGN 5000 – Communication and Information Management
- IPE 5000 – Interprofessional Education
- IPE 5100 – Interprofessional Education
- IPE 6000 – Interprofessional Education
- IPE 6100 – Interprofessional Education
- CGN 5610 – Professional Role
- CGN 5690 – Clinical Comps I
- CGN 5691 – Clinical Comps II
- CGN 5900 – Collaborative Project
- CGN 5990 – APN Master’s Project
- CGN 5999 – Master’s Project
- CGN 6202 – Health Assessment (clinical)
- CGN 6411 – Nursing Fundamentals (clinical)
- CGN 6502 – Nursing of Adults and Older Adults I (clinical)
- CGN 6552 – Nursing of Adults and Older Adults II (clinical)
- CGN 6602 – Mental Health Nursing (clinical)
- CGN 6711 – Obstetric Nursing (clinical)
- CGN 6721 – Pediatric Nursing (clinical)
- CGN 6802 – Leadership and Management in Nursing (clinical)
- CGN 6902 – Community Health Nursing (clinical)
- CGN 7540 – Leadership/Management Practicum/Seminar
- CGN 7541 – Leadership/Management Practicum
- CGN 7550 – RN Clinical Seminar
- CGN 7560 – CNL Clinical Experience/Seminar
- CGN 7561 – CNL Clinical Experience
- CGN 8090 – Clinical Project

**Procedure for Waiving a Course:** Any student who wishes to have a course waived must submit in writing to the Program Director at least Thirty (30) days prior to registration for the academic semester in which the course would normally be taken:

1. his/her intent to waive a course, and
2. documentation, including course description, course outlines, course syllabus, completed work, transcripts, etc., to demonstrate course equivalency.

It is the responsibility of the student to provide sufficient documentation to show equivalency to Western University coursework. Upon receipt of the student's intent to waive and the written documentation of course equivalency, the Program Director will submit the written documentation to the faculty member teaching the Western University course that is being challenged for review and consideration of challenge approval. The faculty member will review the documentation and issue a recommendation to allow or deny the waiver to the Program Director at least 10 days prior to the date of registration for the academic semester in which the course is scheduled. No tuition fees are paid for these waived units, and the waived courses do not count in the computation of the GPA.

**Appealing Course Waiver Decisions:** Students have a right to appeal the faculty member's recommendation to deny a course waiver. Such appeals will be forwarded to the Dean of the CGN who has final authority in the waiver determination. The Registrar will be informed of the final determination of the course waiver request.

### **General Evaluation and Grading Policy**

Inquiry-based and competency-based assessments are the underlying principles for the instructional design of the CGN program and the evaluation of student achievement. To this end, each course has specific learning objectives, evaluative criteria and expected outcomes. Assessment methods are stated in each course syllabus.

#### **MSN-E Program (Pre-licensure Grading Policy)**

A grade of C or higher is required in each course in the pre-licensure portion. Pre-licensure courses are courses numbered in the 6000s (CGN 6000 – CGN 6999). Minimum competency, as outlined in the course syllabi for each course, is required to achieve a passing grade of C or higher. Attainment of a grade below a C denotes unacceptable performance and is grounds for dismissal from the program.

Students are required by the College to maintain a 3.0 GPA or higher each semester of the MSN-E program in order to remain in good standing. If a student does not maintain an overall GPA of 3.0 or higher for each semester, the student will be referred to the Student Performance Committee for review and be placed on Academic Probation.

MSN-E students will be required to have a cumulative GPA of 3.0 or higher for the first four semesters (pre-licensure courses) to progress to the post-licensure courses.

#### **The grading scale for the pre-licensure RN portion of the MSN-E Program is as follows:**

<b>Letter Grade</b>	<b>Percentage</b>	<b>Grade Points</b>
<b>A</b>	<b>100-94</b>	<b>4.0</b>
<b>A-</b>	<b>93-90</b>	<b>3.7</b>
<b>B+</b>	<b>89-87</b>	<b>3.3</b>
<b>B</b>	<b>86-83</b>	<b>3.0</b>
<b>B-</b>	<b>82-80</b>	<b>2.7</b>
<b>C+</b>	<b>79-77</b>	<b>2.3</b>
<b>C</b>	<b>76-73</b>	<b>2.0</b>
<b>U</b>	<b>Below 73</b>	<b>0.0</b>
<b>I</b>	<b>Incomplete</b>	<b>0.0</b>
<b>W</b>	<b>Withdrawal</b>	<b>0.0</b>

#### **Master's core and Post-Licensure Courses Grading Policy**

The cumulative grade of 80% (B-) or better is required to demonstrate an acceptable level of performance and enable the student to progress in the curriculum. Graded assignments for each course are included in the course syllabus. Students may be given the opportunity to remediate one learning component within a course to meet the cumulative letter grade requirement.

#### **The grading scale for the master's core and post-licensure level courses will be as follows:**

<b>Letter Grade</b>	<b>Percentage</b>	<b>Grade Points</b>
<b>A</b>	<b>100-94</b>	<b>4.0</b>
<b>A-</b>	<b>93-90</b>	<b>3.7</b>

<b>B+</b>	<b>89-87</b>	<b>3.3</b>
<b>B</b>	<b>86-83</b>	<b>3.0</b>
<b>B-</b>	<b>82-80</b>	<b>2.7</b>
<b>U</b>	<b>Below 80</b>	<b>0.0</b>
<b>I</b>	<b>Incomplete</b>	<b>0.0</b>
<b>W</b>	<b>Withdrawal</b>	<b>0.0</b>

**The grading scale for the doctoral level courses will be as follows:**

<b>Letter Grade</b>	<b>Percentage</b>	<b>Grade Points</b>
<b>A</b>	<b>100-94</b>	<b>4.0</b>
<b>A-</b>	<b>93-90</b>	<b>3.7</b>
<b>B+</b>	<b>89-87</b>	<b>3.3</b>
<b>B</b>	<b>86-83</b>	<b>3.0</b>
<b>B-</b>	<b>82-80</b>	<b>2.7</b>
<b>U</b>	<b>Below 80</b>	<b>0.0</b>
<b>CR</b>	<b>Credit</b>	<b>0.0</b>
<b>NCR</b>	<b>No Credit</b>	<b>0.0</b>
<b>I</b>	<b>Incomplete</b>	<b>0.0</b>
<b>IP</b> (DNP 8090 only)	<b>In Progress</b>	<b>0.0</b>
<b>W</b>	<b>Withdrawal</b>	<b>0.0</b>

**I** = Achievement of an “I” denotes an Incomplete, which signifies that a portion of the required coursework has not been completed and evaluated. Students must submit a plan for completion that meets approval by the faculty of record. Students who receive two incomplete grades in one semester will be placed on academic probation. Students who are enrolled in sequential theory courses will not be able to progress in the curriculum unless the course is completed successfully prior to the next semester or instructor approval is given. The grade of Incomplete will be recorded on the official transcript and a final grade will be assigned upon completion of course work. If the student does not satisfactorily complete the contractual agreement or has not completed the work within one year, a grade of U will be given with recommendation for dismissal from the College of Graduate Nursing.

**U** = A grade of “U” denotes unacceptable performance. Students who do not meet the remediation standards for an Incomplete will be given the grade of “U”. Students who receive a “U” for any course will be placed on probation and will be unable to progress in the curriculum without a formal review by the Student Performance Committee, who will then give their recommendation to the Dean.

**DNP Culminating Project: The Clinical Dissertation**

The culminating project will be an independent individual student demonstration of program outcome competencies facilitated by a three member (minimum) project committee including a Chair, an academic member, and a community member. The committee Chair will be a faculty member from the College of Graduate Nursing. The academic member of the committee will be graduate nursing faculty. The community committee member will be a person from the project’s targeted community or institution who can provide support and guidance during the project. The community committee member may be a person that has served as a preceptor or mentor to the student during clinical coursework in the program, so that they are someone who is familiar with the student’s work. The community member will be asked to assess the project for relevance and contribution to the community or institution from which it has originated. Final approval of all project committee members will be made by the College of Graduate Nursing DNP Director.

**Clinical, Practicum and RN Seminar Grading Policy**

CGN 7570 (Primary Care Clinical), 7560 (CNL Clinical Experience), CGN 7550 (RN Seminar) and CGN 5700 (Practicum/Seminar) are graded as credit/no-credit and are not included in the numerical values for computing grade point averages.

**Credit (CR) =** Achievement of the grade “Credit” signifies that a student meets the acceptable level of performance in a graduate level course.

No Credit (NCR) =	Achievement of the grade “No Credit” indicates an unacceptable level of performance in a graduate level course. A grade of “No Credit” is the equivalent of a “U” grade. Students who receive an “NCR” grade for a clinical rotation may be dismissed from the program or may be required to repeat all hours obtained during that experience. If a student does not comply with the remediation contract, the student will be dismissed from the College.
Incomplete (I) =	Achievement of the grade “incomplete” signifies that all required clinical hours for the enrolled number of units have not been completed. Students who receive two incomplete grades in one semester will be placed on academic probation. The grade of “I” will be recorded on the official transcript and a final grade assigned upon the satisfactory completion of all clinical hours.

### **Academic Probation**

Students must maintain a cumulative GPA of at least 3.0 each semester. If a student’s GPA is below 3.0 for a semester or receives two or more “incomplete” grades in one semester, the student will be placed on academic probation. Students may only be on academic probation for a maximum of two semesters. Students who are subject to academic probation for a third semester will be reviewed by the Student Performance Committee and may be at risk for dismissal. (See SPC section of this catalog section for process)

### **Failed Course Policy**

If a student fails a course, they may not take an equivalent course at another institution and transfer the course to Western University. Students who fail a CGN course must retake and pass the course through the College of Graduate Nursing. Students failing a course may be reviewed by the Student Performance Committee and placed on academic suspension. (See SPC section of this handbook for process)

### **Assignment Due Dates**

Assignments for all classes will be submitted to the instructor on the date listed in the syllabus. Each instructor will clarify these dates at the beginning of each semester. It is the student’s responsibility to contact the instructor if any due date is unclear. If an assignment is submitted on-line, the student is responsible for ensuring that the assignment was received or posted in a timely manner. It is each individual instructor’s discretion whether to accept late work. The instructor has the right to refuse to accept an assignment turned in after the due date. Late assignments will, at a minimum, receive point deductions. The instructor will notify the student at the beginning of each semester of the number of points that will be deducted for late assignments. Postings after the closing of an on-line discussion board will receive a grade of zero.

### **Remediation**

#### **Remediation of a Specific Learning Assignment**

Remediation of learning activities within a course is at the discretion of the faculty. Remediation within a course is a privilege and not a right. Students are allowed to remediate one learning activity within a course to meet the grading policy for the course. The student must make arrangements for remediation within ten (10) business days of receiving a grade for that assignment. The instructor will outline required remediation and work with the student to establish a mutually agreed upon time frame to complete. The minimum passing grade of 73% pre-licensure or 80% post-licensure is the highest possible grade that can be achieved through remediation.

If a student does not comply with the remediation contract, a grade of “U” will be received.

#### **Remediation of a Course**

A student who does not achieve a grade of C (pre-licensure) or B- (post-licensure) or higher in theory or clinical courses will receive a grade of “U”. The College will provide each student with the opportunity to demonstrate competency, however, remediation is a privilege, not a right. Students must have demonstrated the likelihood of success in the remediation process by active participation in the educational program including course attendance and participation, active involvement in clinical experiences, individual initiative, and use of resources. Students who demonstrate the potential for remediation will be placed on academic probation by the Student Performance Committee with a formal remediation contract. The remediation contract will outline the activities required for remediation, the outcomes expected for successful completion, and a date for completion. Copies of the remediation contract, signed by the faculty member and the student, will be filed with the CGN. The student may not enroll in

any other CGN courses until a remediation contract has been approved by the SPC. In an effort to ensure a timely process, the Committee will strive to have a decision within ten business days of receipt of all relevant materials.

Students who receive a grade of U or NCR in a course must submit a formal petition to the SPC requesting to repeat the course and continue in the program. This petition must be received within one week of receipt of the failing grade. This petition should include a discussion of the reasons for course failure as well as the strategies the student has identified to increase the likelihood of successful completion of the course in the future. Upon receipt of the student's petition to continue in the program, the SPC will review the student's petition and either recommend dismissal or a remediation contract will be created, in consultation with the instructor of record for the failed course. Two copies of the contract will be generated and will include all conditions necessary for course repetition and program continuation, with a statement that the student understands the terms of the contract. The student will sign one copy and return it to the College within one week of receipt.

Students are allowed to remediate only two courses in the program. Options for remediation may include, but are not limited to, the following:

- Taking a comprehensive examination on the course content,
- Completing special projects or studies in the area(s) of deficiency,
- Repeating a specific learning objective, and/or
- Repeating the course.

Upon completion of the remediation contract, the instructor will submit a recommendation to the Student Performance Committee and the Dean. A grade of B- is the highest possible grade that can be achieved through remediation.

### **Grade Appeals Process**

A student who believes that a grade for a course does not accurately reflect his/her performance in that course should first submit a written request for a grade appeal to the faculty of record. All grade appeals must be submitted in writing to the faculty member of record within ten (10) business days of when the grade was posted. The written request must specify the specific learning activities to be reconsidered, with the original submissions and supporting documentation. The faculty member of record will either revise the grade or will retain it as originally assigned. If the grade remains unchanged, the student may appeal to the Student Performance Committee (SPC). The SPC will review the course syllabus and student work and either revise the grade, retain it as originally assigned or send the matter forward to the Dean (See SPC section of this handbook for process).

### **Course Drop/Withdrawal**

Students may voluntarily drop a class by obtaining a class drop/withdrawal form from the CGN office, completing the form and returning it to the office. A drop from a class is not recorded on the student's transcript if the effective date is within the first 2 weeks of the semester. A "W" entry is recorded from the 3<sup>rd</sup> week through the 9<sup>th</sup> week when a class is dropped. The final date to drop a class, whether initiated by student or instructor, is Friday of the 9<sup>th</sup> week of the semester. After the 9<sup>th</sup> week, the student receives the grade earned at the end of the semester.

For students enrolling in Pre-licensure courses, students may voluntarily drop a class by obtaining a class drop/withdrawal form from the CGN office, completing the form and returning it to the office. A drop from a class is not recorded on the student's transcript if the effective date is within the first 1/5<sup>th</sup> of the contact hours for the course. A "W" entry is recorded if 1/5<sup>th</sup> to 3/5<sup>th</sup> of contact hours are complete when the class is dropped. The final time to drop a class, whether initiated by the student or the instructor, is once 3/5<sup>th</sup> of the contact hours are completed. After the 3/5<sup>th</sup> point has passed, the student receives the grade earned at the end of the course.

### **Leave of Absence**

Students who find that they are unable to continue in the program due to personal or medical reasons may apply for a Leave of Absence. A Leave of Absence may only be granted to a student in good academic standing. The request for a Leave of Absence must be submitted in writing and approved by the Dean. The student will need to obtain the endorsement of at least one instructor on the Leave of Absence form that the student has the potential for program completion. Leaves are granted for personal and medical reasons only. Leaves for academic reasons will be recorded as an Academic Suspension and can only be granted by the Dean in conjunction with the Student Performance Committee. Leaves may be granted for one academic year and may be extended for one additional year if the student seeks approval from the Dean at least three months prior to the start of the subsequent academic year. Students pursuing clinical tracks taking a leave of absence may be subject to clinical skills evaluation prior to

returning to the clinical setting. See the **University Leave of Absence Policy** in the Overview section of the catalog for more information.

### **Academic Suspension**

Students who have dropped below a 3.0 or who have failed a course may be placed on academic suspension by the Dean or Student Performance Committee as an alternative to withdrawal from the program. MSN-E students who do not pass the NCLEX exam and are unable to begin work as an RN by the end of their fifth semester may also be placed on academic suspension. Students pursuing clinical tracks who are placed on academic suspension may be subject to clinical skills evaluation prior to returning to the clinical setting (see SPC section of this catalog for process). See the **University Academic Suspension Policy** in the Overview section of the catalog for more information.

### **Program Withdrawal**

After considering all the options, if it is the student's intent to withdraw from the CGN, the student must complete all necessary university documents. At the time of withdrawal, the student will be required to surrender their Western University ID badge. Any student who withdraws from the program must contact the Financial Aid Office, Bursar's Office and the Library to discuss any issues related to tuition and fees. (See SPC section of this catalog for process). See the **University Withdrawal** policy in the Overview section of the Catalog for more information.

### **Dismissal**

All information related to academic dismissal from the programs of the College of Graduate Nursing will be reviewed by the Student Performance Committee. Dismissal decisions are presented in writing to the Dean by the college Student Performance Committee. The Dean has the authority to accept or reject the decision.

Dismissal criteria include:

- a. Failure to meet required minimum grade for a course(s) within the program.
- b. A pattern of "Incompletes" in courses resulting in failure to complete the program in a timely manner.
- c. Failure to meet the professional expectations of the University as outlined in the University Policies and Procedures section of the University Catalog.
- d. Failure to complete all aspects of remediation as specified in the remediation contract for specific course(s).
- e. Failure to meet standards for professional conduct as stated in the University catalog, and any breach of professional behavior in the clinical setting which could jeopardize patient care or relationships at clinical agencies used for training.

Any student who is dismissed from the program must contact the Financial Aid Office and the Bursar's Office to discuss any issues related to tuition and fees. Any dismissed student must immediately return his/her student ID badge to the Vice President for Enrollment Management and University Student Affairs. (See SPC section of this catalog for process). See the **University Dismissal** policy in the Overview section of this catalog for more information.

### **Program Completion**

Unless the President of the University has granted special permission, all students must attend and participate in the Commencement program. If the President grants special permission to be excused from the Commencement ceremony, the graduate may be required to present himself or herself to the Chief Academic Officer or appropriate Dean at another time to receive his or her diploma.

#### **Pre-Licensure:**

Students who have met the following requirements will be considered for continuation into the post-licensure portion of the MSN-E program:

- Students must have a minimum cumulative GPA of 3.0 for first four semesters of the program.
- Students will have one semester (semester 5) in which to pass the NCLEX exam in order to progress in the post-licensure curriculum.

#### **RN Work Experience:**

Students entering into the FNP track must complete 2,080 hours (1 year) RN work experience prior to entry into the FNP Certificate courses. RN hours must be within the acute care setting unless otherwise approved by the director of the program.

#### **Post-Licensure MSN/FNP, Post Masters FNP:**

Students who have met the following requirements will be considered candidates for the degree of Master of Science in Nursing and/or Family Nurse Practitioner Certificate:

- Completion of all course requirements with a minimum overall GPA of 3.0.
- Completion of 675 FNP clinical practice hours for students pursuing the FNP Certificate. Students must satisfactorily demonstrate all clinical competencies.
- Compliance with all the legal and financial requirements of the University as stated in the University Catalog.
- Demonstrated no serious deficiencies in ethical, professional or personal conduct as outlined in the universities Standards of Professional Conduct.

**Post-Licensure MSN/CNL, MSN/LM, MSN/AMB:**

Students who have met the following requirements will be considered candidates for the degree of Master of Science in Nursing:

- Completion of all course requirements with a minimum overall GPA of 3.0.
- Compliance with all the legal and financial requirements of the University as stated in the University Catalog.
- Demonstrated no serious deficiencies in ethical, professional or personal conduct as outlined in the universities Standards of Professional Conduct.

**DNP:**

Students who have met the following requirements will be considered candidates for the degree of Doctor of Nursing Practice:

- Completion of all course requirements with a minimum overall GPA of 3.0.
- Completion of a minimum of 1000 supervised graduate level clinical practice hours. Students must satisfactorily demonstrate all program competencies.
- Satisfactory completion and defense of the Clinical Dissertation.
- Compliance with all the legal and financial requirements of the University as stated in the University Catalog.
- Demonstrated no serious deficiencies in ethical, professional or personal conduct as outlined in the universities Standards of Professional Conduct.

**Academic Integrity and Professional Ethics**

Honesty and ethical standards are dimensions of integrity. The CGN faculty and administration believe that professional integrity begins with the student nurse and the nurse as student. Academic integrity is essential to scientific knowledge and competent skill acquisition required for successful completion of all CGN programs and safe patient care. Integrity is support by three domains of the American Nurses Association Code of Ethics for Nurses. These are:

- The nurse owes the same duties to self as to others, including the responsibility to preserve integrity and safety, to maintain competence, and to continue personal and professional growth.
- The nurse participates in the advancement of the profession through contributions to practice, education, administration, and knowledge development.
- The profession of nursing, as represented by associations and their members, is responsible for articulating nursing values, for maintaining the integrity of the profession and its practice, and for shaping social policy.

American Nurses Association (2001) *Code of Ethics for Nurses with Interpretive Statements*, Silver Spring, MD: American Nurses Publishing.

Therefore, the CGN does not tolerate cheating, plagiarism and fabrication. Students charged with a violation will be entered into a discipline process. The following definitions of cheating, plagiarism and fabrication are presented as examples and are not inclusive.

Cheating is defined as: "intentionally using or attempting to use unauthorized materials, information or study aids in any academic exercise. Examples of cheating include:

1. Unauthorized use of notes, text, or other aids during an examination.

2. Copying from another student's examination, research paper, case write-up, lab report, course assignment, computer disc, etc.
3. Talking during an examination.
4. Handing in the same paper for more than one course without the explicit permission of the instructor.
5. Perusing a test or faculty notes/handouts before it is given.
6. Collaboration on a test, quiz, assignment, or project with others without course faculty authorization
7. Using unauthorized materials to complete an exam or assignment.
8. Using a communication device such as a cell phone, page, PDA, or electronic translator to obtain unauthorized information during an exam
9. Using online resources such as Web sites or e-mail while completing an online exam without the permission of the course faculty
10. Copying computer files from another person and representing the work as you own
11. Taking an exam for another student or permitting someone else to take a test for you
12. Allowing others to do research or writing of an assignment (including application), e.g., using the services of a commercial term paper company, using the services of another person (family member, tutor, etc) inappropriately, without acknowledgement.
13. Sharing a take-home examination, course assignment, case write-up, lab report, etc., with another without expressed permission from the faculty.”

(Brady, 2005; *Office of Student Conduct and Conflict Resolution, Northeastern University, 2006*).

### **Plagiarism**

The University does not tolerate plagiarism in any form. Plagiarism involves the use of another's work without properly giving credit for that work. This includes not properly citing information from another person's work when stating facts or statistics or when paraphrasing. Plagiarism is grounds for dismissal from the College. To assure that students understand CGN's policy on academic honesty, students are required to sign this policy during orientation. Plagiarism is defined as:

“Presenting as one's own work the work of another person (for example, the words, ideas, information, data, evidence, organizing principles, or style of presentation of someone else) is plagiarism. Plagiarism includes paraphrasing or summarizing without acknowledgment, submission of another student's work as one's own, the purchase of prepared research or completed papers or projects, and the unacknowledged use of research sources gathered by someone else. Failure to indicate accurately the extent and precise nature of one's reliance on other sources is also a form of plagiarism. The student is responsible for understanding the legitimate use of sources, the appropriate ways of acknowledging academic, scholarly, or creative indebtedness, and the consequences for violating University regulations. Examples of plagiarism include:

1. Failure to acknowledge the source(s) of even a few phrases, sentences, or paragraph
2. Quotation or paraphrase of paragraph-length sections of a paper
3. Failure to acknowledge the source(s) of a major idea or the source(s) for an ordering principle central to the paper's or project's structure
4. Failure to acknowledge the source (quoted, paraphrased, or summarized) of major sections or passages in the paper or project.
5. The unacknowledged use of several major ideas or extensive reliance on another person's data, evidence, or critical method.
6. Submitting as one's own work, work borrowed, stolen, or purchased from someone else.”

(State University of New York, Albany, 2007)

Fabrication is defined as: “Intentional and unauthorized falsification, misrepresentation, or invention of any information, data, or citation in an academic exercise. Examples of fabrication include:

1. Making up the data for a research paper.
2. Altering the results of an experiment or survey.
3. Listing a citation for a source not used.
4. Stating an opinion as a scientifically proven fact.”
5. Falsely recording attendance at clinical and/or completion of required clinical hours.

(Northeastern University, 2006).

### **Policy for Students Suspected of Drug, Substance or Alcohol Abuse/Dependency**

Drug, substance, and alcohol abuse and dependency are prevalent in American society, including nursing students. Nursing students who are impaired or abusing drugs, substances, or alcohol pose a risk for themselves, their peers, patients under their care, and others. Drug, substance, and alcohol abuse and dependency have been determined to be treatable illnesses. Nursing faculty, preceptors, institutional staff, and fellow students have an obligation to act when drug, substance, or alcohol abuse or dependency is suspected as required by the California Board of Registered Nursing and outlined in this policy and procedure.

The College of Graduate Nursing adheres to zero tolerance regarding drug, substance, and alcohol abuse and dependence.

1. Students may not have in their possession for their use at any time on campus or at sites where they are completing clinical hours any medications which have not been prescribed for them, illegal drugs, substances, or alcohol.
2. Students may not be under the influence of any illegal drugs, substances, or alcohol at any time on campus or at sites where they are completing clinical hours.
3. Students may not be under the influence of prescribed medications that impair the student's ability to learn or safely perform nursing care at any time on campus or at sites where they are completing clinical hours.
4. Consistent with the University's Drug Free Schools and Campus policy, nursing students may not be involved in or associated with the illegal possession, distribution, purchase, sale, or diversion of drugs, substances, or alcohol.

### **Procedure**

If students are suspected of any of the above, through direct observation or report, nursing faculty are obligated to take the following action.

1. If a student exhibits or has been reported to exhibit behaviors where impairment, or drug, substance, or alcohol abuse or dependency is suspected, the student will be immediately referred for testing which may include a blood alcohol level, urine toxicity screen, or other test as appropriate, at the most convenient facility as determined by faculty.
2. Refusal of immediate testing may result in dismissal from the College.
3. If testing results in the discovery of illegal drugs, substances, and/or alcohol the student will be placed on summary suspension and will not be allowed to continue in the program, effective immediately. A written contract will be developed which will specifically outline a timeline and all conditions the student must complete before the student is considered for reinstatement in the program. For RN students the contract will be written in accordance with Board of Registered Nursing (BRN) policy. The contract may include the following:
  - a. Referral to the student's medical provider.
  - b. Referral to University counseling resources.
  - c. Referral for treatment through the Substance Abuse Treatment Facility Locator ([http://findtreatment.samhsa.gov/ufds/detailedsearch\\_more](http://findtreatment.samhsa.gov/ufds/detailedsearch_more)).
  - d. Required psychological or rehabilitative counseling.
  - e. Episodic body fluid screening for drugs, substances, or alcohol.
  - f. Other conditions.
4. All costs incurred by testing and/or being placed on a contract are the responsibility of the student.
5. Violation of the terms of a contract may result in permanent dismissal from the program.
6. If a student has fulfilled the contract and wishes to re-enter the program the student must petition the Student Performance (SPC) Committee for re-entry and provide documentation that all of the conditions of the contract have been fulfilled, and any other relevant documentation per SPC policy.
7. The SPC Committee may allow the student to re-enter the program if and when space permits, or may deny the petition.
8. If the petition is denied the student will be permanently dismissed from the program.

### **Guidelines Governing Re-entry of Students after Contract Fulfillment**

Students allowed to re-enter the program will receive a written contract which specifically outlines expectations for student behavior and required conditions for continuation in the program. For RN students the contract will be written in accordance with Board of Registered Nursing (BRN) policy. The contract will be kept by the Dean. The contract may include the following:

- a. Notification of all nursing faculty involved with the student of the need for the contract and conditions of the contract.
- b. Behavioral expectations.
- c. Restricted participation in clinical.
- d. Restricted or supervised access to medications and/or controlled substances in the clinical setting.

### **Student Performance Committee**

The Student Performance Committee (SPC) is composed of the Chair, a minimum of four faculty members representing the CGN diverse programs, and one CGN staff member as an ex-officio member for record keeping. The Chair and two of the faculty members shall have a minimum of three full-time years graduate level teaching experience and the other faculty members shall have a minimum of one full-time year graduate level teaching experience. Members are approved by the CGN faculty. The responsibilities of the Committee include, but are not limited to:

1. Student performance and progression review for determination of student academic probationary status.
2. Student professional conduct review, including but not limited to alleged dishonesty, plagiarism, cheating, and/or other forms of misconduct.
3. Consultation for the development of academic performance and professional conduct policies.
4. Review of grade appeals.
5. Review of course remediation due to failure or the inability to complete course requirements.
6. Review of application for readmission to the College.
7. Review of other academic disputes or grievances.

When a matter is referred to the committee and the committee has received all relevant documentation the committee will notify the student that all documentation has been submitted and the review process has begun. A review will be completed within 10 business days. The procedure for Committee review is as follows:

1. To initiate a review, a petition requesting the review is forwarded to the Chair from the faculty of record including a detailed description of the course failure or incident to be reviewed.
2. Once the request has been forwarded to the Committee the student will be requested to submit a response (petition).
3. The Committee may perform additional fact finding which may include requesting additional documentation from the faculty of record, student, or other persons with knowledge of the incident.
4. If a Committee decision involves the potential academic dismissal of a student, the student has the right to meet with the Committee for the purpose of discussion and clarification prior to the Committee vote. The student will be notified of the SPC meeting date and time
5. All recommendations of the Student Performance Committee shall be made in writing to the Dean of the College of Graduate Nursing, who will make a final decision and inform the student in writing within 5 business days.

SPC decisions are the result of a majority vote. A Committee Member who is the advisor or instructor of record for a student whose progress is being evaluated by the Committee may recuse them self from voting. If a quorum cannot be established for the purpose of a vote the Dean may appoint a temporary member from the CGN faculty to establish a quorum for that vote. The Chair will be responsible for communicating all committee recommendations to the Dean. Recommendations of the committee and/or action of the Dean may include, but are not limited to:

1. Clearance from alleged violation
2. Remediation
3. Requirement of psychological and/or educational assessment and intervention with documentation that student is able to meet all CGN program requirements
4. Requirement of physical examination and/or diagnostic evaluation by a physician or nurse practitioner with documentation that student is able to meet all CGN program requirements

5. Academic and/or Conduct probation
6. Academic and/or Conduct suspension
7. Dismissal

## **GENERAL COLLEGE CLINICAL POLICIES**

### **Clinical Guides**

In addition to the information contained in this catalog, each student enrolled in a clinical program in the College of Graduate Nursing will receive a clinical handbook specific to that program. Students will be responsible for having knowledge of and following all clinical policies contained in the clinical handbook for their program of study.

### **Professional Appearance and Dress Code**

All students of the College of Graduate Nursing are expected to maintain a professional appearance. Professional appearance relates to clothing, hair, nails, shoes, carriage and communication. Students' appearance should not risk offending or disturbing clients. Students must recognize that nursing is a service-oriented profession.

While on-campus, students must follow the Western University Dress Code. In clinical agencies, students are active learners and are, in essence, guests in these agencies. Recognition of this status means that students must adhere to all agency policies and guidelines including acceptable attire and behavior.

#### **Pre-licensure**

Unless otherwise instructed, the uniform requirements are as follows:

- A laboratory coat is required and must be worn, with the Western University of Health Sciences name tag, when in the hospital other than for clinical labs, for example, when selecting patients, going to medical records, or reviewing charts. Appropriate and professional attire is always required. Casual attire such as shorts, jeans, open-toed shoes, short tops showing midriff, etc., are never permissible in the clinical setting. This is in accordance with contractual agreements with clinical agencies for individuals when in the agency in a professional student role.
- The student will wear a uniform of burgundy pants and a burgundy tunic style top. An identifying patch will be sewn on the left sleeve. Names tags must be worn at all times. Undergarments should not be visible through the uniform. A short white lab coat may be worn over uniforms for added warmth while working with clients. If needed, white clothing may be worn under uniforms for warmth. Name tags can be purchased at the University Bookstore.
- The professional looking student uniform is clean and pressed and reflects frequent laundering.
- Clean, white or black, rubber-soled, enclosed heel and toe shoes with clean, white or black shoelaces are required. They should be designated for clinical use only. Strapless/backless shoes are unacceptable.
- Hosiery must be worn and match the uniform or shoes.
- Hair should be worn away from the face, collar, and neck. It should be confined appropriately if long or full in style. Hairstyles should reflect professional comportment, i.e., no extreme styling, no excessive hair ornaments. Hair coloring should remain in the realm of what can be genetically transmitted.
- No fragrances should be worn in clinical settings. Because of the close and physical nature of direct care nursing, students are expected to be clean and odor free. If an offensive odor is noticed by faculty, staff, clients or peers, the student will be asked to take corrective action.
- Jewelry is limited to a watch, one plain ring, and one pair of plain, inconspicuous earrings if ears are pierced. There should be no other visible jewelry. Any piercing other than earrings (i.e. nose, eyebrow, lip, tongue, etc.) should be removed when in the clinical setting.
- Tattoos should be covered with clothing, if possible.
- Nails should be appropriately groomed and any nail polish should be clear or a pale color. False fingernails, tips and acrylic nail covers harbor a wide variety bacteria and fungi and by law are not permitted in hospital settings.
- Some specialty areas may require uniform adaptations. Unless specifically instructed to do otherwise, the complete uniform, i.e., shirts, pants, shoes, and name badges will be worn in all clinical areas.
- It is advisable that all students own at least one pair of dress slacks that are appropriate for wearing in the community setting.
- Although gum chewing is not appropriate in clinical situations, breath mints may be advisable.

The College of Graduate Nursing must comply with the policies of various hospitals, clinics, and other agencies where clinical practice is scheduled. Students should be aware that additional dress restrictions and infection control policies might be required in specific departments of agencies or hospitals. Any other concerns will be addressed through your clinical instructor who has the final decision on dress code implementation. If unprofessional attire is reported in clinical agencies, clinical grades may be lowered, or preclinical access to patient records may be restricted; additionally, the student may be placed on probation for unprofessional behavior.

#### **Clinical Rotations Policy – Pre-Licensure**

Students achieve many of the course requirements through practical experience in many different health care agencies. Clinical rotations may fall on any day of the week although weekend rotations are kept to a minimum. Student access to facilities is regulated by contracts between the University and the agency. Students who do not meet an agency's requirements will be denied access to that facility. The student is not considered an employee of the agencies involved, and has no claim for any employee benefits such as sick leave, vacation pay, social security, retirement benefits, worker's compensation or unemployment benefits. **Students cannot make their own clinical agency arrangements as University and agency legal contracts are required.**

#### **Clinical/Practical Training for ADN to MSN Students: Baccalaureate Essentials Bridge Courses**

During the first two semesters, the student will complete a minimum of one semester clinical unit (45 hours) for the CGN 6804 Leadership and Management Course and two semester clinical units (90 hours) for the CGN 6904 Community Health Nursing Clinical Practicum. Working with their faculty advisor and a CGN-approved preceptor(s), the student will complete learning activities that demonstrate integration of the semester objectives and advance clinical competencies relating to leadership, management, and community health nursing.

#### **Clinical/Practical Training for Leadership and Management Students:**

In the second year of the curriculum, the student will complete a minimum of 45 hours per semester for a total of 135 clinical hours. Working with their faculty advisory and a CGN-approved preceptor(s), the student will complete learning activities that demonstrate integration of the semester objectives and advance the competencies of a nurse leader/manager.

#### **Clinical Training for Clinical Nurse Leader Students:**

An introductory (1 unit, 45 hours) course will occur in the third semester of the two-year program to introduce the CNL student to the outcome competencies for the clinical nurse leader role. Preceptor, clinical agency, and unit will be identified in this semester to prepare the student for the CNL clinical experience. Beginning in the Fall of year two, the student will begin the immersion experience for a total of nine clinical units (405 hours) to operationalize the CNL role. The total clinical units/hours for the CNL emphasis are ten units (450 hours).

#### **Clinical Training for FNP students**

Clinical training begins after the student has: (1) completed the Advanced Physical Assessment course, (2) successfully completed the Advanced Physical Assessment competency based physical assessment testing, and (3) complied with all the University health, safety and immunization documentation requirements.

#### **Preceptors**

A student's primary preceptor may be a physician trained in family practice or internal medicine, preferably board certified, or a master's degree prepared, certified FNP working in primary care. Additionally, Certified Nurse Midwives are acceptable preceptors for prenatal and gynecology rotations. The College encourages multiple rotations for specific experience if needed to optimize student learning. A student's primary preceptor and/or clinical instructor may suggest or assist with identifying and scheduling these rotations. If the preceptor is a physician, the student should also work with a nurse practitioner to promote role development. Due to the distance delivery of the program, students are encouraged to identify qualified preceptors in their community prior to starting the program. If students do not have a preceptor the Clinical Administrator will assist students with securing a qualified preceptor.

Preceptors working within specific guidelines established by the program will be responsible for assuring appropriate and adequate learning experiences, as well as supervising students for safe practice. Preceptors and clinical sites must be approved by the faculty and Western University of Health Sciences. A *Preceptor Guide* will be provided to all preceptors.

As expected with professional practice, all data gathered about a patient and his/her health/illness, including all items within the medical record, are privileged information. Client confidentiality must be maintained.

Students must consult with their preceptors on all patients seen by the student. The supervising practitioner must review and countersign all student notes written in the medical record. Students are not allowed to prescribe medications or sign any prescription order.

Students are required to wear student identification and lab coats at all times while in the clinical setting. Western University maintains malpractice and accident insurance coverage for enrolled students. Professional nursing malpractice insurance (in the student role) is recommended but not required.

#### Scheduling

The College encourages students to schedule the same clinical day(s) each week to provide consistency for the agency and patient follow-up. Additional days should be scheduled to accommodate for illness, employment, or family responsibilities.

#### Clinical Hours

Eight to twelve hours per week of clinical training are required of full-time students throughout a two year course of study to complete 675 hours or twelve to twenty four hours per week for a one year course of study. Following successful completion of the Physical Assessment course, full-time students are expected to complete 1-5 units of clinical training each semester. Forty-five hours must be completed for each unit, for a total of 15 units. A student, by special arrangement with a faculty advisor, may complete a minimum of 90 clinical hours per semester (2 units) and complete the remaining hours in subsequent semesters or at the end of the program. This arrangement would require a student to enroll for extra semesters to complete the required clinical hours. Administrative and clinical fees will be charged for the additional semester(s). Students who fail to meet the 90 hours minimum for two consecutive semesters will be placed on academic probation and are at risk for dismissal.

#### Clinical Progression

Student productivity is expected to increase with each semester's experience. Initially, students may see approximately 4-6 patients per day. The student is expected to gather complete subjective and objective data on each patient, even though early in the program the student may not be able to fully assess the problem or develop a complete treatment plan. Later in the program, students will be expected to see approximately 4-8 patients per day and provide comprehensive care including assessment and plan of treatment. Students will be guided to transition from novice to advanced clinician as they progress in the clinical practicum.

It is recommended that FNP students see approximately 810 patients during their program. The goal for patient mix is: Pediatrics 15%, Adults 40%, Geriatrics 20%, GYN 15%, and OB 10%.

Students are encouraged to obtain other rotations to complete clinical objectives if they are not in a family practice setting. In addition, students are advised to find Urgent Care and Emergency Room rotations for short rotations for skills and procedures experience. The clinical faculty of record will review students' clinical logs every two weeks in each semester. In addition, Preceptor Evaluations are documented each semester.

#### Record Keeping and Clinical Hours

The College of Graduate Nursing uses an electronic system to record clinical hours. Students will record each patient visit into the clinical log using de-identified data to ensure HIPAA compliance. Students will receive an orientation to the use of the electronic system. Clinical hours will be evaluated biweekly, and at other times, if requested by the faculty. In addition, students are required to submit other documentation (i.e. Preceptor Evaluation, Student Evaluation of the Preceptor, Student Objectives) at the end of the semester. Failure to do so may result in an incomplete grade and/or failure to progress in the curriculum.

#### Clinical Site Visits:

Faculty and contracted NP site visitor evaluations of a clinical site are a major key to the success of this program. Student clinical competency will be evaluated at this time by direct observation of the student's performance and interaction with patients, preceptors, and staff. In addition, the clinical faculty provides guidance and support as well as assistance with clinical decision making. Chart documentation of patient care is also reviewed and assessed. Students who receive an unsatisfactory site visit evaluation must complete a remediation process. Note: Students who live a great distance from the campus may be required to perform clinical competency evaluation, as needed, at a Western University faculty member's clinic setting or at a Western University clinical training site. Efforts will be made to have these evaluations coincide with seminar weekends to minimize travel costs.

### **Waiver of Clinical Hours - FNP**

The faculty believes in granting credit for previous, appropriate professional experience. Students who are licensed NPs in a specialty area may submit a written request for a waiver of the required clinical hours. It is the view of the faculty that to complete such a broad specialty area such as the family nurse practitioner, more clinical hours are required than the national or state minimum of 350-540 hours. Currently, students in the Family Nurse Practitioner program are required to complete 675 clinical hours.

Students who petition to receive credit for previous clinical education for their nurse practitioner specialty must provide an official transcript that documents clinical hours. If hours are not listed on the transcript, a letter from the Dean or Director of the NP program is required to verify clinical hours completed in the program. Certified or licensed Nurse Practitioners who did not complete a formal nurse practitioner education program from an accredited institution of higher education must submit a written request, as well as a portfolio, which verifies clinical competence in his or her specialty to the Program Director. The portfolio could include: national certification; letters from collaborating or supervising physicians, advanced practice nurses, or faculty; CEU; clinical evaluations completed by Western University faculty; and/or clinical coursework. The student's request and documentation will be forwarded to the Student Performance Committee for consideration. Students will be notified in writing of the Committee's decision. Students will not be exempt from tuition fees if hours are granted.

### **Clinical Training for DNP students**

Clinical assignments begin in the second semester of the program after the student has completed CGN 8010 and 8050, and after the student has complied with all University health, safety and immunization documentation requirements.

#### **Mentors**

Clinical assignments are integrated into six of the program courses. In addition the last course, CGN 8090 Clinical Project, serves as a clinical immersion experience. During clinical courses the course faculty will serve as the coordinator for the clinical work of the course. During the completion of the clinical project the student's clinical dissertation committee will serve as consultants for the student. For CGN 8030, 8040 and 8080 each student will have a clinical mentor at each agency in which they complete clinical assignments. As a clinically-based program, it is expected that students complete all clinical assignments within each course and the clinical dissertation.

For CGN 8020, 8060, and 8070 clinical assignments will be completed without a clinical mentor but each student is encouraged to identify a clinical resource person who will serve as a liaison and support person for the student for clinical assignments. The clinical resource person could be an advanced practice nurse from the agency, an interprofessional colleague, or a manager or leader from the agency. The College encourages multiple sites for specific experiences if needed to optimize student learning. A student's clinical mentor and/or clinical resource person may suggest or assist with identifying and coordinating these experiences. Due to the distance delivery of the program, students are encouraged to identify qualified clinical resource persons in their community prior to starting the program. If students have not been able to identify clinical mentors or resource persons course faculty will assist students with securing a qualified clinical mentors or resource persons.

As expected with professional practice, all data gathered about an agency or individual patient and his/her health/illness, including all items within the medical record, are privileged information. Agency and client confidentiality must be maintained.

Students are encouraged to wear student identification and lab coats when appropriate while in the clinical setting. Western University maintains malpractice and accident insurance coverage for enrolled students. Professional nursing malpractice insurance (in the student role) is recommended but not required.

#### **Notification of Clinical Work**

The College encourages students to notify the clinical site and clinical mentor or resource person of all times the student will be at the clinical site.

#### **Clinical Hours**

The DNP program is a completion program for MSN prepared nurses and takes into account previous clinical experiences; therefore, clinical hours will be adjusted accordingly, to meet the needs of the AACN requirement of 1000 clinical hours. The minimum numbers of hours for clinical work and clinical assignments per course will be described in the course syllabi. If students need more than two semesters to complete the Clinical Project administrative and clinical fees will be charged for the additional semester(s).

#### Record Keeping and Clinical Logs

Students will maintain and document the hours and the assignments they have completed during their clinical experiences for their course faculty and in their clinical logs using de-identified data to ensure HIPAA compliance. Students will receive an orientation on how to record clinical logs prior to any clinical assignments. Electronic documentation of clinical hours and work will be submitted at the completion of the course in which the clinical experience was completed. In addition, students may be required to submit other documentation at the end of the semester. Failure to do so may result in an incomplete grade and/or failure to progress in the curriculum.

#### **Student Injuries and illnesses in the Clinical Setting:**

If a student is injured or is exposed to potentially infectious (includes blood borne pathogens) or hazardous substances during a clinical rotation the student is required to notify the clinical instructor immediately and seek assessment and/or treatment per facility policy. Follow-up care should be continued at the contracted clinical facility as needed and ordered by the evaluating health care professional. Expenses incurred are to be submitted to the university, for the reported incident only.

The Incident Report Form can be found in the Clinical Handbook and must be completed by the student and the faculty and submitted to CGN. The Risk Management Office at the University must be notified as soon as possible at (909) 469-5254.

## CURRICULUM PLANS

### College of Graduate Nursing

#### MSN-E Track (Pre-licensure RN Preparation Curriculum)

Program	Bachelor's Degree from accredited college			
Pre-requisites	3.0 GPA			
	<u>Units</u>	<u>Clinical</u>	<u>Total</u>	<u>Courses</u>
Pre-requisite	6			Communications/English Composition
Courses	3			Statistics
	3			Social Sciences
	3			Psychology
	4			Human Anatomy (with lab)(a minimum of 5 units if combined with Physiology)
	4			Human Physiology ( with lab)(a minimum of 5 units if combined with Anatomy)
	4			Microbiology (with lab)
	3			Basic Nutrition
Total	30	0	<b>30</b>	
<b>First Year</b>	<u>Units</u>	<u>Clinical</u>	<u>Total</u>	<u>Courses</u>
Semester 1		1*		IPE 5000 – Interprofessional Education*
Fall	2			CGN 5010 - Intro to Nursing Theory
	4			CGN 6110 - Pathophysiology
	3			CGN 6201 - Health Assessment
		1		CGN 6202 - Health Assessment (clinical)
	1			CGN 6301 - Professional Nursing Role
	3			CGN 6410 - Nursing Fundamentals (theory)
		2		CGN 6411 - Nursing Fundamentals (clinical)
Total	13	4	<b>17</b>	
Semester 2		1*		IPE 5100 – Interprofessional Education*
Spring	3			CGN 6140 - Pharmacology
	4			CGN 6501 - Nursing of Adults and Older Adults I (theory)
		4		CGN 6502 - Nursing of Adults and Older Adults I (clinical)
	2			CGN 6601 - Mental Health Nursing (theory)
		2		CGN 6602 - Mental Health Nursing (clinical)
Total	9	7	<b>16</b>	
Semester 3	4			CGN 6551 - Nursing of Adults and Older Adults II (theory)
Summer		4		CGN 6552 - Nursing of Adults and Older Adults II (clinical)
	2			CGN 6710 - Obstetric Nursing (theory)
		2		CGN 6711 - Obstetric Nursing (clinical)
	2			CGN 6720 - Pediatric Nursing (theory)
		2		CGN 6721 - Pediatric Nursing (clinical)
Total	8	8	<b>16</b>	
Semester 4		1*		IPE 6000 – Interprofessional Education* ( <i>if available</i> )
	2			CGN 6160 - Introduction to Research
	2			CGN 6801 - Leadership and Management in Nursing (theory)
		3		CGN 6802 - Leadership and Management in Nursing (clinical)
Fall	2			CGN 6901 - Community Health Nursing (theory)
		2		CGN 6902 - Community Health Nursing (clinical)
Total	6	6	<b>12</b>	
<b>Pre-licensure Totals</b>	<b>36</b>	<b>25</b>	<b>61</b>	

\*Tuition for this course is a part of the Spring Semester Clinical education fee.

**College of Graduate Nursing**  
**MSN-E Track – Leadership and Management Emphasis**

<b>YEAR 2</b>		<b>YEAR 3</b>	
<b>SEMESTER 4 Fall</b>		<b>SEMESTER 7 Fall</b>	
<i>CGN 6901 Community Health Nursing (theory)</i>	2	CGN 5103 – Adv. Health Systems	3
<i>CGN 6902 – Community Health Nursing (clinical)</i>	2	CGN 5200 – Nursing Theory	3
<i>CGN 6160 – Introduction to Research</i>	2	CGN 5304 - Nursing Research I	3
<i>CGN 6801 – Leadership and Management in Nursing</i>	2	*CGN 7540 – Practicum/Seminar	1
<i>CGN 6802 – Leadership and Management in Nursing Practicum</i>	3	Total	<b>10</b>
Total	<b>11</b>		
<b>SEMESTER 5 Spring</b>		<b>SEMESTER 8 Spring</b>	
CGN 5702 – Management Principles & Leadership Theories	3	CGN 5305 – Nursing Research II	1
CGN 5703 – Introductory Nursing Informatics	3	CGN 5704 – Accounting and Finance	3
*CGN 7550 – RN Clinical Seminar	1	*CGN 7541 – Practicum	1
Total	<b>7</b>	Total	<b>5</b>
<b>SEMESTER 6 Summer</b>		<b>SEMESTER 9 Summer</b>	
CGN 5306 – Biostatistics and Epidemiology	3	CGN 5610 –Professional Role	3
CGN 5705 – Strategy and Analysis of Organizational Process	3	CGN 5999 – Masters Project	3
Total	<b>6</b>	*CGN 7541 – Practicum	1
		Total	<b>7</b>
<b>Total Year 2 Units</b>	<b>24</b>	<b>Total Year 3 Units</b>	<b>22</b>
<b>Total Program Units</b>			
<b>Prerequisite Courses</b>	<b>30</b>	*Courses not charged tuition but subject to clinical fee	
<b>Pre-Licensure Didactic</b>	<b>36</b>		
<b>Pre-Licensure Clinical</b>	<b>24-26</b>		
<b>Post-Licensure RN Clinical*</b>	<b>1</b>	<i>Italics indicate pre-licensure courses.</i>	
<b>Post-Licensure Clinical*</b>	<b>3</b>		
<b>Post-Licensure MSN</b>	<b>31</b>		

**College of Graduate Nursing**  
**MSN-E Track – Clinical Nurse Leader Emphasis**

**YEAR 2**

**SEMESTER 4 Fall**

<i>CGN 6901 – Comm. Health Nursing (theory)</i>	2
<i>CGN 6902 – Comm. Health Nursing (clinical)</i>	2
<i>CGN 6160 – Introduction to Research</i>	2
<i>CGN 6801 – Lead. &amp; Mgnmt in Nursing</i>	2
<i>CGN 6802 – Lead. &amp; Mgmt in Nursing Pract</i>	3
Total	<b>11</b>

**YEAR 3**

**SEMESTER 7 Fall**

<i>CGN 5103 – Adv. Health Systems</i>	3
<i>CGN 5200 – Nursing Theory</i>	3
<i>CGN 5304 – Nursing Research I</i>	3
* <i>CGN 7561 – CNL Clinical Experience</i>	3
Total	<b>12</b>

**SEMESTER 5 Spring**

<i>CGN 5702 – Management Principles &amp; Leadership Theories</i>	3
<i>CGN 5703 – Introductory Nursing Informatics</i>	3
* <i>CGN 7550 - RN Clinical Seminar</i>	1
Total	<b>7</b>

**SEMESTER 8 Spring**

<i>CGN 5305 – Nursing Research II</i>	1
<i>CGN 5505 – Pharmacotherapeutics and Technology</i>	3
<i>CGN 5620 – Advanced Health &amp; Pop. Assess.</i>	3
* <i>CGN 7561 – CNL Clinical Experience</i>	3
Total	<b>10</b>

**SEMESTER 6 Summer**

<i>CGN 5306 – Biostatistics &amp; Epidemiology</i>	3
<i>CGN 5705 – Strategy &amp; Analysis of Organizational Process</i>	3
* <i>CGN 7560 - CNL Clinical Experience/Seminar</i>	1
Total	<b>7</b>

**SEMESTER 9 Summer**

<i>CGN 5610 – Professional Role</i>	3
<i>CGN 5999 – Masters Project</i>	3
* <i>CGN 7561 - CNL Clinical Experience</i>	3
Total	<b>9</b>

<b>Total Year 2 Units</b>	<b>25</b>	<b>Total Year 3 Units</b>	<b>31</b>
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Total Program Units

<b>Prerequisites Courses</b>	<b>30</b>
<b>Pre-Licensure Didactic</b>	<b>36</b>
<b>Pre-Licensure Clinical</b>	<b>24-26</b>
<b>Post-Licensure RN Clinical*</b>	<b>1</b>
<b>Post-Licensure Clinical*</b>	<b>10</b>
<b>Post-Licensure Didactic</b>	<b>34</b>

\*Courses not charged tuition but subject to clinical fee

*Italics indicate pre-licensure courses.*

**College of Graduate Nursing**  
**MSN-E Track – AMB Emphasis**

<b>YEAR 2</b>		<b>YEAR 3</b>	
<b>SEMESTER 4 Fall</b>		<b>SEMESTER 7 Fall</b>	
<i>CGN 6901 – Comm. Health Nursing (theory)</i>	2	CGN 5200 – Nursing Theory	3
<i>CGN 6902 – Comm. Health Nursing (clinical)</i>	2	CGN 5304 – Nursing Research I	3
<i>CGN 6160 – Introduction to Research</i>	2	CGN 5605 – Human Diversity	1
<i>CGN 6801 – Lead. &amp; Mgnmt in Nursing</i>	2	CGN 5810 – Mgmt Practice Issues	2
<i>CGN 6802 – Lead. &amp; Mgmt in Nursing Pract</i>	3		
Total	<u>11</u>	Total	<u>9</u>
<b>SEMESTER 5 Spring</b>		<b>SEMESTER 8 Spring</b>	
CGN 5603 – Societal & Ethical Issues	1	CGN 5305 – Nursing Research II	1
CGN 5703 – Introductory Nursing Informatics	3	CGN 5602 – Health Promo. & Dis. Prev.	1
*CGN 7550 – RN Clinical Seminar	1	CGN 5620 – Adv. Health & Pop. Assess.	3
Total	<u>5</u>	CGN 5820 – Prof. Practice Issues	2
		CGN 5900 – Collab Project	2
		Total	<u>9</u>
<b>SEMESTER 6 Summer</b>		<b>SEMESTER 9 Summer</b>	
CGN 5103 – Adv. Health Systems	3	CGN 5830 – Business Practice Issues	2
CGN 5306 – Biostatistics & Epidemiology	3	CGN 5999 –Masters Project	3
CGN 5606 – Comp. & Alternative Med.	1		
Total	<u>7</u>	Total	<u>5</u>
<b>Total Year 2 Units</b>	<b>23</b>	<b>Total Year 3 Units</b>	<b>23</b>
Total Program Units		*Courses not charged tuition but subject to clinical fee	
<b>Prerequisites</b>	<b>30</b>	<i>Italics indicate pre-licensure courses.</i>	
<b>Pre-Licensure Didactic</b>	<b>36</b>		
<b>Pre-Licensure Clinical</b>	<b>24-26</b>		
<b>Post-Licensure RN Clinical*</b>	<b>1</b>		
<b>Post-Licensure Didactic</b>	<b>34</b>		

**College of Graduate Nursing**  
**MSN-E Track – FNP Emphasis**

<b>YEAR 2</b>		<b>YEAR 4</b>	
<b>SEMESTER 4 Fall</b>		<b>SEMESTER 10 Fall</b>	
<i>CGN 6901 – Comm. Health Nursing (theory)</i>	2	<i>CGN 5401 – Primary Care Mgmt I</i>	2
<i>CGN 6902 – Comm. Health Nursing (clinical)</i>	2	<i>CGN 5601 – Adv. Physical Assessment</i>	3
<i>CGN 6160 – Introduction to Research</i>	2	<i>CGN 5631 – Adv. Pathophysiology I</i>	1
<i>CGN 6801 – Lead. &amp; Mgnmt in Nursing</i>	2	<i>CGN 5641 – Clinical Applications I</i>	2
<i>CGN 6802 – Lead. &amp; Mgmt in Nursing Pract</i>	3	* <i>CGN 7570 – Clinical Experience</i>	5
Total	<u>11</u>	Total	<u>13</u>
<b>SEMESTER 5 Spring</b>		<b>SEMESTER 11 Spring</b>	
<i>CGN 5603 – Societal &amp; Ethical Issues</i>	1	<i>CGN 5402 – Primary Care Mgmt II</i>	2
<i>CGN 5703 – Introductory Nursing Informatics</i>	3	<i>CGN 5501 – Pharmacology I</i>	2
* <i>CGN 7550 – RN Clinical Seminar</i>	1	<i>CGN 5632 – Adv. Pathophysiology II</i>	1
Total	<u>5</u>	<i>CGN 5642 – Clinical Applications II</i>	2
<b>SEMESTER 6 Summer</b>		* <i>CGN 7570 – Clinical Experience</i>	5
<i>CGN 5103 – Adv. Health Systems</i>	3	Total	<u>12</u>
<i>CGN 5306 – Biostatistics &amp; Epidemiology</i>	3	<b>SEMESTER 12 Summer</b>	
Total	<u>6</u>	<i>CGN 5403 – Primary Care Mgmt III</i>	2
<b>Total Year 2 Units</b>	<b>22</b>	<i>CGN 5502 – Pharmacology II</i>	2
<b>YEAR 3</b>		<i>CGN 5633 – Adv. Pathophysiology III</i>	1
<b>SEMESTER 7 Fall</b>		<i>CGN 5643 – Clinical Applications III</i>	2
<i>CGN 5200 – Nursing Theory</i>	3	<i>CGN 5691 – Clinical Comps II</i>	1
<i>CGN 5304 – Nursing Research I</i>	3	* <i>CGN 7570 – Clinical Experience</i>	5
<i>CGN 5605 – Human Diversity</i>	1	Total	<u>13</u>
<i>CGN 5810 – Mgmt Practice Issues</i>	2	<b>Total Year 4 Units</b>	<b>38</b>
Total	<u>9</u>	<b>Total Program Units</b>	
<b>SEMESTER 8 Spring</b>		<b>Prerequisites</b>	<b>30</b>
<i>CGN 5305 – Nursing Research II</i>	1	<b>Pre-Licensure Didactic</b>	<b>36</b>
<i>CGN 5602 – Health Promo. &amp; Dis. Prev.</i>	1	<b>Pre-Licensure Clinical</b>	<b>24-26</b>
<i>CGN 5820 – Prof. Practice Issues</i>	2	<b>Post-Licensure Didactic</b>	<b>54</b>
<i>CGN 5900 – Collaborative Project</i>	2	<b>Post-Licensure RN Clinical*</b>	<b>1</b>
Total	<u>6</u>	<b>Post-Licensure FNP Clinical*</b>	<b>15</b>
<b>SEMESTER 9 Summer</b>		*Courses not charged tuition but subject to clinical fee	
<i>CGN 5606 – Comp. &amp; Alternative Med.</i>	1	<i>Italics indicate pre-licensure courses.</i>	
<i>CGN 5830 – Business Practice Issues</i>	2		
<i>CGN 5999 – Masters Project</i>	3		
Total	<u>6</u>		
<b>Total Year 3 Units</b>	<b>21</b>		

## MSN/FNP Track

<b>Pre- Program</b>	Communications (CGN 5000)	<b>1</b>	
<b>Total Units</b>		<b>1</b>	
<b>YEAR 1</b>			<b>YEAR 2</b>
<b>SEMESTER 1 Fall</b>			<b>SEMESTER 4 Fall</b>
CGN 5401 - Primary Care Mgmt I	2	CGN 5200 - Nursing Theory	3
CGN 5601 - Adv Physical Assess	3	CGN 5304 - Nursing Research I	3
CGN 5631 - Adv Pathophysiology I	1	CGN 5605 - Human Diversity	1
CGN 5641 - Clinical Apps I	2	CGN 5810 - Mgmt Pract Issues	2
*CGN 7570 - Clinical Experience	1	*CGN 7570 - Clinical Experience	3
Total	<b>9</b>	Total	<b>12</b>
<b>SEMESTER 2 Spring</b>			<b>SEMESTER 5 Spring</b>
CGN 5402 - Primary Care Mgmt II	2	CGN 5103 – Adv. Health Systems	3
CGN 5501 - Pharm I	2	CGN 5305 - Nursing Research II	1
CGN 5602 - Health Promo & Dis Prev	1	CGN 5820 - Prof Pract Issues	2
CGN 5603 - Soc & Ethic Issues	1	CGN 5900 - Collaborative Project	2
CGN 5632 - Adv Pathophysiology	1	*CGN 7570 - Clinical Experience	3
CGN 5642 - Clinical Apps II	2	Total	<b>11</b>
*CGN 7570 - Clinical Experience	2		
Total	<b>11</b>		
<b>SEMESTER 3 Summer</b>			<b>SEMESTER 6 Summer</b>
CGN 5403 - Primary Care Mgmt III	2	CGN 5691 - Clinical Comps II	1
CGN 5502 - Pharm II	2	CGN 5830 - Business Pract Issues	2
CGN 5606 - Comp & Alt Med	1	CGN 5990 - APN Masters Project	3
CGN 5633 - Adv Pathophysiology III	1	*CGN 7570 - Clinical Exp	4
CGN 5643 - Clinical Apps III	2	Total	<b>10</b>
CGN 5690 - Clinical Comps I	1		
*CGN 7570 - Clinical Experience	2		
Total	<b>11</b>		
<b>Total Year 1 Units</b>	<b>31</b>	CGN 5306 – Biostats & Epidemiology	3
<b>Units</b>	<b>31</b>	<b>ELECTIVE (or for students wishing to enter the DNP program)</b>	
		<b>Total Year 2 Units</b>	<b>33</b>
		<b>Units</b>	<b>33</b>
<b>Total Program Units</b>		*Courses not charged tuition but subject to clinical fee	
<b>49 Didactic Units</b>			
<b>15 Clinical Units*</b>			

**MSN-Only Track**

<b>Pre-program</b>		<b>1</b>
Total		<b>1</b>

**YEAR 1**

**SEMESTER 1 Fall**

CGN 5103 – Adv. Health Systems	3
CGN 5200 - Nursing Theory	3
CGN 5304 - Nursing Research I	3
CGN 5810 - Management Pract. Issues	2
Total	<b>11</b>

**SEMESTER 2 Spring**

CGN 5305 - Nursing Research II	1
**CGN 5501 - Pharm I	2
CGN 5603 - Soc & Ethic Issues	1
CGN 5820 - Prof Pract Issues	2
CGN 5900 - Collab Project	2
Total	<b>8</b>

**SEMESTER 3 Summer**

CGN 5306 - Biostatistics & Epidemiology	3
**CGN 5502 - Pharm II	2
CGN 5830 - Business Pract Issues	2
CGN 5990 - APN Masters Project	3
Total	<b>10</b>

**Total Program Units**

**29 Units**

\*\*4 units of Pharm / or furnishing license

## Post-Master's FNP

<b>Pre-program</b>	Communications & Information Management (CGN 5000)	<u>1</u>
	Total	<b><u>1</u></b>

### YEAR 1

#### **SEMESTER 1 Fall**

CGN 5401 - Primary Care Management I	2
CGN 5601 - Advanced Physical Assessment	3
CGN 5605 - Human Diversity	1
CGN 5631 - Advanced Pathophysiology I	1
CGN 5641 - Clinical Applications I	2
*CGN 7570 - Clinical Experience	<u>5</u>
Total	<b><u>14</u></b>

Elective	CGN 5810 - Management Practice Issues	2
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#### **SEMESTER 2 Spring**

CGN 5402 - Primary Care Management II	2
CGN 5501 - Pharmacology I	2
CGN 5602 - Health Promotion & Disease Prevention	1
CGN 5603 - Social & Ethical Issues	1
CGN 5632 - Advanced Pathophysiology II	1
CGN 5642 - Clinical Applications II	2
CGN 5820 - Professional Practice Issues	2
*CGN 7570 - Clinical Experience	<u>5</u>
Total	<b><u>16</u></b>

#### **SEMESTER 3 Summer**

CGN 5403 - Primary Care Management III	2
CGN 5502 - Pharm II	2
CGN 5606 - Complimentary & Alternative Medicine	1
CGN 5633 - Advanced Pathophysiology III	1
CGN 5643 - Clinical Applications III	2
CGN 5691 - Clinical Competencies II	1
*CGN 7570 - Clinical Experience	<u>5</u>
Total	<b><u>14</u></b>

Elective	CGN 5830 - Business Practice Issues	2
Elective	CGN 5306 - Biostats & Epidemiology ( <i>for students interested in entering the DNP program</i> )	3

<b><u>Total Program Units</u></b>	<b>44</b>
<b>29 Didactic Units</b>	
<b>15 Clinical Units*</b>	

\*Courses not charged tuition but subject to clinical fee

**Ambulatory Post-Master's FNP**  
*For WesternU Students who previously graduated with Ambulatory Care*

**YEAR 1**

**SEMESTER 1 Fall**

CGN 5401 - Primary Care Management I	2
CGN 5601 - Advanced Physical Assessment	3
CGN 5631 - Advanced Pathophysiology I	1
CGN 5641 - Clinical Applications I	2
*CGN 7570 - Clinical Experience	5
Total	<b>13</b>

**SEMESTER 2 Spring**

CGN 5402 - Primary Care Management II	2
CGN 5501 - Pharmacology I	2
CGN 5632 - Advanced Pathophysiology II	1
CGN 5642 - Clinical Applications II	2
*CGN 7570 - Clinical Experience	5
Total	<b>12</b>

**SEMESTER 3 Summer**

CGN 5403 - Primary Care Management III	2
CGN 5502 - Pharm II	2
CGN 5633 - Advanced Pathophysiology III	1
CGN 5643 - Clinical Applications III	2
CGN 5691 - Clinical Competencies II	1
*CGN 7570 - Clinical Experience	5
Total	<b>13</b>

<b>Total Program Units</b>	<b>38</b>
<b>23 Didactic Units</b>	
<b>15 Clinical Units*</b>	

\*Courses not charged tuition but subject to clinical fee

**College of Graduate Nursing**  
**Leadership and Management**

**Pre-program** CGN 5000 – Communication and  
 Information Management

**1**

**YEAR 1**

**YEAR 2**

**SEMESTER 1 Fall**

CGN 5020 – Professional Role Transition      2

CGN 5200 – Nursing Theory      3

Total

**5**

**SEMESTER 4 Fall**

CGN 5103 – Adv. Health Systems      3

CGN 5304 - Nursing Research I      3

\*CGN 7540 Practicum/Seminar

**1**

Total

**7**

**SEMESTER 2 Spring**

CGN 5702 – Management Principles &  
 Leadership Theories      3

CGN 5703 – Introductory Nursing  
 Informatics      3

Total

**6**

**SEMESTER 5 Spring**

CGN 5305 – Nursing Research II      1

CGN 5704 – Accounting and Finance      3

\*CGN 7541 Practicum

**1**

Total

**5**

**SEMESTER 3 Summer**

CGN 5306 – Biostatistics and  
 Epidemiology      3

CGN 5705 – Strategy and Analysis of  
 Organizational Process      3

Total

**6**

**SEMESTER 6 Summer**

CGN 5610 – Professional Role      3

CGN 5999 – Masters Project      3

\*CGN 7541 Practicum

**1**

Total

**7**

**Total Year 1 Units**

**17**

**Total Year 2 Units**

**19**

**Total Program Units**

**36**

**33 Didactic Semester units**

**3 Clinical Semester units\***

\*Courses not charged tuition but subject  
 to clinical fee

**College of Graduate Nursing**  
**Clinical Nurse Leader**

**Pre-program** CGN 5000 – Communication and  
 Information Management 1

<b>YEAR 1</b>		<b>YEAR 2</b>	
<b>SEMESTER 1 Fall</b>		<b>SEMESTER 4 Fall</b>	
CGN 5020 – Professional Role Transition	2	CGN 5103 – Adv. Health Systems	3
CGN 5200 – Nursing Theory	3	CGN 5304 - Nursing Research I	3
CGN 5631 – Adv. Pathophysiology I	1	*CGN 7561 – CNL Clinical Experience	3
Total	<u>6</u>	Total	<u>9</u>
<b>SEMESTER 2 Spring</b>		<b>SEMESTER 5 Spring</b>	
CGN 5632 – Adv. Pathophysiology II	1	CGN 5305 – Nursing Research II	1
CGN 5702 – Management Principles & Leadership Theories	3	CGN 5505 – Pharmacotherapeutics & Technology	3
CGN 5703 – Introductory Nursing Informatics	3	CGN 5620 – Adv. Health & Pop. Assess.	3
Total	<u>7</u>	*CGN 7561 - CNL Clinical Experience	3
		Total	<u>10</u>
<b>SEMESTER 3 Summer</b>		<b>SEMESTER 6 Summer</b>	
CGN 5306 – Biostatistics and Epidemiology	3	CGN 5610 – Professional Role	3
CGN 5633 – Adv. Pathophysiology III	1	CGN 5999 – Masters Project	3
CGN 5705 – Strategy and Analysis of Organizational Process	3	*CGN 7561 – CNL Clinical Experience	3
*CGN 7560 – CNL Clinical Experience/Seminar	1	Total	<u>9</u>
Total	<u>8</u>		
<b>Total Year 1 Units</b>	<b>21</b>	<b>Total Year 2 Units</b>	<b>28</b>
<b>Total Program Units</b>	<b>49</b>		
<b>39 Didactic Semester units</b>			
<b>10 Clinical Semester units*</b>			

\*Courses not charged tuition but subject to  
 clinical fee

**College of Graduate Nursing**  
**Ambulatory Care**

**Pre-program** CGN 5000 – Communication and Information Management **1**

<b>YEAR 1</b>		<b>YEAR 2</b>	
<b>SEMESTER 1 Fall</b>		<b>SEMESTER 4 Fall</b>	
CGN 5103 – Adv. Health Systems	3	CGN 5304 - Nursing Research I	3
CGN 5200 Nursing Theory	3	CGN 5810 – Mgmt Practice Issues	2
CGN 5605 – Human Diversity	1		
CGN 5631 – Adv. Pathophysiology I	1	Total	<b>5</b>
Total	<b>8</b>		
<b>SEMESTER 2 Spring</b>		<b>SEMESTER 5 Spring</b>	
CGN 5602 – Health Promo. & Dis. Prev.	1	CGN 5305 – Nursing Research II	1
CGN 5603 – Societal & Ethical Issues	1	CGN 5620 – Adv. Health & Pop. Assess.	3
CGN 5632 – Adv. Pathophysiology II	1	CGN 5820 – Prof. Practice Issues	2
CGN 5703 – Introductory Nursing Informatics	3	CGN 5900 – Collab Project	2
Total	<b>6</b>	Total	<b>8</b>
<b>SEMESTER 3 Summer</b>		<b>SEMESTER 6 Summer</b>	
CGN 5306 – Biostatistics & Epidemiology	3	CGN 5830 – Business Practice Issues	2
CGN 5606 – Comp. & Alternative Med.	1	CGN 5999 – Masters Project	3
CGN 5633 – Adv. Pathophysiology III	1	Total	<b>5</b>
Total	<b>5</b>		
<b>Total Year 1 Units</b>	<b>19</b>	<b>Total Year 2 Units</b>	<b>18</b>
<b>Total Program Units</b>	<b>37</b>		

**College of Graduate Nursing**  
**ADN/RN to MSN Leadership and Management**

**Pre-program** CGN 5000 – Communication and Information Management **1**

**YEAR 1**

**SEMESTER 1 Fall**

CGN 6803 – Lead. & Mgmt in Nursing	2
CGN 5010 – Intro to Nursing Theory	2
CGN 5020 – Professional Role Transition	2
Total	<b>6</b>

**YEAR 2**

**SEMESTER 4 Fall**

CGN 5103 – Adv. Health Care Systems	3
CGN 5200 – Nursing Theory	3
CGN 5304 - Nursing Research I	3
*CGN 7540 – Practicum/Seminar	1
Total	<b>10</b>

**SEMESTER 2 Spring**

*CGN 6804 – Lead. & Mgmt in Nursing Pract	1
CGN 6903 – Comm. Health Nursing (theory)	2
*CGN 6904 – Comm. Health Nursing (clinical)	2
CGN 5702 – Mgmt Princ. & Lead. Theories	3
Total	<b>8</b>

**SEMESTER 5 Spring**

CGN 5305 – Nursing Research II	1
CGN 5703 – Introductory Nursing Informatics	3
CGN 5704 – Accounting and Finance	3
*CGN 7541 – Practicum	1
Total	<b>8</b>

**SEMESTER 3 Summer**

CGN 5306 – Biostatistics and Epidemiology	3
CGN 5705 – Strategy and Analysis of Organizational Process	3
Total	<b>6</b>

**SEMESTER 6 Summer**

CGN 5610 – Professional Role	3
CGN 5999 – Masters Project	3
*CGN 7541 – Practicum	1
Total	<b>7</b>

**Total Year 1 Units** **20**

**Total Year 2 Units** **25**

**Total Program Units** **45**

\*Courses not charged tuition but subject to clinical fee

**39 Didactic Semester units**

**6 Clinical Semester units\***

**College of Graduate Nursing  
ADN/RN to MSN Clinical Nurse Leader**

## **Pre-program CGN 5000 – Communication and Information Management**

<b>YEAR 1</b>		<b>YEAR 2</b>	
<b>SEMESTER 1 Fall</b>		<b>SEMESTER 4 Fall</b>	
CGN 6803 – Lead. & Mgnmt in Nursing	2	CGN 5103 – Adv. Health Systems	3
CGN 5010 – Intro to Nursing Theory	2	CGN 5200 – Nursing Theory	3
CGN 5020 – Professional Role Transition	2	CGN 5304 - Nursing Research I	3
CGN 5631 – Adv. Pathophysiology I	1	*CGN 7561 CNL Clinical Experience	3
Total	<b>7</b>	Total	<b>12</b>
<b>SEMESTER 2 Spring</b>		<b>SEMESTER 5 Spring</b>	
*CGN 6804 – Lead. & Mgmt in Nursing Pract	1	CGN 5305 – Nursing Research II	1
CGN 6903 – Comm. Health Nursing	2	CGN 5505 – Pharmacotherapeutics & Technology	3
*CGN 6904 – Comm. Health Nursing (clinical)	2	CGN 5620 – Adv. Health & Population	3
CGN 5632 – Adv. Pathophysiology II	1	CGN 5703 – Introductory Nursing Informatics	3
CGN 5702 – Management Principles & Leadership Theories	3	*CGN 7561 CNL Clinical Experience	3
Total	<b>9</b>	Total	<b>13</b>
<b>SEMESTER 3 Summer</b>		<b>SEMESTER 6 Summer</b>	
CGN 5306 – Biostatistics and Epidemiology	3	CGN 5610 – Professional Role	3
CGN 5633 – Adv. Pathophysiology III	1	CGN 5999 – Masters Project	3
CGN 5705 – Strategy and Analysis of Organizational Process	3	*CGN 7561 CNL Clinical Experience	3
*CGN 7560 CNL Clinical Experience/Seminar	1	Total	<b>9</b>
Total	<b>8</b>		
<b>Total Year 1 Units</b>	<b>24</b>	<b>Total Year 2 Units</b>	<b>34</b>
<b>Total Program Units</b>	<b>58</b>		
<b>44 Didactic Semester units</b>			
<b>14 Clinical Semester units</b>			

\*Courses not charged tuition but subject to clinical fee

**College of Graduate Nursing**  
**ADN/RN to MSN Ambulatory Care**

<b>Pre-program</b>	CGN 5000 – Communication and Information Management	<b>1</b>		
	<b>YEAR 1</b>		<b>YEAR 2</b>	
	<b>SEMESTER 1 Fall</b>		<b>SEMESTER 4 Fall</b>	
	CGN 6803 – Lead. & Mgmt in Nursing	2	CGN 5200 – Nursing Theory	3
	CGN 5010 – Intro to Nursing Theory	2	CGN 5304 - Nursing Research I	3
	CGN 5020 – Professional Role Transition	2	CGN 5605 – Human Diversity	1
	Total	<b>6</b>	CGN 5810 – Mgmt Practice Issues	2
			Total	<b>9</b>
	<b>SEMESTER 2 Spring</b>		<b>SEMESTER 5 Spring</b>	
	*CGN 6804 – Lead. & Mgmt in Nursing Pract	1	CGN 5305 – Nursing Research II	1
	CGN 6903 – Comm. Health Nursing (theory)	2	CGN 5602 – Health Promo. & Dis. Prev.	1
	*CGN 6904 – Comm. Health Nursing (clinical)	2	CGN 5620 – Adv. Health & Pop. Assess.	3
	CGN 5603 – Societal & Ethical Issues	1	CGN 5820 – Prof. Practice Issues	2
	CGN 5703 – Introductory Nursing Informatics	3	CGN 5900 – Collaborative Project	2
	Total	<b>9</b>	Total	<b>9</b>
	<b>SEMESTER 3 Summer</b>		<b>SEMESTER 6 Summer</b>	
	CGN 5103 – Adv. Health Systems	3	CGN 5830 – Business Practice Issues	2
	CGN 5306 – Biostatistics & Epidemiology	3	CGN 5999 – Masters Project	3
	CGN 5606 – Comp. & Alternative Med.	1	Total	<b>5</b>
	Total	<b>7</b>		
	<b>Total Year 1 Units</b>	<b>22</b>	<b>Total Year 2 Units</b>	<b>23</b>
	<b>Total Program Units</b>	<b>45</b>		
	<b>42 Didactic Semester units</b>			
	<b>3 Clinical Semester units*</b>			

\*Courses not charged tuition but subject to clinical fee

## **College of Graduate Nursing ADN/RN to MSN/FNP**

<b>Pre-program</b>	CGN 5000 – Communication and Information Management	<b>YEAR 1</b>	<b>YEAR 3</b>	
		<b>YEAR 1</b>	<b>YEAR 3</b>	
	<b>SEMESTER 1 Fall</b>		<b>SEMESTER 4 Fall</b>	
	CGN 6803 – Lead. & Mgmt in Nursing	2	CGN 5401 – Primary Care Mgmt I	2
	CGN 5010 – Intro to Nursing Theory	2	CGN 5601 – Adv. Physical Assessment	3
	CGN 5020 – Professional Role Transition	2	CGN 5631 – Adv. Pathophysiology I	1
	Total	<b>6</b>	CGN 5641 – Clinical Applications I	2
			*CGN 7570 – Clinical Experience	5
			Total	<b>13</b>
	<b>SEMESTER 2 Spring</b>		<b>SEMESTER 8 Spring</b>	
	*CGN 6804 – Lead. & Mgmt in Nursing Pract	1	CGN 5402 – Primary Care Mgmt II	2
	CGN 6903 – Comm. Health Nursing (theory)	2	CGN 5501 – Pharmacology I	2
	*CGN 6904 – Comm. Health Nursing (clinical)	2	CGN 5632 – Adv. Pathophysiology II	1
	CGN 5603 – Societal & Ethical Issues	1	CGN 5642 – Clinical Applications II	2
	CGN 5703 – Introductory Nursing Informatics	3	*CGN 7570 – Clinical Experience	5
	Total	<b>9</b>	Total	<b>12</b>
	<b>SEMESTER 3 Summer</b>		<b>SEMESTER 9 Summer</b>	
	CGN 5103 – Adv. Health Systems	3	CGN 5403 – Primary Care Mgmt III	2
	CGN 5306 – Biostatistics & Epidemiology	3	CGN 5502 – Pharmacology II	2
	CGN 5606 – Comp. & Alternative Med.	1	CGN 5633 – Adv. Pathophysiology III	1
	Total	<b>7</b>	CGN 5643 – Clinical Applications III	2
			CGN 5691 – Clinical Comps II	1
	<b>Total Year 1 Units</b>	<b>22</b>	*CGN 7570 – Clinical Experience	5
			Total	<b>13</b>
	<b>YEAR 2</b>			
	<b>SEMESTER 4 Fall</b>		<b>Total Year 4 Units</b>	<b>38</b>
	CGN 5200 – Nursing Theory	3		
	CGN 5304 - Nursing Research I	3		
	CGN 5605 – Human Diversity	1		
	CGN 5810 – Mgmt Practice Issues	2		
	Total	<b>9</b>		
			<b>Total Program Units:</b>	<b>80</b>
			<b>62 Didactic units</b>	
			<b>18 Clinical units</b>	
	<b>SEMESTER 5 Spring</b>			
	CGN 5305 – Nursing Research II	1		
	CGN 5602 – Health Promo. & Dis. Prev.	1		
	CGN 5820 – Prof. Practice Issues	2		
	CGN 5900 – Collaborative Project	2		
	Total	<b>6</b>		
	<b>SEMESTER 6 Summer</b>			
	CGN 5830 – Business Practice Issues	2		
	CGN 5999 – Masters Project	3		
	Total	<b>5</b>		
	<b>Total Year 2 Units</b>	<b>20</b>		

\*Courses not charged tuition but subject to clinical fee

**College of Graduate Nursing**  
**Doctor of Nursing Practice**

<b>Pre-program</b>	CGN 5000 – Communication and Information Management (may be required)	<b>1</b>		
		<b>YEAR 1</b>	<b>YEAR 2</b>	
		<b>SEMESTER 1 Fall</b>	<b>SEMESTER 4 Fall</b>	
	CGN 8010 – Philosophy and Science for Nursing Practice	3	*CGN 8030 – Clinical Scholarship, Research, and Evidence-Based Practice	
	CGN 8050 – Social Justice, Health Care Advocacy, and Policy in Nursing Practice	3	*CGN 8070 - Population Based Prevention in Vulnerable Populations	
	Total	<b>6</b>	<b>6</b>	
		<b>SEMESTER 2 Spring</b>	<b>SEMESTER 5 Spring</b>	
	*CGN 8020 – Quality and Leadership in the 21 <sup>st</sup> Century Health Care System	3	*CGN 8090 – Clinical Project	
	*CGN 8080 – Care Delivery Improvement: Models and Strategies	3	Total	
	Total	<b>6</b>	<b>3</b>	
		<b>SEMESTER 3 Summer</b>	<b>SEMESTER 6 Summer</b>	
	*CGN 8040 – Transformational Information Systems for Health Care	3	*CGN 8090 – Clinical Project	
	*CGN 8060 – Outcome Based Collaboration and Collaborative Models	3	Total	
	Total	<b>6</b>	<b>3</b>	
			CGN 8002 – Evidence and Innovation in Nursing Education (ELECTIVE)	
	<b>Total Year 1 Units</b>	<b>18</b>	<b>Total Year 2 Units</b>	<b>12</b>
	<b>Total Program Units</b>	<b>30</b>		

*\*Indicates didactic courses that contain a clinical element. A \$520 clinical fee will be accessed along with tuition for any semester requiring clinical hours.*

**College of Graduate Nursing**  
**Doctor of Nursing Practice**  
**(For NFLP Loan recipients only)**

<b>Pre-program</b>	CGN 5000 – Communication and Information Management (may be required)	<b>1</b>		
		<b>YEAR 1</b>	<b>YEAR 3</b>	
	<b>SEMESTER 1 Fall</b>		<b>SEMESTER 7 Fall</b>	
	CGN 8010 – Philosophy and Science for Nursing Practice	3	*CGN 8090 – Clinical Project	3
	CGN 8050 – Social Justice, Health Care Advocacy, and Policy in Nursing Practice	3	Total	<b>3</b>
	Total	<b>6</b>		
	<b>SEMESTER 2 Spring</b>		<b>SEMESTER 8 Spring</b>	
	*CGN 8020 – Quality and Leadership in the 21 <sup>st</sup> Century Health Care System	3	*CGN 8090 – Clinical Project	3
	*CGN 8080 – Care Delivery Improvement: Models and Strategies	3	Total	<b>3</b>
	Total	<b>6</b>		
			<b>Total Year 3 Units</b>	<b>6</b>
	<b>SEMESTER 3 Summer</b>			
	*CGN 8040 – Transformational Information Systems for Health Care	3		
	*CGN 8060 – Outcome Based Collaboration and Collaborative Models	3		
	Total	<b>6</b>		
	<b>Total Year 1 Units</b>	<b>18</b>		
	<b>YEAR 2</b>			
	<b>SEMESTER 4 Fall</b>			
	*CGN 8030 – Clinical Scholarship, Research, and Evidence-Based Practice	3	<b>Total Program Units</b>	<b>36</b>
	*CGN 8070 - Population Based Prevention in Vulnerable Populations	3		
	Total	<b>6</b>		
	<b>SEMESTER 5 Spring</b>			
	CGN 8001 – Fundamentals for Nurse Educators	3		
	Total	<b>3</b>		
	<b>SEMESTER 6 Summer</b>			
	CGN 8002 – Evidence and Innovation in Nursing Education	3		
	Total	<b>3</b>		
	<b>Total Year 2 Units</b>	<b>12</b>		

*\*Indicates didactic courses that contain a clinical element. A \$520 clinical fee will be assessed along with tuition for any semester requiring clinical hours.*

## **COURSE DESCRIPTIONS**

### **CGN 5000 Communication and Information Management (1 unit)**

This introductory course provides new College of Graduate Nursing advanced practice nursing students with a comprehensive introduction to Western University's distance learning programs. In addition to learning about Western University of Health Sciences and the College of Graduate Nursing, students will complete a series of assignments designed to prepare them for the technical and academic policy requirements of the College of Graduate Nursing. Emphasis will be placed on necessary computer skills and proficient use of the software required for use in the curriculum, and the academic writing skills necessary for successful completion of the program.

### **CGN 5010 Introduction to Nursing Theory (2 units)**

This course introduces the student to theory in nursing. The structural components of theory are defined. The evolution of knowledge development in nursing is presented. Implications for the application of nursing theory to research and practice in nursing are explored. This course explores the theoretical foundations of nursing as an applied science.

### **CGN 5020 Professional Role Transition (2 units)**

This course focuses on transition from an undergraduate (ADN or BSN) prepared professional nurse to an MSN prepared nurse. The MSN prepared nurse recognizes the nature of health care delivery in light of the impact of rapidly changing medical and information technologies, consumer demand and government economic and health policies. This course begins the process of transitioning from an undergraduate prepared nurse to one with an advanced degree in this complex health environment and outlines the required leadership skills and vision needed.

### **IPE 5000 – Patient Centered Cases – An Interprofessional Approach I (1 unit)**

This course is a required seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduation requirement for all health professional programs.

### **IPE 5100 Patient Centered Cases – An Interprofessional Approach II (1 unit)**

Continuation of IPE 5000.

### **CGN 5103 Advanced Health Systems (3 units)**

This course will focus on the microsystems of health care units and their interrelationship to the health care system. Patient safety, interdisciplinary teams, population health, disease management, and care delivery modules will be explored.

### **CGN 5104 Health Systems Overview (1 unit)**

This independent study, web-based course is organized around four topical areas in the United States healthcare system. The first topical area introduces an overview of healthcare economics; how health care is financed in this country and basic fiduciary concepts related to insurance and reimbursement. The second topical area examines how healthcare in this country is paid for, with special attention given to Medicare, Medicaid, and managed care insurance options. Gaps and overlaps in coverage are examined. The third topical area examines the settings in which elderly receive long term health care in this country with special attention given to skilled nursing facilities, community care settings, and care within the home. The final topical area examines current health care policies and proposed legislation affecting an individual's access to and consumption of health care resources. Issues related to reimbursement for advanced practice nurses are examined

### **CGN 5200 Nursing Theory (3 units)**

This course explores the theoretical context of contemporary nursing practice which serve to guide nursing practice and primary health care that optimizes health and self-care in families. In addition, this course will integrate knowledge from the physical, biological, and behavioral sciences to systematically and critically apply selected conceptual frameworks to the development of nursing, family systems, and the response to illness. It is

expected that the graduate nursing student will develop an appreciation of the process of theory development in nursing, compare and contrast various theoretical perspectives, and apply nursing theories critically.

#### **CGN 5304 Nursing Research I (3 units)**

Nursing Research I, provides a foundation for understanding research as an essential component of evidenced-based practice and core competency of graduate nursing practice. The historical, scientific, and theoretical context of research in nursing examined. During this course students complete Human Subjects Protection certification, and examine and critique the components of a research study including the research question, literature review, theoretical framework, methodology, analysis, and interpretation of findings for application to practice. In addition, students examine strategies to stay abreast of current research and changes in therapeutic management. This course provides the foundation for the design of a research study, or clinical project involving data collection, in Nursing Research II.

#### **CGN 5305 Nursing Research II (1 unit)**

Nursing Research II, builds on the foundation established in 5304. Students design a research study, or a clinical project involving data collection, which could be implemented as the student's culminating experience.

Prerequisite: CGN 5304.

#### **CGN 5306 Biostatistics and Epidemiology (3 units)**

This course focuses on the interpretation and use of biostatistics for graduate nursing practice including basic epidemiological concepts, quantitative methodology for evidence based practice, and statistical utility for decision making. The student is introduced to statistical analysis software; the process of instrument development, validity and reliability assessment, and pilot testing; decision theory; and the critical analysis and evaluation of the methods, results, and discussion sections of a research report.

#### **CGN 5401 Primary Care Management I: Common and Acute Conditions (2 units)**

This first course in Primary Care Management will help students integrate basic knowledge of human anatomy and physiology with an understanding of the pathologic changes and clinical manifestations that characterize common and acute disorders in adult, obstetric, pediatric, and geriatric clients. Students will apply new understanding of pathophysiology and evolving clinical decision making skills to the interpretation of assessment data and the diagnosis and treatment of primary care clients and their families across the life cycle.

#### **CGN 5402 Primary Care Management II: Chronic and Complex Conditions (2 units)**

This second course in Primary Care Management continues to help students integrate their basic knowledge of human anatomy and physiology with an understanding of the pathological changes and clinical manifestations that characterize common, chronic, and complex disorders in pediatric, adult, obstetric, and geriatric clients. Students will apply their new understanding of pathophysiology and their evolving clinical decision making skills to the interpretation of assessment data and the diagnosis and treatment of primary care clients and their families across the life cycle. Prerequisite: CGN 5401.

#### **CGN 5403 Primary Care Management III: Application to Special Populations (2 units)**

This third course in Primary Care Management enhances the student's ability to integrate a basic knowledge of human anatomy and physiology with an understanding of the pathologic changes and clinical manifestations that characterize common, acute, chronic, and complex disorders in pediatric, obstetric, and geriatric clients. Students will apply their understanding of pathophysiology and their evolving clinical decision-making skills to the interpretation of assessment data and the diagnosis and treatment of primary care clients and their families across the life cycle within the special populations of pediatrics, obstetrics and geriatrics. Prerequisite: CGN 5401 and CGN 5402.

#### **CGN 5501 Pharmacology I: Common Conditions and Acute Conditions (2 units)**

This is the first of two pharmacology courses that will focus on the pharmacotherapy of health care problems covered in the Primary Care Management series. In CGN 5401, students learned the pathophysiological basis of acute and common health care problems of patients seen in the primary care setting. In this course, students will continue to develop their primary care clinical management skills by learning and incorporating the pharmacotherapy of acute and common health care problems into the care of patients seen in this setting.

**CGN 5502 – Pharmacology II: Chronic Conditions and Complex Conditions (2 units)**

This is the second of two pharmacology courses that will focus on the pharmacotherapy of health care problems covered in the Primary Care Management series. In CGN 5402 and CGN 5403, students learn the pathophysiological basis of chronic and complex health care problems of patients seen in the primary care setting. In Pharmacology II, students will continue to develop primary care clinical management skills by learning and incorporating the pharmacotherapy of chronic and complex health care problems into the care of patients seen in this setting. Prerequisite: CGN 5501.

**CGN 5505 – Pharmacotherapeutics and Technology (3 units)**

This advanced pharmacology course will provide students with an in-depth knowledge of pharmacological management of patients with complex conditions and illnesses. Emphasis will be given on assuring safe, efficacious, and ethical delivery of pharmacotherapeutics. Students will explore health systems applications for using new and emerging technologies designed to reduce medical error and enhance the effectiveness of pharmacotherapeutics.

**CGN 5601 – Advanced Physical Assessment (3 units)**

This course examines the role of the Family Nurse Practitioner as a clinical decision maker in a sociocultural context. To help students transition to this advanced practice role, the course introduces skills that build on undergraduate education and experience with respect to basic physical assessment. These advanced skills, which draw on knowledge from nursing, medicine, and other disciplines, include recognition and interpretation of clinical assessment data, diagnostic reasoning and treatment decision-making, and medical record keeping. Over the course of the program, students will be expected to integrate these skills with knowledge of common, acute, chronic, and complex illnesses in order to assess and manage patients across the life cycle.

**CGN 5602 – Health Promotion and Disease Prevention (1 unit)**

This course is designed to transition the Family Nurse Practitioner student from building physical assessment skills to an application of preventive health concepts and health promotion across the life span, using the Health People 2010 guidelines as a resource. Students will learn how to apply health promotion lifestyle changes, disease prevention concepts and genetics screening options in the primary care patient population. Clinical preventive services and health promotion concepts that will be examined include: health screening, counseling, immunization / chemoprevention in pediatric and adult clients, genetic risk identification, and evidence based medicine practice applications. Methods for counseling clients in lifestyle behaviors such as nutrition, physical activity, smoking cessation, and violence prevention will also be explored.

**CGN 5603 – Societal & Ethical Issues (1 unit)**

This course focuses on the social and ethical issues that often arise when providing primary health care to clients over the life span. The interdependence of these social and clinical issues mandate that the health care provider become aware of the relevant legal, ethical, and medical implications of physical and sexual child abuse, domestic violence, elder abuse, underage pregnancy, substance abuse, and elder clients at risk for polypharmacy, dementia, depression and/or homelessness. It is expected that the student will critically reflect on and analyze the ethical challenges and societal factors that influence the provider-patient relationship.

**CGN 5605 – Advanced Human Diversity (1 unit)**

In this role development course, students will examine the skills used to be culturally competent and sensitive to human diversity. The graduate nursing student will begin by gaining an understanding of the principles of delivering culturally sensitive care. The course requires that students open their minds and examine their own cultural and humanistic beliefs and values, and explore the impact of those beliefs and values on clinical practice as a health care professional. Students will also explore strategies for successful patient-provider relationships when the patients' culture, race/ethnicity, prejudice and lifestyle beliefs conflict with the health models used in medicine and nursing science.

**CGN 5606 – Complementary & Alternative Therapies (1 unit)**

This course focuses on the practices of alternative or complementary therapy utilized by the consumers of health care in this country. Among the complementary therapies students will consider in this course are acupuncture, yoga, biofeedback, chiropractic, dietary supplements, exercise, herbs, homeopathy, hypnosis, imagery, massage, relaxation, meditation, spiritual healing, symbols and rituals, folk medicine and energy work.

**CGN 5610 – Professional Role (3 units)**

This course focuses on professional roles traditionally assumed by master's prepared nurses including care giver, communicator, problem solver, change agent, client advocate, educator, leader, manager, researcher and coordinator. Role theory is presented as a framework for examining how nursing roles overlap and at times conflict. The Administrator role will be emphasized and other advanced practice nursing roles will be examined. Population and workforce demographics as well as trends in health care are explored in terms of their impact on these roles as well as future nursing roles. Finally, the need for nurses to develop interdisciplinary role relationships is emphasized, including challenges to those relationships.

**CGN 5620 – Advanced Health and Population Assessment (3 units)**

This course will address advanced health assessment for both individual and communities of clients. The focus will include concepts of population-based assessments for high risk clients in both acute care and community-based settings. Students will build on their graduate knowledge of health assessment and utilize diagnostic reasoning and evidence-based research to enhance client outcomes. Emphasis will include risk assessment, health promotion, illness prevention and protection and to promote improved management of high acuity clients or populations of clients in multiple health settings.

**CGN 5631 – Advanced Pathophysiology I (1 unit)**

This first course in a three part series builds on basic pathophysiology principles and explores the principles of normal body functions and pathophysiological changes that occur as a result of disease, lifestyle, and homeostatic changes in the body. Altered pathophysiological health is explored at the genetic, cellular and organ system level. Epidemiology, pathophysiological processes and related system interaction are examined. Disease processes across the life span are explored and case studies are used to demonstrate the clinical assessment approach for the advanced practice student. This first course focuses on common and acute pathophysiological processes.

**CGN 5632 – Advanced Pathophysiology II (1 unit)**

This course is the second in the series of pathophysiology principles and explores the principles of normal body functions and pathophysiological changes that occur as a result of disease, lifestyle, and homeostatic changes in the body across the lifespan. Disease processes across the life span are explored and case studies are used to demonstrate the clinical assessment approach for the advanced practice student. This second course focuses on chronic and complex pathophysiological processes. Prerequisite: CGN 5631.

**CGN 5633 – Advanced Pathophysiology III (1 unit)**

This course is the third in the series of pathophysiological principles and explores the principles of normal body functions and pathophysiological changes that occur as a result of disease, lifestyle, and homeostatic changes in the body across the lifespan. This third course enhances the student's ability to integrate a basic knowledge of pathologic changes and clinical manifestations that characterize common, acute, chronic, and complex disorders in pediatric, obstetric, and geriatric clients. Students will apply their understanding of pathophysiology and their evolving integration across the life cycle within the special populations of pediatrics, obstetrics and geriatrics. Prerequisite: CGN 5631and CGN 5632.

**CGN 5641 – Clinical Applications I: Clinical Reasoning & Diagnostics (2 units)**

This course is designed to enhance the student nurse practitioner's physical assessment, diagnostic reasoning and diagnostic procedure interpretation skills. Building on the practitioner's knowledge and skills to identify and distinguish normal from abnormal findings, basic health assessment often moves from a general survey of a body system to specific observations or tests of function.

The student nurse practitioner will learn how to apply this new level of understanding to build on basic health appraisal using clinical cases including common, acute, chronic and complex health conditions. Through these cases, students will learn to gather further evidence and analyze this evidence to arrive at a hypothesis that will lead to a further narrowing of differential diagnoses in order to manage patients across the life cycle. Clinical diagnostics will be incorporated into the assessment process and these will include: laboratory diagnostics, radiology diagnostics and cardiovascular monitoring and diagnostics. Students will also refine documentation and medical record-keeping skills. The skills gained in this course will provide the basic foundations of diagnostic reasoning that will guide students through other courses throughout the program including Primary Care Management, Pharmacology, and Clinical Experience.

**CGN 5642 – Clinical Applications II (2 units)**

In this second course in the Clinical Applications series, students will continue to learn diagnostic and therapeutic procedures and skills critical to the advanced practice nurse. The area of focus in this course is Women's Health diagnostics and therapeutics across the lifespan. These procedures and skills include: the clinical breast examination and practicum; gynecologic procedures and diagnostics [e.g. endometrial biopsies, inserting/removing IUDs, and cervical cancer diagnostics & therapeutics; sexually transmitted infection diagnostics; infertility diagnostics and therapeutics; contraceptive technology; obstetric surveillance and diagnostics (e.g. obstetric ultrasonography, stress tests, Triple Marker testing, etc.)]. Prerequisite: CGN 5641.

**CGN 5643 – Clinical Applications III (2 units)**

In this third course in the Clinical Applications series, students will continue to learn diagnostic and therapeutic procedures and skills critical to the advanced practice nurse. The area of focus in this course is pediatric, adult and geriatric health diagnostics and therapeutics across the lifespan. These procedures and skills include: microscopy; office orthopedic appliances and treatment techniques; dermatologic diagnostic/therapeutic procedures; local anesthesia use and suturing techniques; eyes, ears, nose and throat diagnostic/therapeutic procedures; gastrointestinal examination techniques and therapies; and techniques for clinical emergencies and other urgent conditions. Prerequisite: CGN 5641 and CGN 5642.

**CGN 5690 – Clinical Comprehensive Evaluation I (1 unit)**

This course provides an opportunity for students to synthesize concepts, skills and techniques from previous courses and apply their learning toward assessing and managing case studies across the life span. The student will participate in various methodologies for assessing their application of knowledge learned. To assess clinical performance and knowledge, students will engage in observed structured clinical examinations (OSCE), with the assistance of standardized patients with common and acute conditions; create written clinical case management evaluations ("Day in the Clinic") of common and acute conditions; and begin certification review by taking initial evaluation assessment examination and preliminary modules.

**CGN 5691 – Clinical Comprehensive Evaluation II (1 unit)**

This course provides an opportunity for the advanced practice nursing student who is nearing completion of studies to synthesize concepts, skills and techniques from previous courses and apply learning toward assessing and managing case studies across the life span. The student will participate in various methodologies for assessing application of knowledge learned. To assess clinical performance and knowledge students will: engage in observed structured clinical examinations (OSCE), with the assistance of standardized patients with chronic and complex conditions; create written clinical case management evaluations ("Day in the Clinic") of chronic and complex conditions; and complete certification review by taking final evaluation assessment. The certification review provides prospective graduates with an opportunity to validate the knowledge they have acquired throughout the program, and assess their readiness for the national certification exam.

**CGN 5702 – Management Principles and Leadership Theories (3 units)**

This course builds upon CGN 6801 and introduces learners to the directing and controlling phases of the management process. Emphasis is given to issues common to first and middle level managers including motivation, communication, delegation, conflict management, unions and employment laws, quality control, performance appraisal, discipline, and advocacy. Accountability for legal and ethical management practice is emphasized. Various modes of inquiry, including nursing process, problem-solving models, and decision making tools are emphasized. Motivation theory, communication theory, conflict theory, management theories, leadership theories, behavioral theories, ethical theory, legal concepts, and communication strategies are emphasized.

**CGN 5703 – Introductory Nursing Informatics (3 units)**

This course explores the nursing specialty of Nursing Informatics and its value and impact on nursing practice, research, and education. It focuses on the use of computers and technology to access and manage information related to nursing practice, telehealth, and clinical management. It examines technology's role in evidence-based practice, nursing education, and health care applications of information technology. Topics will also include health care applications, ethical and legal issues, and challenges related to the use of Informatics.

**CGN 5704 – Accounting and Finance (3 units)**

This course introduces financial concepts, financial management and accounting methods applied within the context of contemporary integrated health systems. Analysis of cost, quality and outcomes as factors in delivery of health care will be explored.

**CGN 5705 – Strategy and Analysis of Organizational Process (3 units)**

This course focuses on organizational structure and behavior. Organization strategies, culture, motivation, conflict and change will be examined. The impact of regulatory agencies on the health care organization is also examined.

**CGN 5810 – Management Practice Issues (2 units)**

This course presents a variety of role-related topics designed to prepare the prospective Nurse Practitioner for management practice. Additionally, this course will help prepare the student for the CGN 5900 Collaborative Project in the next semester and the CGN 5990 Culminating Project in the last semester. The course will explore fundamental business principles related to: management and leadership theory, effective decision making, project management, business planning, financial risk assessment and management, creating and using financial information, grant writing, business ethics, employee relations and supervision management, and marketing and sales.

**CGN 5820 – Professional Practice Issues (2 units)**

This course presents a variety of role-related topics designed to prepare the prospective Nurse Practitioner for professional practice. Beginning with a historical overview of the NP profession, the course will examine some of the critical issues that determine the practitioner's scope of practice, career options, peer review, protocols and standardized procedures, practice profiling, leadership and political involvement. In addition, the course presents guidelines for resolving professional legal and ethical issues that are often confronted by the NP. Students will also be introduced to valuable tools for ongoing professional development such as professional organizations and journals.

**CGN 5830 – Business Practice Issues (2 units)**

This course presents a variety of role-related topics designed to prepare the prospective Nurse Practitioner for business practice. The business practice concepts explored will prepare the nurse practitioner graduate to enter the business of health care with the tools needed to be successful. The areas of focus will include: reimbursement (Medicare, Medicaid, indemnity insurance, fee for service, managed care organizations and business contracts for special services); billing and coding; evaluation and management codes; state regulations; federal regulations; office laboratory evaluations under CLIA; malpractice; employment law; facility access to disabled persons; HIPAA; credentialing and privileging; entrepreneurial issues and strategies; business ethics; and business management and fundamentals.

**CGN 5900 – Collaborative Project (2 units)**

The CGN 5900 collaborative exercise is based on a health care project. The graduate student learns to approach, evaluate and design an intervention for a community health care project with the assistance of colleagues in a group effort. The skills learned in this collaborative project will help prepare the student in developing the independent culminating project for the CGN 5990 course.

**CGN 5990– APN Master’s Project (3 units)**

The APN Master’s Project provides the Advanced Practice Nurse prospective graduate with a final opportunity to demonstrate his or her ability to integrate and apply concepts learned throughout the master’s program in the practice setting. The culminating course requires the student to develop a health care improvement project, which is broad in scope and has implications for community or practice settings. The project should offer insight into the unique contributions nurse practitioners make for a specified population(s). Prerequisites: All program courses. CGN 5990 must be taken at the end of the program.

**CGN 5999 – Master’s Project (3 units)**

The Master’s Project requires comprehensive integration of all facets of the nursing process in the form of a feasibility study, business plan, or change project to improve patient care, patient outcomes, or work design. As such, students are responsible for identifying the need for the project, driving and restraining forces for the project,

an implementation plan, a budget, a timeline, and evaluation criteria to assess project outcomes. Prerequisites: All program courses. CGN 5999 must be taken at the end of the program.

**CGN 6110 – Pathophysiology (4 units)**

This course focuses on alterations in the function of human systems over the lifespan. The content will include cardiovascular, respiratory, renal, gastrointestinal, respiratory, endocrine and nervous systems, and the processes of metabolism and homeostasis. Students will compare normal body functioning to the physiologic changes associated with disease, as well as compensatory responses.

**CGN 6140 – Pharmacology (3 units)**

This course integrates pharmacology and pathophysiological applications using a systems approach. Topics include drugs and classifications, mechanism of actions, side effects, drug interactions, and monitoring of drug therapies.

**CGN 6160 – Introduction to Research (2 units)**

This course focuses on the process of research and its role within the profession of nursing. Students will explore research methodology, use of evidenced based medicine and analysis and critique of published research.

**CGN 6201 – Health Assessment (3 units)**

This course will focus on theoretical concepts of physical assessment, health history, cultural, psychosocial, and nutritional assessment for individuals across the lifespan.

**CGN 6202 – Clinical Practicum: Health Assessment (1 unit)**

This course consists of clinical laboratory exercises and experiences to develop psychomotor, perceptual and critical thinking skills for health assessment. Students will develop skills in history taking, physical examination techniques, and documentation of client assessments in client records.

**CGN 6301 – Professional Nursing Role (1 unit)**

This course explores the historical, political, social, cultural, educational, and economic factors that have influenced the advancement of the profession of nursing. In addition, current professional issues will be explored.

**CGN 6410 – Nursing Fundamentals (3 units)**

Foundational nursing concepts, skills and techniques are introduced in this course. This course is designed to assist the student to develop critical thinking abilities utilizing the nursing process in the roles of communicator, caregiver, and teacher. Students will learn principles of professional nursing practice and the application of selected fundamental skills including therapeutic communication, maintaining a safe and hygienic environment, assessing vital signs medical asepsis and infection control, principles of body mechanics and mobility, basic gastrointestinal and genitourinary care, oxygen therapy and airway management, calculation of drug doses, medication administration via oral, topical, subcutaneous, and intramuscular routes, and initiation and maintenance of intravenous fluid.

**CGN 6411 – Clinical Practicum: Nursing Fundamentals (2 units)**

Students will apply theory, critical thinking, and the nursing process to gain mastery of selected fundamental skills through practice and return demonstration of simulated clinical experiences in the learning resource laboratory. Clinical experience in selected sub-acute or skilled nursing facilities will provide opportunities to utilize the nursing process and fundamental skills in patient care.

**CGN 6501 – Nursing of Adults and Older Adults I (4 units)**

This course focuses on acute and chronic health problems of the adult and older adult. Emphasis will be placed on selected physiological processes, pharmacotherapy, developmental theories and human responses to illness.

**CGN 6502 – Clinical Practicum: Nursing of Adults and Older Adults I (4 units)**

Using hospitals and long term care facilities, students will develop the psychomotor and critical thinking skills to provide nursing care. Students will integrate developmental theories and the roles of communicator, caregiver, advocate, and teacher as students care for adult and older adult clients in the clinical setting.

**CGN 6551 – Nursing of Adults and Older Adults II (4 units)**

This course focuses on complex health problems of the adult and older adult. Emphasis will be placed on selected physiological processes, developmental theories and human responses to illness of adults and older adults with emergent and complex health problems.

**CGN 6552 – Clinical Practicum: Nursing of Adults and Older Adults II (4 units)**

This course will be a clinical practice to further develop psychomotor and critical thinking skills in the care of adults and older adults. The roles of communicator, caregiver, advocate, teacher and coordinator of care will be emphasized for clients with complex health problems.

**CGN 6601 – Mental Health Nursing (2 units)**

This course will focus on clients with psychosocial problems, mood disorders, and mental health diseases. Psychiatric concepts, neurophysiology, interventions and the nursing role will be discussed.

**CGN 6602 – Clinical Practicum: Mental Health Nursing (2 units)**

This course will be a clinical practice designed to develop critical thinking, communication skills and nursing interventions when caring for clients with identified psychosocial and mental health issues.

**CGN 6710 – Obstetric Nursing (2 units)**

This course will focus on the theory and application of nursing process and nursing roles related to the care of women and childbearing families of diverse psychosocial and cultural backgrounds. Family systems theory, development theories and the nursing process will serve as the organizing framework for this group of clients. Employing established standards, students will gain knowledge and apply essential principles for professional roles and nursing practice in the care of childbearing women, families, and newborns. Students are expected to apply the theoretical concepts in the clinical setting.

**CGN 6711 – Clinical Practicum: Obstetric Nursing (2 units)**

Clinical practice to develop critical thinking, psychomotor and communication skills will provide students with opportunities to develop competence in the care of childbearing women, families, and newborns. The roles of communicator, caregiver, advocate, and teacher are emphasized.

**CGN 6720 – Pediatric Nursing (2 units)**

This course will focus on the theory and application of nursing process and nursing roles related to the care of children and the families that care for them. Family systems theory, developmental theories, vulnerable population theory and the nursing process will serve as the organizing framework for this group of clients. Employing established standards, students will gain knowledge and apply essential principles for professional roles and nursing practice in the care of children and their families within a culturally-diverse population. Students are expected to apply the theoretical concepts in the clinical setting.

**CGN 6721 – Clinical Practicum: Pediatric Nursing (2 units)**

Clinical practice to develop the psychomotor, critical thinking and communication skills will provide students with the opportunities to develop competence in the care of pediatric patients and their families. Emphasis will be placed on the integration of classroom knowledge and clinical practice as students continue to develop their roles of caregiver, care coordinator, communicator, advocate, and teacher for pediatric clients and their families in the clinical setting.

**CGN 6801 – Leadership and Management in the Clinical Setting (2 units)**

This course provides an overview of contemporary leadership and management theories. Using the context of the management process, learners are introduced to the planning, organizing, and staffing phases of the management process. Emphasis is given to issues common to first and middle level managers including strategic planning, planned change, time management, organizational structure, power, authority and power in organizations, and staffing models. Various modes of inquiry, including nursing process, problem-solving models, and decision making tools are emphasized. Organizational theory, management theories, leadership theories, behavioral theories, and communication strategies are emphasized.

**CGN 6802 – Clinical Practicum: Leadership and Management (3 units)**

This clinical course provides an opportunity for students to integrate leadership and management principles at the clinical level.

**CGN 6803 – Leadership and Management in the Clinical Setting for the ADN (2 units)**

This course is an online version of CGN 6801, developed for the ADN/RN student that provides an overview of contemporary leadership and management theories. Using the context of the management process, learners are introduced to the planning, organizing, and staffing phases of the management process. Emphasis is given to issues common to first and middle level managers including strategic planning, planned change, time management, organizational structure, power, authority and power in organizations, and staffing models. Various modes of inquiry, including nursing process, problem-solving models, and decision making tools are emphasized. Organizational theory, management theories, leadership theories, behavioral theories, and communication strategies are emphasized.

**CGN 6804 – Clinical Practicum: Leadership and Management for the ADN (1 unit)**

This clinical course provides an opportunity for ADN/RN students to integrate leadership and management principles at the clinical level.

**CGN 6901 – Community Health Nursing (2 units)**

This course focuses on the nursing care and health promotion of individuals, families, groups and communities. The health of the community and subgroups within the community are the focus of this course. Students will apply nursing and public health concepts to promote health, prevent disease, and restore the health of population groups.

**CGN 6902 – Clinical Practicum: Community Health Nursing (2 units)**

This course will be a clinical practice to develop critical thinking, psychomotor and communication skills in the care and health promotion of individuals, families and groups. The roles of communicator, caregiver, teacher, advocate and manager of care are emphasized.

**CGN 6903 – Community Health Nursing for the ADN (2 units)**

This course is an online version of CGN 6901, developed for the ADN/RN student that focuses on the nursing care and health promotion of individuals, families, groups and communities. The health of the community and subgroups within the community are the focus of this course. Students will apply nursing and public health concepts to promote health, prevent disease, and restore the health of population groups.

**CGN 6904 – Clinical Practicum: Community Health Nursing for the ADN (2 units)**

This course, for ADN/RN students, will be a clinical practice to develop critical thinking, psychomotor and communication skills in the care and health promotion of individuals, families and groups. The roles of communicator, caregiver, teacher, advocate and manager of care are emphasized

**CGN 7540 – Leadership and Management Practicum/Seminar (1 unit; CR/NCR)**

This course is designed to provide students with opportunities to apply administrative theory, leadership theory, and management principles and processes in a selected health agency. Roles and functions of the nurse in management, patient safety, and quality care are explored. The roles and functions of the nurse manager will be guided by ANA's Scope and Standards of Nurse Administrators and the AONE nurse manager competencies.

**CGN 7541 – Leadership and Management Practicum (1 unit per semester, repeatable; CR/NCR)**

This course implements and integrates roles and functions of the nurse in management. The student will synthesize content and concepts from concurrent courses in the organizational setting. In the third practicum the student will complete a self-evaluation of their attainment of the AONE competencies and the ANA's Scope and Standards for Nurse Administrators.

**CGN 7550 – RN Clinical Seminar (1 unit; CR/NCR)**

This seminar class provides the opportunity for students to discuss experiences and issues related to their new professional nursing role.

**CGN 7560 – CNL Clinical Experience/Seminar (1 unit; CR/NCR)**

The first unit for the CNL clinical experience will prepare the student for the clinical immersion experience. Students will familiarize themselves with the CNL curriculum, role expectations, and the required competencies to become certified as a CNL. Students will be required to identify the clinical agency, preceptor, and unit for the clinical experience. A contract must be in place between CGN and the clinical agency prior to beginning the clinical experience.

**CGN 7561 – CNL Clinical Experience (1-3 units per semester, repeatable; CR/NCR)**

The course is designed to provide students with opportunities to develop the skills needed as a Clinical Nurse Leader. Clinical hours will include project based practicum experiences to provide application to theory courses and a preceptorship clinical immersion experience in the last semester of the program.

**CGN 7570 – Clinical Experience (1-6 units per semester; repeatable; CR/NCR)**

This course is designed to provide students with progressive opportunities to develop and refine the clinical skills needed to succeed as a Family Nurse Practitioner. Over the course of the MSN/FNP or FNP-Only program, students will be expected to integrate their undergraduate nursing education, previous clinical experience, and concurrent learning to achieve advanced practice nursing clinical objectives appropriate for diverse and complex patients over the life span.

**CGN 8001: Fundamentals for Nurse Educators: Pedagogical Design, Implementation, and Evaluation (3 units) (required for NFLP students)**

An examination of teaching and learning theory, the role of the nurse educator, the learning environment, curriculum development, and instructional design and evaluation for the classroom, simulation lab, and clinical practicum. Components and expectations of the academic workplace are also examined.

**CGN 8002: Evidence and Innovation in Nursing Education (3 units) (required for NFLP students)**

Focuses on the use of educational evidence, innovation for teaching and learning, and education continuous quality improvement. Topics include teaching in complex setting such as multicultural and multigenerational classrooms, educational technology, distance learning, and educational scholarship.

**CGN 8010 – Philosophy and Science for Nursing Practice (3 units)**

This course focuses on an examination of the philosophical and scientific foundations which reflect the complexity of practice at the doctoral level including the development of nursing science and the phenomenon of concern to nursing practice; the principals of the biology of human structure, function and disease; behavioral and population science, including vulnerable populations; and middle range theories which support practice.

**CGN 8020 –Quality and Leadership in the 21<sup>st</sup> Century Health Care System (3 units) (with clinical hours)**

This course focuses on an examination of safety and quality improvement and cost effectiveness for clinical practice. Includes principals of business planning, business finance, health law, organizational theory, care delivery models, risk management, negotiation, and leadership especially with the care of vulnerable populations. Examines nursing's leadership role in shaping the health care system of the future.

**CGN 8030 –Clinical Scholarship, Research, and Evidence-Based Practice (3 units) (with clinical hours)**

This course focuses on an examination and strategies for clinical scholarship and research methods for critique and literacy focusing on epidemiology and evidence-based practice. Includes data base and policy development, databases evaluation, and quality and practice improvement. Includes population based research methods, outcome analysis techniques, and participative research.

**CGN 8040 –Transformational Information Systems for Health Care (3 units) (with clinical hours)**

This course focuses on an examination of information and technology systems which support research for evidence-based practice, quality improvement, outcome evaluation, best practices, management, and education. Principals for selecting and evaluating information systems, and the ethical, regulatory, and legal issues which surround information technologies.

**CGN 8050 –Social Justice, Health Care Advocacy, and Policy in Nursing Practice (3 units)**

This course examines nursing's role in the care of underserved and vulnerable populations. Includes concepts of social justice, health care advocacy, and policy formation and implementation. Examines the structure and function of legislative and regulatory organizations, governance, public relations, and global health care issues.

**CGN 8060 –Outcome Based Collaboration and Collaborative Models (3 units) (with clinical hours)**

This course examines the role, scope, practice, and culture of different health care professions with a focus on building multidisciplinary and interprofessional collaborative teams. Collaborative communication patterns and synergistic decision making will be examined in the context of the interprofessional dimensions of health care and health care organizations focusing on the care of vulnerable populations.

**CGN 8070 –Population Based Prevention in Vulnerable Populations (3 units) (with clinical hours)**

This course examines comprehensive surveillance, prevention, and health promotion approach with underserved and vulnerable populations based on community health and vulnerable population theory. Focuses on the use of epidemiological, biostatistical, environmental, geographic, genetic, behavioral, and socioeconomic data to design, develop, and implement interventions to improve health care access and address gaps in care.

**CGN 8080 –Care Delivery Improvement: Models and Strategies (3units) (with clinical hours)**

This course focuses on outcome measurement with individuals, families, populations, including vulnerable populations, and organizations within traditional and innovation care delivery models and settings, using clinical epidemiology and reasoning, systems for leveling evidence, and ethics. Also included are the development of strategies and protocols that reflect nursing's accountability and the highest level of nursing care.

**CGN 8090– Clinical Project (3 units per semester for a total of 6 units, CR/NCR) (with clinical hours)**

This course focuses on the completion of a clinical immersion experience and independent evidence-based project in a vulnerable population which provides an illustration of the essential competencies of the practice doctorate.

## **Academic Calendar**

Items in bold require on-campus attendance for students in those programs.

*Always refer to the CGN website under current students for the most current calendaring.*

<b>Fall Semester Begins MSN-E 1<sup>st</sup> year (Incoming students)</b>	<b>August 16, 2010</b>
Fall Semester Classes Begin - All students	August 23, 2010
<b>Seminar Weekend #1 - Distance students (week 3)</b>	<b>Sept 10-12, 2010</b>
<b>Seminar Weekend #1 – ADN/MSN students (week 3)</b>	<b>September 10-11, 2010</b>
<b>Seminar Weekend #1 - DNP students (week 3)</b>	<b>September 12, 2010</b>
<b>Seminar Weekend #2 - Distance students (week 9)</b>	<b>October 22-24, 2010</b>
<b>Seminar Weekend #2 – ADN/MSN students (week 9)</b>	<b>October 22-24, 2010</b>
<b>Seminar Weekend #2 - DNP students</b>	<b>October 24, 2010</b>
Fall Semester Ends (All students)	November 26, 2010
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Spring Semester Begins	January 5, 2011
<b>Seminar Weekend #1 - Distance students (week 5)</b>	<b>February 4-6, 2011</b>
<b>Seminar Weekend #1 – ADN/MSN students (week 5)</b>	<b>February 4-5, 2011</b>
<b>Seminar Weekend #1 - DNP students (week 5)</b>	<b>February 6, 2011</b>

<b>Seminar Weekend #2 - Distance students (week 10)</b>	<b>March 11-13, 2011</b>
<b>Seminar Weekend #2 – ADN/MS students (week 10)</b>	<b>March 11-12, 2011</b>
<b>Seminar Weekend #2 - DNP students (week 10)</b>	<b>March 13, 2011</b>
Spring Break Begins (All students)	March 21, 2011
Spring Break Ends (All students)	March 27, 2011
Spring Semester Ends (All students)	April 15, 2011
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Summer Semester Begins	April 25, 2011
Commencement – Graduating Students	May 19, 2011
<b>Seminar Weekend #1 – All Graduating Students</b>	<b>May 20, 2011</b>
<b>Seminar Weekend #1 – All Distance students</b>	<b>May 20-22, 2011</b>
<b>Seminar Weekend #1 – ADN/MSN students</b>	<b>May 20-21, 2011</b>
<b>Seminar Weekend #1 – DNP Students</b>	<b>May 22, 2011</b>
Summer Break Begins	June 13, 2011
Summer Break Ends	June 19, 2011
<b>Seminar Weekend #2 - Distance students (week 10)</b>	<b>July 8-10, 2011</b>
<b>Seminar Weekend #2 – ADN/MSN students (week 10)</b>	<b>July 8-9, 2011</b>
<b>Seminar Weekend #2 - DNP students (week 10)</b>	<b>July 10, 2011</b>
<b>MSN/FNP, ADN Preprogram Begins - Incoming students</b>	<b>August 1, 2011</b>
<b>All Incoming Students Welcome Week/Orientation</b>	<b>August 2-6, 2011</b>
<b>MSN/FNP Preprogram Seminar - Incoming students</b>	<b>August 2-6, 2011</b>
Summer Semester Ends - All continuing students	August 5, 2011
Preprogram Ends - Incoming students	August 19, 2011
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# **GRADUATE COLLEGE OF BIOMEDICAL SCIENCES**

## **Master of Science in Biomedical Sciences**

### **PROGRAM GOALS**

To train post-graduate students in the principles and experimental methodologies of biomedical science as they relate to human and animal health and disease. Graduates will develop the requisite critical thinking skills and knowledge to satisfy a goal of becoming leaders in biomedical research, in academics, or biomedical technology.

### **PROGRAM OVERVIEW**

A minimum of 40 semester credit hours is required for completion of the MS program. This includes 20 credit hours of core courses. The program emphasizes research in the biomedical sciences in core courses, electives and thesis.

### **PROGRAM FACULTY**

Program faculty is from the College of Osteopathic Medicine, Veterinary Sciences, Pharmacy, Dental Medicine, Optometry and Podiatry. Their areas of research emphasis include pharmacology, molecular biology, microbiology, biochemistry, immunology, neuroscience, anatomy and physiology.

### **APPLICATION AND ADMISSIONS REQUIREMENTS**

Applicants must possess a Bachelor of Science degree with strong science component.

Minimum criteria to receive consideration for admission follow. Meeting these criteria, however, does not guarantee admission into the program.

- A completed Western University of Health Sciences Graduate Application form (including all supplemental information for international applicants).
- Official transcripts of all undergraduate and graduate coursework with an overall GPA of 3.0 or greater on a 4-point scale.
- Official test scores for the general aptitude portion (verbal, quantitative, and analytical) of the Graduate Record Examination (GRE) taken within the last five (5) years, with a score of greater than or equal to 1000 on the combined verbal and quantitative.
- Three letters of reference from individuals familiar with the applicant's scholarship and research potential.

#### **Application Deadline:**

Applications must be received (including all supporting application materials) no later than March 1 for the fall semester (August). Completed applications that arrive before the deadline may be considered on a rolling basis.

#### **Transfer Credit**

A maximum of 10 graduate credits in which the student has earned an "A" from an equivalent program from another university will be honored towards the MS in Biomedical Sciences for students transferring into Western U. The Dean of GCBS must approve all transfer credit, and the decision of the Dean is final.

#### **TUITION AND FEES**

In estimating costs for one academic year of study at Western University of Health Sciences' MS-BS program, you should include tuition and fees, laptop computer and printer, books and supplies, room and board, and other miscellaneous expenses. Actions of the Board of Trustees setting tuition and fees for the academic year are established during the previous spring term. The most current tuition and fees are as follows (subject to change):

- Tuition - \$631 per credit hour in 2010-2011 Academic Year.
- Other Mandatory fees specific to the College of Biomedical Sciences will be provided separately.
- Application Fee - Non-refundable \$50 fee for those applying to the Western University MS-BS program.

Other Fees

\$200	Graduation Fee (assessed on candidates for graduation only)
\$400	(annual) Western University Parking Permit Fee (Optional)
\$30	(per day) Late Registration Fee
\$40	Lost Mail Locker Key
\$6	(each) Copy of Official Transcript

\$21	(each) Rush Transcript, First Class Mail
\$25	(each) Rush Transcript, Federal Express
\$10	Lost ID Badge
\$0.25 (per page)	Copy of Student File Material
(replacement cost)	Breakage Fee

## FINANCIAL SUPPORT

Financial support, which includes a stipend and full payment of tuition, is available to qualified applicants on a limited, competitive basis in the form of teaching and research assistantships. Support is for 12 months (including summers) and is limited to a total of two consecutive years for any student.

Students may also receive a travel stipend, which allows for travel to a national meeting.

## ACADEMIC POLICIES AND PROCEDURES

### Program Outcomes

1. **Critical Thinking:** The MS-BS graduate will be able to identify and understand critical issues in biomedical sciences. They should possess the ability to challenge and evaluate information using evidence-based research principles, as well as synthesize and integrate knowledge in the discipline, leading to new ideas, approaches and research.
2. **Breadth and Depth of Knowledge:** The MS-BS graduate will understand the current and historical theories, concepts, and models of biomedical sciences. They should possess the ability to access and evaluate the literature of the discipline and understand the major issues in the current state of knowledge. They should also possess an ability to transcend traditional disciplinary boundaries and effectively conduct original, discovery-based or applied research in biomedical sciences under the direct guidance of a faculty member.
3. **Interpersonal Skills:** The MS-BS graduate will possess the ability to write and speak about the current issues of biomedical sciences to peers, practitioners and the public. They should be able to articulate and demonstrate knowledge of the discipline and write and present scholarship to professionals.
4. **Collaboration Skills:** The MS-BS graduate will be able to collaborate with other members of the research team, with colleagues (both within the discipline and across related disciplines), and if appropriate, with other communities of interest in the conduct of a research program.
5. **Ethical and Moral Decision Making (Humanistic Skills):** The MS-BS graduate will understand and exhibit the professional standards for responsible and ethical conduct of research in pharmaceutical sciences.
6. **Life-Long Learning:** The MS-BS student should be able to engage in life-long, self-directed learning to maintain and expand competence in the discipline, including staying abreast of current issues, methods and approaches in biomedical sciences.
7. **Evidence-Based Research:** The M-BPS student will have a solid grounding in the literature pertaining to a particular question and be able to understand and appropriately use the methods and techniques of advancing knowledge in their field of study. They should be capable of designing, working within, and coordinating multi-disciplinary research programs.

### Attendance and Absences

Attendance is required at all scheduled instructional periods. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during the periods missed.

### Vacation and Emergencies

Students receive two weeks' vacation each year over the Christmas break. Students may not expect to take more time than this, may not leave early or return late from the break. Vacations are not provided during academic semesters. Summers are the optimal time for focused research effort and as such no vacation time is allowed for this period. Under special circumstances, a student may arrange a brief 1 -3 days off at the discretion of the program chair director and their faculty supervisor in advance. It is the Dean's and faculty supervisor's prerogative whether to grant the time off and is not guaranteed. Students should not enter the program with the expectation of taking time off for other pursuits (i.e., interviews for other programs, leaving the country, hobbies, etc.)

Emergencies, including medical problems or serious personal/family issues, which result in less than 15 academic days (3 calendar weeks) away from campus, may be granted upon approval by a student's faculty mentor, in

conjunction with the Dean, GCBS. Any missed course material is the responsibility of the student, and students may be required to complete alternative assignments, at the discretion of course faculty.

Students with emergencies resulting in more than 15 academic days (3 calendar weeks) away from campus must apply in writing for a Leave of Absence to the appropriate Academic Dean or his/her designee. Please see the University Catalog's "General Academic Policies and Procedures" for more specific information on a Leave of Absence.

### **Faculty Advisor and Thesis Advisory Committee**

The faculty advisor serves as the Chair of the student's Thesis Advisory Committee and helps the student in his/her choice of electives and research projects/thesis topic. Further, the advisor may also assist the student in obtaining a research assistantship if funds are available. The Chair is responsible for the satisfactory academic progress of the student, and must hold committee meetings with the student on a regular basis.

The thesis advisory committee consists of at least three faculty members (the faculty advisor plus two other faculty members). The Chair and at least two of the committee members must be full time faculty at the Western University of Health Sciences. Upon approval by the Dean, GCBS, a fourth member from within Western University of Health Sciences may be eligible for appointment to the committee.

### **Thesis**

The thesis will be based on a research project that the student will undertake during the MS program. The faculty advisor will help the student select a topic and mentor the student in his/her progress.

MS candidates are required to present a written report of the thesis and present it to the thesis advisory committee for approval. In addition, students will be required to defend their thesis via an oral presentation for the content at the end of their program. The oral defense may also include questions based on the required course work completed by the student. The defense committee will consist of the thesis committee and an external member from within the Western University of Health Sciences faculty whose role will be to ensure that the defense is conducted fairly.

All candidates must pass a comprehensive examination covering the major and minor field, as well as the research and thesis. This usually is a two-hour oral examination. Members of the university faculty not on the thesis advisory committee may attend any oral examination as visitors. The faculty advisor will schedule the oral examination not later than the date of the deadline set by the Dean, GCBS. Successful completion requires the unanimous support of all members of the thesis advisory committee. If a student fails the oral examination, one re-examination may be accorded the student based on its recommendation by the thesis advisory committee and approval by the Dean, GCBS. Further re-examinations may be allowed only under exceptional circumstances and only with the approval of the Dean, GCBS.

Upon satisfactorily passing all exams, students are to provide 7-8 professionally printed copies of their thesis for: their committee members (3-4), the department (1 copy), the Dean's Office (1 copy) and the university library (2 copies).

A fee will be charged to the student for microfilming their thesis.

### **Grading System**

Official grades are turned in to the Registrar from the College of Pharmacy Dean, at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available on the BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at <http://www.westernu.edu/registrar>.

Western University of Health Sciences makes use of letter grades, which may include a plus/minus (+/-) system of grading. The MSBS program makes use of letter grades only. A four-valued letter grade scale will be given, indicating:

Grade		Quality Points	
A	-	Excellent	4
B	-	Good	3
C	-	Satisfactory	2
U	-	Unsatisfactory	0
I	-	Incomplete	0
Au	-	Audit	0
W	-	Withdrawal	0
M	-	Missing	0

CR -	Credit	0
NCR -	Non-credit	0

Courses are rated at one semester hour for each 12 contact hours. The grade point average is calculated at the end of each semester as the sum of earned grade points divided by the sum of semester hours passed and failed. A cumulative grade point average will be calculated and posted on the transcript.

No grade will be changed unless the instructor certifies in writing that an error in computing or recording the grade has occurred or that the student has completed course requirements for an Incomplete grade or remediated an Unsatisfactory grade.

### **Withdrawing from Courses**

Courses may be dropped without academic penalty on or before end of the third week of the semester. A course may be dropped after the third week of the semester only under unusual conditions. When the Department Chair approves dropping the course under such circumstances, a "W" will be assigned for the course.

### **Incomplete**

An Incomplete grade ("I") will only be assigned to students whose professional commitments and/or personal responsibilities prevent him or her from completing the requirements of the course. A student may remove an incomplete by completing course requirements within the following six calendar months or the final grade will be permanently recorded as a "U". This rule applies regardless of the student's enrollment status. A student not enrolled during the following six months must still successfully remove the "I" grade. The instructor must certify any grade changes. The I grade will remain on the student's transcript, along with the final grade assigned by the instructor.

### **Academic Standing**

Only grades in Western University of Health Sciences courses approved for graduate credit will be used in determining the overall grade point average for continuation in the MSBS program. If, at the end of any semester, the cumulative grade point average falls below 3.0, the student will be placed on academic probation, and financial support will be discontinued. A 2.0 (C) grade earned in any class may be applied toward graduation only if the overall grade point average at the time of application for graduation continues at a minimum 3.0 (B) cumulative grade point average. Any grade below a 2.0 (C) may not be applied toward graduation.

### **Dismissal**

If the cumulative grade point average remains below a 3.0 after the student completes a total of 9 (nine) graded credit units subsequent to being placed on academic probation, the student will be dismissed from the program. The student may be readmitted only after completion of a remediation plan recommended by the Thesis Advisory Committee. No course work taken as part of the remediation plan will be counted toward the MSBS degree or incorporated into the student's cumulative grade point average. Graduate level courses for which grades below "C" were earned may not be repeated during the remediation period.

### **Standards of Academic and Professional Conduct: GCBS Honor Code**

Honesty and integrity are among the most valued traits of academic researchers and health-related scientists. Each student is expected to assume personal responsibility for those traits. Academic dishonesty includes cheating, plagiarism, using unauthorized resources during examination(s), sabotaging other students and mentors research as well as and signing another person's name to an attendance or examination document. Matters of academic dishonesty and professional misconduct will be handled consistently with the University's guidelines for Hearings involving alleged violations of the standards of professional conduct as described in the University's General Academic Policies and Procedures. ANY INDIVIDUAL WHO WITNESSES OR BECOMES AWARE OF A POSSIBLE VIOLATION OF THE HONOR CODE IS BOUND TO REPORT THE INCIDENT. STAFF OR STUDENTS MUST REPORT THE INCIDENT TO A FACULTY MEMBER AND FACULTY MEMBERS MUST REPORT THE INCIDENT TO THE DEAN, GCBS.

Upon receipt of an allegation of misconduct, the Dean, GCBS will either address the matter directly or will appoint an ad hoc committee of the Faculty and student(s) of the program to investigate the allegation and forward a recommendation on a course of appropriate action to the Dean, GCBS. Potential sanctions could include placing the student on probation, require the student to undertake specific remedial activities, suspension for a defined period of time, or dismissal from the program. Decisions of the Dean in matters of conduct may be appealed following the procedure outlined in the Overview section of this Catalog.

## **Graduation Requirements**

For successful completion of the MSBS program, the faculty of the Graduate College of Biomedical Sciences has established guidelines and requirements in addition to the courses and optional requirements listed above. Minimum requirements for graduation with an MS include:

- a. A minimum grade of 2.0 in each graduate course taken as part of the program.
- b. Overall 3.0 GPA of course work taken in the program
- c. Satisfactory completion and oral defense of a written thesis as well as satisfactory completion of all approved coursework.
- d. Attendance at the commencement ceremony during which time the degree will be awarded.  
Requests to be excused from this requirement must be submitted in writing to the President and approved subject to whatever additional stipulations the President shall make.
- e. All financial and other obligations to the University have been met.

No student may graduate until all "I" (incomplete) and "M" (missing) grades are removed, and the removal must be completed at least three weeks before the date of graduation, regardless of whether the course is included on the student's Plan of Studies

The program of studies must be completed within a minimum of two and a maximum of three calendar years.

## **PROGRAM DESCRIPTION**

To graduate, students must complete a minimum of 40 credit hours, including 20 credit hours of the six core courses, 14 credit hours of Electives, and 6 credit hours of Research and Thesis.

### **Required Courses**

GCBS 5040	Molecular and Cellular Basis of Life	4 credits
GCBS 5060	Introduction to Biotechnology	2 credits
GCBS 5080	Biological Systems in Human Disease I	2 credits
GCBS 5081	Biological Systems in Human Disease II	2 credits
GCBS 5085	Research Laboratory Rotations	4 credits
GCBS 5090	Biomedical Statistics and Research Design	2 credits
GCBS 6999	Thesis	2-6 credits

### **Elective Courses**

GCBS 6000	Graduate Seminar	2 credits
GCBS 6201	Advanced Topics in Pharmacology	2 credits
GCBS 6301	Advanced Topics in Virology	2 credits
GCBS 6302	Advanced Topics in Genetics	2 credits
GCBS 6401	Advanced Topics in Structural Biology	2 credits
GCBS 6501	Advanced Topics in Neurobiology	2 credits
GCBS 6601	Specialty Research Experience	2-4 credits
GCBS 6701	Directed Reading	1-5 credits

## **COURSE DESCRIPTIONS**

### **GCBS 5040 Molecular and Cellular Basis of Life                  4 credit hours (Graded)**

This course covers a wide range of topics in molecular and cellular basis of life. The goal of this course is to provide an integrative view of the general principles in molecular biology, genomics, biochemistry, cellular physiology, metabolism and basic histology.

### **GCBS 5060 Introduction to Biotechnology                  2 credit hours (Graded)**

This course will provide theoretical knowledge, hands-on laboratory experience and practical computer skills necessary and sufficient to start practical work in biotechnology projects.

### **GCBS 5080 Biological Systems in Human Disease I                  2 credit hours (Graded)**

The purpose of this course is to provide the first year biomedical graduate student with a comprehensive foundation in the biological systems and related human diseases. The primary goal of this course is to provide an integrative view of the general principles in systems biology. A secondary goal is to foster student-centered learning

skills and the confidence to pursue self-directed study using a variety of academic and scientific resources including textbooks, primary literature, review papers, and scholarly online databases. The course is structured with four blocks, each of which consists of three consecutive weeks of instruction followed by a week assessment. The 16<sup>th</sup> weeks of the course will consist of an assessment of critical thinking and knowledge, and application skills. During each instruction week, students will be expected to use a variety of resources to master the course material. In order to foster self-directed learning, some resources will be provided or recommended by the course instructor, and additional resources must be identified by the student. This provides an opportunity for students to delve deeper into areas that particularly interest him while simultaneously providing a learning environment that allows students with different academic backgrounds to develop a core set of knowledge and skills.

**GCBS 5085 Research Laboratory Rotations                          4 credit hours (Graded)**

This rotation provides students with a research experience. The student will learn principles of experimental design and good laboratory practices. Early in the rotation, the student will develop a specific hypothesis and design a protocol to test the hypothesis. The student will maintain a laboratory notebook, documenting the procedures and assays that are performed on a daily basis, as well as define and explain the scientific questions that each assay is addressing and the underlying mechanisms by which the assay operates. Depending upon the rotation, the student may participate in laboratory meetings, seminars, and/or journal clubs. At the end of the rotation, the student will prepare a one-page summary of their research experience, which will be written in abstract form that contains both a title and an author(s) section, with the body of the abstract addressing the background, objectives, methods, results, and conclusions of the experience. Additionally, a four-to-five page technical summary of the research experience will be prepared. This document is to be written in manuscript format, including an abstract (same as above), introduction, methods, results, and conclusions/discussion sections.

**GCBS 5081 Biological Systems in Human Disease II                          2 credit hours (Graded)**

The course is designed to provide the first year biomedical graduate student with a comprehensive foundation in biological systems, microbial pathogens and the immune response. The primary goal of this course is to provide an integrative view of the general principles of systems biology, microbiology and immunology.

**GCBS 5090 Biomedical Statistics and Research                          2 credit hours (Graded)**

This course will cover various topics in descriptive and inferential statistics intended to introduce the student to the theoretical and practical aspects of statistics in research. Various topics will include central tendency, variability, hypothesis testing, multi-factorial analysis of variance, trend analysis, regression analysis and correlation.

**GCBS 6000-6501** consists of a number of advanced topics courses offered in several biomedical disciplines. These courses may be seminar-style or lecture-based and/or may consist of problem-solving activities. The courses are designed to enhance the student's knowledge and understanding of specific disciplines at a more advanced level than is accomplished in the basic survey courses. No more than 6 units may be counted toward satisfaction of unit requirements for the MSBS degree.

**GCBS 6000 Graduate Seminar                          2 credit hours (Graded)**

Students will select a research paper and present it to faculty members and students enrolled in the MSBS program.

**GCBS 6201 Advanced Topics in Pharmacology                          2 credit hours (Graded)**

This advanced elective will address concepts and principles of neuronal identity and function that are germane to pharmaceutical sciences. Principles will be introduced followed by experimental applications. The course will integrate molecular, cellular, and behavioral concepts when applicable. Course topics include chemical and electrical transmission, neurotransmitter chemistry, neuroreceptor pharmacology and signal transduction mechanisms, structure and function of ion channels and ligand binding sites, synaptic plasticity with an introduction to electrophysiology. Relevant and recent primary literature articles will be introduced for reading and subsequent group discussion.

**GCBS 6301 Advanced Topics in Virology                          2 credit hours (Graded)**

Advanced discussions on topics in virology. Classes are organized around recent papers in the virological literature. Topics include HIV, hantavirus infection, prions, and the hepatitis viruses.

**GCBS 6302      Advanced Topics in Genetics      2 credit hours (Graded)**  
This course is designed to focus on how genetic and molecular mechanisms influence multiple aspects of biological life. The course will cover physical and chemical properties of genes, transmission mechanisms, and processes by which genes are manifested as physical characteristics in a whole organism. The control of gene expression is an important concept covered in this course.

**GCBS 6401      Advanced Topics in Structural Biology      4 credit hours (Graded)**  
This advanced elective will address concepts and principles of structural biology and immunology with an emphasis in molecular neuroimmunology. Topics will include cells, organs and effect tor systems involved in both cell-mediated and humoral-mediated immune activity. Time will be spent looking at regulatory interactions among different components of the immune system and the deleterious effects of aberrant immune processes. Principles will be introduced, followed by experimental applications. Relevant and recent primary literature articles will be introduced for reading and subsequent group discussion.

**GCBS 6501      Advanced Topics in Neurobiology      2 credit hours (Graded)**  
This advanced elective course will address concepts in neurobiology.

**GCBS 6601      Specialty Research Experience      2-4 credit hours (Graded)**  
Assigned laboratory experiences introducing students to the research techniques and protocols under the guidance of faculty members at the Western University of Health Sciences.

**GCBS 6701      Directed Readings      1-5 credit hours (Graded)**  
This course is an independent study course consisting of individualized readings in various topics in the biomedical sciences. Directed readings allow detailed study of topics pertinent to research encountered in laboratory rotations or subjects that are not otherwise addressed in the MSBS curriculum. The student will be expected to work with an instructor to develop a reading list and to define course objectives. No more than 10 units may be counted toward satisfaction of unit requirements for the MSBS degree.

**GCBS 6702      Advanced Biotechnology      4 credit hours (Graded)**  
This course covers advanced topics in biotechnology and their application in biomedical sciences.

**GCBS 6999      Thesis      1-5 credit hours (CR/NCR)**  
Completion of a thesis is mandatory for the Master of Science in Biomedical Sciences degree program. The thesis will be based on a research project that the student will work on during the MS-BS program. The faculty advisor (thesis advisor) will help the student select a topic and mentor the student in his/her progress. Students are expected to prepare a thesis proposal, attend regular meetings with course instructors and his/her thesis/faculty advisor. Submission and oral defense of the written thesis is required to complete the program. The last part of thesis defense included a comprehensive examination. Repeatable to a maximum of 6 credit hours.

**Academic Calendar 2010-2011**  
**MSBS PROGRAM**  
**(subject to change)**

Monday, Jul. 5, 2010  
Independence Day Observed

Monday, May 20, 2010  
Commencement

Saturday, Aug. 7, 2010  
Convocation/White Coat Ceremony

Monday, Oct. 11, 2010  
Columbus Day

Monday, Aug. 9, 2010  
Classes begin

Wednesday, Nov. 24, 2010  
Thanksgiving Recess – 5 pm

Monday, Sept. 6, 2010  
Labor Day

Monday, Nov. 29, 2010  
Classes Resume

Friday, December 17, 2010

End of Fall Semester

Monday, December 20, 2010

Winter Recess Begins

**2011**

Monday, January 3, 2011

Spring Semester Begins

Monday, Jan. 17, 2011

Martin Luther King, Jr. Day

Monday, Feb. 21, 2011

President's Day

Monday, Mar. 21, 2011

Spring Break Begins

Monday, Mar. 28, 2011

Classes resume

Monday, May 30, 2011

Memorial Day

# **GRADUATE COLLEGE OF BIOMEDICAL SCIENCES**

## **Master of Science in Medical Sciences**

### **ACCREDITATION**

Western University of Health Sciences is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC)-985 Atlantic Venue, Suite 100. Alameda, CA 94570. (510) 748-9001. Approval of the MS in Medical Sciences by the Western Association of Schools and Colleges occurred on June 18, 2010.

### **PROGRAM GOALS**

The Master of Science in Medical Sciences in the Graduate College of Biomedical Sciences (GCBS) will equip graduates with the critical evaluation skills necessary to implement evidence-based clinical practice and prepare qualified pre-health professional students who have obtained a baccalaureate degree in a unique rigorous inter-professional environment for successful application to professional programs, both external and internal.

### **PROGRAM OVERVIEW**

A minimum of 45 semester credit hours is required for completion of the MSMS program. This includes 28 hours of didactic study and 12 hours of clinical shadowing, research, small group case-based learning and laboratory leading to a thesis. The program emphasizes integration of biomedical science and research-based knowledge in clinical decision making. Courses, laboratory experiences, research and direct students towards integration of scientific knowledge, literature evaluation and clinical decision making, culminating in a capstone course, assessed by examination and final project.

### **PROGRAM FACULTY**

Program faculty has appointments in College of Osteopathic Medicine of the Pacific, Veterinary Medicine, Pharmacy, Dental Medicine, and College of Allied Health Professions, as well as accredited outside institutions of postsecondary education. Their areas of research emphasis include molecular biology, microbiology, biochemistry, immunology, neuroscience, anatomy, physiology and education.

### **APPLICATION AND ADMISSIONS REQUIREMENTS**

Applicants must possess a Bachelor of Science or Bachelor of Arts degree with strong science component. Minimum criteria to receive consideration for admission follow. Meeting these criteria, however, does not guarantee admission into the program.

- A completed Western University of Health Sciences Graduate Application form (including all supplemental information and secondary application material).
- Official transcripts of all coursework taken.
- Official test scores taken within the last five (5) years for one or more of the following:
  - the general aptitude portion (verbal, quantitative, and analytical) of the Graduate Record Examination (GRE)
  - Medical College Admissions Test (MCAT)
  - Dental Admission Test (DAT)
  - Optometry Admissions Test (OAT)
- Three letters of reference from individuals familiar with the applicant's scholarship, appropriateness for a health care profession, and research potential.

Application Deadline: April 15, 2010

Applications must be received (including all supporting application materials) no later than April 15, 2010. Completed applications that arrive before the deadline will be considered on a rolling basis.

### **Transfer Credit**

No transfer credit will be accepted

## **ADMISSION PREREQUISITES**

- a bachelor's degree with a strong science component
- at least a 2.5 overall grade point average
- Completion of the following undergraduate courses with a grade of C or better:
  - General Chemistry with laboratory (8 semester units)
  - Organic Chemistry with laboratory (8 semester units)
  - Introductory Biology with laboratory (8 semester units)
  - General Physics with laboratory (8 semester units)
  - English (6 semester units)
  - Behavioral Sciences (6 semester units)

Besides a strong academic record, we are looking to accept students who demonstrate the ability to integrate and disseminate information, who have outstanding communication and interpersonal skills and who demonstrate caring and empathy towards other people and experimental animals.

## **PROGRAM AT A GLANCE**

Degree .....	Master of Science in Medical Sciences
Application Fee .....	\$50.00
Classes Start .....	June 14, 2010
Nonrefundable Tuition Deposit.....	\$250.00
Annual Tuition.....	\$20,500.00

(Fees can be waived under certain circumstances. For more information please go to  
<http://prospective.westernu.edu/medical-sciences/apply.>)

\*(Applicable to the 2010 academic year and subject to change annually)

## **APPLICATION PROCESS**

Applications and detailed information on how to apply can be found at <http://prospective.westernu.edu/clinical-sciences/apply>. All applicants must submit the following directly to WesternU Admissions Office:

- WesternU-MSMSMS application
- GRE/MCAT/DAT/OAT
- TOEFL scores (for graduates of foreign universities)
- a personal statement
- a current résumé
- 3 letters of reference
- All college transcripts

## **REGISTRATION**

All students are required to register by the registration date specified in the University Calendar by the Registrar. Matriculation and graduation are subject to satisfactory completion of all academic requirements and payment of all outstanding debts to the University. Prior to registration, first-time matriculants must supply a final transcript(s), a physical examination with documentation of required immunizations and proof of health insurance coverage. The health insurance coverage must be in effect throughout the academic year. If there is no proof of current coverage, a policy provided by the University is available.

## **TUITION AND FEES**

In estimating costs for one academic year of study at Western University of Health Sciences' MSMS program, you should include tuition and fees, laptop computer and printer, books and supplies, room and board, and other miscellaneous expenses. Actions of the Board of Trustees setting tuition and fees for the academic year are established during the previous spring term. The most current tuition and fees are as follows (subject to change):

- Tuition - \$20,500 for 2010-11 Academic Year.
- Application Fee - Non-refundable \$50 fee for those applying to the Western University MSMS program.

### **Other Fees**

- \$200 Graduation Fee (assessed on candidates for graduation only)
- \$400 (annual) Western University Parking Permit Fee (Optional)
- \$250 Tuition Deposit Fee

- \$30 (per business day) Late Registration Fee
- \$40 Lost Mail Locker Key
- \$6 (each) Copy of Official Transcript
- \$21 (each) Rush Transcript, First Class Mail
- \$25 (each) Rush Transcript, Federal Express
- \$10 Lost ID Badge
- \$0.25 (per page) Copy of Student File Material  
(replacement cost) Breakage Fee

## **FINANCIAL SUPPORT**

Financial support, which includes partial or full payment of tuition, is available to qualified applicants on a limited, competitive basis.

## **FINANCIAL AID**

A graduate education is more important than ever today, yet paying for one can be a challenge. The key to obtaining financial aid is to start the process early. Applicants should first look into grants, scholarships and other student aid, which do not require repayment. Military and veteran benefits are other avenues to finance your education. Educational loans, whether from federal or private sources, can also help you achieve your goals. Please visit our Web site at [www.prospective.westernu.edu](http://www.prospective.westernu.edu) for further information.

## **ACADEMIC POLICIES AND PROCEDURES**

Institutional and Program specific learning outcomes are listed below with attributes.

<b>Western University Institutional Student Learning Outcomes</b>	<b>Health Professional Education</b>
<b>1. Critical Thinking and Clinical Reasoning</b>	Identify and solve problems that require the integration of multiple contexts when applying patient care.
<b>2. Diagnosis, Management &amp; Prevention/Clinical Competence</b>	Demonstrate diagnostic and therapeutic skills and apply relevant information to patient care and practice, and to educate patients regarding prevention of common health problems.
<b>3. Interpersonal and Effective Communication Skills</b>	Demonstrate effectively interpersonal skills that enable them to establish and maintain therapeutic relationships with patients and other members of the health care team.
<b>4. Collaboration Skills</b>	Demonstrate collaboration with clients and with other health professionals to develop a plan of care to achieve patients' positive health outcomes,
<b>5. Ethical &amp; Moral Decision Making Skills</b>	Demonstrate the highest quality of care, governed by ethical principles, integrity, honesty and compassion.
<b>6. Humanistic, Caring and Compassionate Care</b>	Practice compassionate care
<b>7. Life Long Learning</b>	Engage in life-long, self-directed learning to validate continued competence in practice.
<b>8. Using Evidence-Based Practice</b>	Utilize research and evidence-based practice and apply relevant findings to the care of patients.

<b>Master of Science in Medical Sciences Learning Outcomes</b>	<b>Health Professional Education</b>
<b>1. Professionalism</b>	Exhibit appropriate behavior regarding comportment, dress, language, punctuality, responsibility and attitude during all activities.
<b>2. Critical Thinking</b>	Develop an approach to learning and health care incorporating judicious integration of systematic assessments of relevant clinical and scientific evidence
<b>3. Narrative Competence</b>	Construct accurate written and oral summaries of scientific information and patient histories with facility

<b>4. Ethics and Humanism</b>	Demonstrate knowledge and implementation of ethical principles in scientific conduct and patient care. Exhibit qualities of humanism
<b>5. Subject Competence</b>	Demonstrate knowledge of scientific principles and practice and implement self evaluation and life-long learning.

#### **Attendance and Absences**

Attendance is required at all scheduled instructional periods. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during the periods missed. Excused absence for exams and assignment is only granted on medical and emergency grounds and must be obtained from the Director of the Master of Science in Medical Sciences program no later than the day of the assignment or exam. A physician's note or other document may be required.

#### **Course Load:**

A graduate student at Western University of Health Sciences in the Master of Science in Medical Sciences program must enroll in at least 8 semester hours per term to be considered full-time. To be considered full-time when enrolled in fewer than six hours, the student must be registered in all remaining courses necessary for completion of the graduation requirements for the degree.

#### **Vacation and Emergencies**

Students receive two weeks' vacation each year over the Christmas break. Students may not expect to take more time than this, may not leave early or return late from the break. Vacations are not provided during academic semesters.

Under special circumstances (i.e. interviews), a student may arrange a brief 1 -3 days off at the discretion of the program director and Dean. It is the Dean's and program director prerogative whether to grant the time off and is not guaranteed. Students should not enter the program with the expectation of taking time off for other pursuits (i.e. leaving the country, hobbies, etc.) Emergencies, including medical problems or serious personal/family issues, which result in less than 15 academic days (3 calendar weeks) away from campus, may be granted upon approval by the program director, in conjunction with the Dean, GCBS. Any missed course material is the responsibility of the student, and students may be required to complete alternative assignments, at the discretion of course faculty.

Students with emergencies resulting in more than 30 academic days (4 calendar weeks) away from campus must apply in writing for a Leave of Absence to the Dean or his/her designee. Please see the Western University Catalog's "General Academic Policies and Procedures" for more specific information on a Leave of Absence.

#### **Program Director and Faculty Advisor Assignment & Duties**

Enrolled students will be assigned a faculty advisor during orientation, matched to the professional goals of the student. This advisor will focus on professional career mentorship. The MSMS Program Director will act as academic progress and pre-professional advisor to all enrolled students, and as such advises enrolled MSMS students on graduate program and professional school applications and provides students with feedback on essays, choice of schools, timing of application and taking of MCAT, DAT and other standardized exams and pre-professional activities including interviewing skills and shadowing. The Program Director also will conduct workshops and programs for MSMS students on topics such as Interviewing, Writing a Personal Statement, Application Time Lines, Securing Letters of Evaluation, Standardized Test Preparation. The Program Director coordinates the information gathering and authoring of committee letters of recommendation, for students whose pre-professional applications require them.

#### **Capstone Project Requirements**

The capstone will be a combined oral and written project, utilizing appropriate presentation modalities.

1. MSMS candidates choose a topic for their capstone project based upon their own research, meta-analysis of existing literature data, policy analysis or other appropriate topic chosen in consultation with the capstone course director no later than the 2nd week of spring semester.
2. MSMS candidates will prepare a five minute oral defense presentation of proposal to capstone committee, a subset of the MSMS Advisory Committee.
3. If successfully defended, the MSMS candidates will prepare and present orally their findings assisted by either poster or PowerPoint at a special MSMS colloquium to members of the Graduate College and the University.

### **Grading System**

Official grades are turned in to the Registrar from the College of Graduate Biomedical Sciences Dean, at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available on the BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit our Online Computing Resources page at <http://www.westernu.edu/xp/edu/computing/computing-banweb.xml>.

Western University of Health Sciences GCBS makes use of letter grades. A four-valued letter grade scale will be given, indicating Grade Quality Points

Letter Grade	Description	Grade Points
A	Excellent	4.00
B	Good	3.00
C	Passing, but below required overall GPA	2.00
U	Unsatisfactory	0.00
CR	Credit	0.00
NCR	No Credit	0.00
Au	Audit	0.00
W	Withdrawal	0.00
M	Missing	0.00
I	Incomplete	0.00

Courses are rated at one credit hour for each 12 contact hours. . A cumulative grade point average will be calculated and posted on the transcript. The grade point average is calculated at the end of each semester. If a course is repeated, only the last grade earned enters into the computation of the grade point average, but the original grade remains on the student's transcript.

No course grade will be changed unless the instructor certifies in writing that an error in computing or recording the grade has occurred or that the student has completed course requirements for an incomplete grade or remediated grade.

### **Withdrawing from Courses**

Students may not drop individual courses within the curriculum. If a student wishes to drop from the program, they must complete the appropriate withdrawal or Leave of Absence forms. In such circumstances, a "W" will be assigned for the course unless the student has already completed 90% of the term. Please note that all 'W' grades received from the previous attempts will remain on the student's transcript. Please see Western University Tuition Refund Policy for additional information.

### **Incomplete**

An Incomplete grade "I" will only be assigned to students whose health and/or personal responsibilities prevent him or her from completing the requirements of the course. A student may remove an incomplete by completing course requirements within the 6 weeks or the final grade will be permanently recorded as a "U".

### **Academic Standing**

Only grades in Western University of Health Sciences courses approved for graduate credit will be used in determining the overall grade point average for continuation in the MSMS program. If, at the end of any semester, the cumulative grade point average falls below 2.5, the student will be placed on academic probation, and financial support will be discontinued. A 2.0 (C) grade earned in any class may be applied toward graduation only if the overall grade point average at the time of application for graduation continues at a minimum 2.3 cumulative grade point average. Any grade below a 2.0 (C) may not be applied toward graduation.

### **Tutorial Assistant Program:**

A Tutorial Assistance Program (TAP) has been established to assist students experiencing academic difficulty. Students may be recommended for this program by a faculty advisor, professor, or program director. Students may also self-identify to TAP to receive assistance. The tutors will be chosen on recommendation of the faculty in each discipline. For assistance, please contact the Learning Enhancement and Academic Development Office.

### **Academic Probation/Academic Suspension/Dismissal**

If the cumulative grade point average remains below a 2.5 after the student completes a total of 14 graded credit units subsequent to being placed on academic probation, the student may be placed on academic suspension or be dismissed from the program.

### **Standards of Academic and Professional Conduct: GCBS Honor Code**

Honesty and integrity are among the most valued traits of academic researchers and health-related scientists. Each student is expected to assume personal responsibility for those traits. Academic dishonesty includes cheating, plagiarism, using unauthorized resources during examination(s), sabotaging other students and mentors research as well as and signing another person's name to an attendance or examination document. Matters of academic dishonesty and professional misconduct will be handled consistently with the University's guidelines for Hearings involving alleged violations of the standards of professional conduct as described in the University's General Academic Policies and Procedures.

ANY INDIVIDUAL WHO WITNESSES OR BECOMES AWARE OF A POSSIBLE VIOLATION OF THE HONOR CODE IS BOUND TO REPORT THE INCIDENT. STAFF OR STUDENTS MUST REPORT THE INCIDENT TO A FACULTY MEMBER AND FACULTY MEMBERS MUST REPORT THE INCIDENT TO THE DEAN, GCBS.

Upon receipt of an allegation of misconduct, the Dean, GCBS will either address the matter directly or will appoint an ad hoc committee of the Faculty and student(s) of the program to investigate the allegation and forward a recommendation on a course of appropriate action to the Dean, GCBS. Potential sanctions could include placing the student on probation; require the student to undertake specific remedial activities, suspension for a defined period of time, or dismissal from the program. Decisions of the Dean in matters of conduct may be appealed following the procedure outlined in the Overview section of this Catalog.

### **Time Limits**

All requirements for the degree must be fulfilled within 1 academic year from the date of initial matriculation. Extensions of this limit may be granted due to Leave of Absence or special permission of the Dean of the Graduate College of Biomedical Sciences; a maximum extension of up to 3 years will be allowed to complete all graduation requirements.

### **Graduation Requirements**

For successful completion of the MSMS program, the faculty of the Graduate College of Biomedical Sciences has established guidelines and requirements in addition to the courses and optional requirements listed above. Minimum requirements for graduation with an MS include:

1. Successful completion of all required coursework and attainment of a cumulative GPA of 2.50 or greater with no more than two courses completed with a grade of C (2.00)
2. Is not on probation, academic suspension, or conduct suspension and has completed all prescribed academic requirements with no outstanding grades of U, NCR, or I.
3. Has demonstrated no serious deficiencies in ethical, professional, or personal conduct that would make it inappropriate to award the Master of Science in Medical Sciences degree.
4. Satisfactory completion and oral defense of the final capstone project
5. Completion of the program within two semesters, unless leave of Absence is granted. All students are expected to participate as full-time students.
6. All legal and financial requirements of the University as stated in the University Catalog have been met.

No student will receive his/her diploma until that student has successfully completed all requirements for graduation. All students must attend and participate in the Commencement program at which time the degree is conferred, unless the President of Western University of Health Sciences has granted special permission to waive

this requirement. If the President grants special permission to be excused from attending the Commencement program, the graduate may be required to present himself or herself to a designated University Official at a later date in order to take the required oath (if relevant) and receive his or her diploma.

### **PROGRAM DESCRIPTION**

To graduate, students must complete a minimum of 45 credit hours.

Orientation 1 day: time management, academic and social resources, team building, professionalism, learning skills.

#### **Fall Semester A**

DO 5002 Intensive Summer Anatomy Course (ISAC 8.5 credit hours) OR  
GCBS 5001 SMSPP Preparatory Course (8.5 credit hours)  
GCBS 5090 Biomedical Statistics and Research design (2 credit hours)  
GCBS 5020 Critical Learning and Communication Skills in the Health Professions I (3 credit hours)

#### **Fall Semester B**

GCBS 5041 Molecular and Cellular Basis of Life (5 credit hours)  
GCBS 5042 Physical and Biochemical Systems (5 credit hours)  
*(courses above run in sequential blocks, not concurrently)*  
IPE 5000 Patient Centered Cases - An Inter professional Approach (1 credit hour)  
GCBS 5070 Service Learning (4 credit hours) OR  
DO 5003 Anatomy Facilitation (4 credit hours)  
GCBS 5021 Critical Learning and Communication Skills in the Health Professions II (3 credit hours)

#### **Spring Semester 3**

GCBS 5081 Microbiology: Biological Systems in Human Disease (4 credit hours)  
GCBS 5082 Clinician And Society (3 credit hours)  
GCBS 5083 Clinical Environments in Health Care (3 credit hours)  
IPE 5100 Patient Centered Cases - An Inter professional Approach (1 credit hour)  
GCBS 5062 Clinical Research & Evidence-Based Decision Making CAPSTONE COURSE (3 credit hours)

### **COURSE DESCRIPTIONS**

#### **GCBS 5001 Summer Medical Sciences Preparatory Program (8.5 credit hours) (Graded)**

This is an elective course. The Summer Preparatory Program prepares incoming students for the Gross Anatomy course and provides an introduction to biochemistry. The anatomy component focuses on the skeletal, muscular, cardiovascular and nervous systems, and a brief overview of other body systems. Presentations also focus on enhancing student study and test-taking skills. This course is intended for students without prior course work in anatomy.

#### **GCBS 5020 Critical Learning and Communication Skills in the Health Professions I (3 credit hours) (Graded)**

The first part of a two trimester sequence intended to expose students to myriad techniques and approaches for being a successful graduate student and for becoming a life-long learner. Students will have the opportunity to study and apply practical techniques to maximize comprehension and retention of material, supporting theory for these techniques, and current scholarship in which these theories and techniques are discussed. In addition, students will explore myriad aspects of group performance. Beyond study skills, the course will emphasize numerous aspects of graduate-level education including the management of time and stress; increasing focus, concentration, motivation and memory; strategies for reading, note-taking, and studying; assessment of learning style; approaches to test-taking; effective and written and oral communication.

#### **GCBS 5021 Critical Learning and Communication Skills in the Health Professions II (3 credit hours) (CR/NCR)**

The second semester of a two trimester sequence intended to expose students to myriad techniques and approaches for being a successful graduate student and for becoming a life-long learner. Students will have the opportunity to

study and apply practical techniques to maximize comprehension and retention of material, supporting theory for these techniques, and current scholarship in which these theories and techniques are discussed. In addition, students will explore myriad aspects of group performance. Beyond study skills, the course will emphasize numerous aspects of graduate-level education including the management of time and stress; increasing focus, concentration, motivation and memory; strategies for reading, note-taking, and studying; assessment of learning style; approaches to test-taking; effective and written and oral communication. For some students a potential part of this course might include taking a MCAT/DAT/PCAT/OAT or GRE test preparation course through a commercial company.

**GCBS 5041 Molecular and Cellular Basis of Life** (5 credit hours) (Graded)

This course presents an integration of molecular biology, cellular physiology and metabolism in prokaryotes and eukaryotes as well as an introduction to host defense responses within the context of their clinical applications of basic biomedical sciences. Students will develop an understanding of the principles of molecular biology, including DNA replication and expression of genetic information. They will learn the basic concepts of cellular physiology and metabolism in both prokaryotes and eukaryotes and understand the major types of tissues/cells of the human body as well as the basic function of each tissue/cell type

**GCBS 5042 Physical and Biochemical Systems**    (5 credit hours)    (Graded)

The overall goal of this course is to introduce students to the most important concepts and principles of biological chemistry. Topics previously covered in earlier chemistry and biology courses will be expanded and placed in the context of the living organism. The key objective is to understand and be able to apply concepts rather than merely memorize information. Subject areas covered include: macromolecular structure, reactivity and function, thermodynamics, carbohydrate, lipid, amino acid metabolism and nucleotide metabolism, and metabolic interrelationships between organs and pathways. Students attending this course will develop an understanding of the principles of biological chemistry, including thermodynamics, kinetics and macromolecular structure, function and reactivity. They will learn the basic concepts of metabolism in human systems, in both health and disease and demonstrate skills in the interpretation of contemporary biochemical data on each of the major classes of biological macromolecules, as well as in the interpretation of clinical data relating to the understanding of the roles of biomolecules and the integration of metabolism.

**GCBS 5062 Clinical Research & Evidence-Based Decision Making CAPSTONE COURSE (3 credit hours)  
(Graded)**

This course aims to introduce students to clinical research methods as well as basic and advanced concepts of evidence-based practice in the health professions. Emphasis will be placed on training students to appropriately utilize and evaluate the biomedical literature across health professions. As a result, this course will prepare students to engage in evidence-based decision making, providing the skills needed to locate relevant online scientific/medical information as well as to evaluate the quality of the research methodologies and statistical analyses reported in the clinical research literature. The focus is from a clinical practitioner/researcher standpoint rather than that of a basic sciences researcher. This is an introduction to several key concepts, and students are not expected to have a deep mastery of statistics, research methodology, or online bibliographic databases prior to taking the course. Students attending this course will develop an approach to health care incorporating judicious integration of systematic assessments of clinically relevant scientific evidence in the context of patient treatment needs and preferences. Students will understand and evaluate epidemiological methodology in the published literature and assess results of clinical trials in light of statistical, ethical, and methodological considerations, by critically appraising the evidence for its validity and importance regarding diagnosis and screening, prognosis, therapy and etiology/harm. They will develop a precise question in the research context and utilize effective evidence-based practice search strategies applying the results to practice.

## **GCBS 5070 Service Learning (4 credit hours) (Graded)**

Service learning in the biomedical science research enhances student confidence and understanding of the research underpinning that informs their future clinical practice. Additionally, it increases student capacity and confidence to utilize that understanding in the conduct of creative, problem-solving. Students will be placed with a faculty researcher to participate in the process of original inquiry, either clinical or bench research. Learning through faculty-mentored investigation allows students to put in practice the scientific concepts they are learning in their didactic courses deepening their understanding of the basic medical sciences necessary for the practice of health care. Students are expected to devote 8-10 hours of their week in this process and should be expected to proficiently document their research via a small paper, annotated bibliography of papers set forth by the students mentor

researcher, and to be able discuss proficiently the reasoning behind the inquiry and methodologies utilized in the research.

**GCBS 5081 Microbiology: Biological Systems in Human Disease (4 credit hours) (Graded)**

This course is offered to the first year students in the Master of Science in Medical Sciences Program. This course presents an integration study on the basics of microbiology, including microbial structure, function, metabolism, genetics, and the relationship of microbes with the host and host-defense mechanisms. In addition, the major pathogenic microbes (bacteria, viruses, fungi, and protozoa) and the diseases they cause will be discussed. The students will be expected to learn basic and clinical lab techniques as well as their application in the identification of various microbes.

**GCBS 5082 Clinician and Society (3 credit hours) (Graded)**

The Clinician and Society (CAS) course will provide the pre-healthcare professional student with the opportunity to experience and begin to understand the multi-faceted and complex nature of the healthcare professions as they relate to society at large. The student will gain insight into the many social components that both influence and shape healthcare practice and the societal perspectives that influence how the healthcare practitioner is perceived by society. At the end of this course students will be able to describe the historical development of modern healthcare practice and the contributions of healthcare practitioners from antiquity to the present who made key contributions to the evolution of medicine and medical practice. Students will discuss the history of osteopathic medicine in the United States and the unique philosophical and practical contributions that Andrew Taylor Still made to medicine. The history of osteopathic medicine in California, as well as the history of podiatry, optometry, dentistry and veterinary medicine will be covered. Major elements of medical professionalism why it is critical in the practice of the health sciences will be emphasized through the course.

**GCBS 5083 Clinical Environments in Health Care (3 credits hours) (Graded)**

This course provides a critical experiential learning opportunity for the Master of Science in Medical Sciences specifically placing the clinical provision of care in its broader context, integrating both theory and practice with reflection. It is a learning process through which the learner constructs knowledge, attitudes, skills, competencies and understanding through direct reflective experience. In short the course provides an opportunity for students to learn while doing. Students will meet with faculty and staff to arrange a clinical placement for the final semester of the program. Students are expected to shadow or intern in their placement for a minimum of 5 hours per week throughout the semester and to keep a reflective journal of their experiences. Students who participate in these opportunities tend to be more excited, enthusiastic and engaged in their studies, perform better in the classroom, and develop knowledge, skills and abilities that give them a strong competitive edge in obtaining graduate admission. Students in these activities develop both competence in the theory and practice of their discipline and confidence in their ability to function as future professionals.

**GCBS 5090 Biomedical Statistics and Research (2 credit hours) (Graded)**

This course will cover various topics in descriptive and inferential statistics intended to introduce the student to the theoretical and practical aspects of statistics in research. Various topics will include central tendency, variability, hypothesis testing, multi-factorial analysis of variance, trend analysis, regression analysis and correlation.

**The following courses are also part of the MSMS degree program.**

**OM 5002 Intensive Summer Anatomy Course (ISAC) (8.5 credit hours) (Graded)**

Prerequisite: Application to the course and permission of instructor. The Intensive Summer Anatomy Course (ISAC) is an accelerated equivalent to DO5030, given in 6.5 weeks to highly qualified incoming students. ISAC students who score 80% and above at the end of this course are selected to serve as facilitators (peer leaders) for Gross Anatomy DO5030. Facilitators participate in peer-led team learning (PLTL) and experiential learning and enroll in DO 5003 in lieu of DO5030. Facilitators lead dissection and discussion groups at intervals during the course, and some are selected as teaching assistants for the ISAC the following summer.

**OM 5003 Anatomy Facilitation (4 credit hours) (CR/NCR)**

Prerequisites: Completion of DO 5002 with a final percentage score of 80% or higher and permission of course director. Students enrolled in this elective course will be assisting the other first year medical students in the

dissection of cadavers and otherwise aid studies in the regular Medical Gross Anatomy course. Other types of teaching assistance, including prosecuting difficult-to-identify structures, may also be required.

**IPE 5000-5100 Patient Centered Cases - An Inter professional Approach I & II (1 credit hour each) (Graded)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

**MSMS PROGRAM ACADEMIC CALENDAR 2010-2011**

**Fall Semester**

April 15, 2010  
Application Deadline

June 10-11, 2010  
Orientation

June 14, 2010  
Classes Begin/Tuition Due

Friday, July 2, 2010  
Last Day of Classes

Tuesday, July 6, 2010  
Classes Resume

Saturday, August 7, 2010  
Convocation

Monday, September 6, 2010  
Labor Day (No Classes)

Monday, October 11, 2010  
Columbus Day (No Classes)

Wednesday, November 24, 2010 (5 pm)  
Last Day of Classes

Monday, November 29, 2010  
Classes Resume

Friday, December 17, 2010  
Fall Classes End

**Spring Semester**

Monday, January 3, 2011  
Spring Semester Begins/Tuition Due

Monday, January 17, 2011  
Martin Luther King, Jr. Day (No Classes)

Monday, February 21, 2011

President's Day (No Classes)

Monday, March 21, 2011  
Spring Break Begins

Monday, March 28, 2011  
Classes Resume

Friday, May 20, 2011  
Spring Semester Ends

Thursday/Friday, May 19/20, 2011  
Commencement

Monday, May 30, 2011  
Memorial Day (No Classes)

# COLLEGE OF OPTOMETRY

## Doctor of Optometry Program

### ACCREDITATION

The College of Optometry was granted the pre-accreditation classification of "Preliminary Approval" on February 15, 2008 by the Accreditation Council on Optometric Education (ACOE). "Preliminary Approval" is granted to a professional optometric degree program that has clearly demonstrated it is developing in accordance with Council standards. The pre-accreditation classification of preliminary approval is the only classification available to a new professional optometric degree program, since the ACOE will not grant accreditation classifications of "Accredited" or "Accredited with Conditions" until the program is fully operational (i.e. nearing the end of its fourth year of implementation).

Western University of Health Sciences is accredited by the Accrediting Commission for Senior Colleges and Universities of the Western Association of Schools and Colleges (WASC). When a University that is already accredited by WASC makes what is called a "substantive" change to its program, it is required to obtain prior approval. Effective December 8, 2008, the WASC Accrediting Commission for Senior Colleges and Universities granted final approval of the substantive change proposal for the Doctor of Optometry program.

### MISSION STATEMENT

The mission of the Western University of Health Sciences College of Optometry is:

- To graduate caring, comprehensive optometrists who can enhance visual function throughout the lifespan of each unique individual, and serve the increasing public need in neuro-optometry encompassing: learning disabilities, brain injury, developmental disabilities, and the visually impaired.
- To advance scientific inquiry with particular emphasis upon studies in: neurological function; visual-spatial perception, visual-vestibular integration, visual attention, lighting, and human behavior; vision and learning; orientation and mobility in the visually impaired; and, efficacy of various treatment procedures and interventions.
- To provide health care services to the public in: primary care, pediatrics, geriatrics, low vision, vision therapy, sports vision, and neuro-optometry.

### GOALS AND OBJECTIVES

The College goals and objectives include teaching and learning, research and scholarly activity, and community and public service.

- Recruit the best students
- Maximize student retention and licensure
- Provide an innovative curriculum emphasizing key areas
- Recruit and retain the best faculty aligned with the key areas
- Create infrastructure and support for scholarly activity
- Seek collaborative opportunities and external funding for scientific inquiry
- Seek collaborative opportunities maximizing clinical education with excellence in patient care
- Integrate community and public service with curriculum and patient care
- Integrate health care services with innovative curriculum
- Integrate health care services with clinical research

### STUDENT LEARNING OUTCOMES

A graduating Doctor of Optometry from the Western University of Health Sciences College of Optometry must demonstrate ethical and professional standards appropriate to a health care professional, as well as demonstrating the biomedical knowledge required to enhance and extend the quality of life in our communities by enhancing visual function.

Western University of Health Sciences College of Optometry adopts the definition of entry level attributes for students graduating from schools and college of optometry as recommended by the Association of Schools and Colleges of Optometry (ASCO). The "30 Attributes" of the graduate are shown below.

The graduate shall be:

- Knowledgeable

*The graduate shall demonstrate knowledge of:*

1. Basic body systems, with special emphasis on the ocular and visual system and their interrelationships to the body as a whole.
2. The various processes and causes that lead to dysfunction and disease, and the effect that these processes can have on the body and its major organ systems, with special emphasis on the ocular and visual systems.

3. Mechanisms of actions of the various classes of pharmaceutical agents. Their interactions and their safe and effective use for the treatment of disease and conditions affecting the eye and visual system.
4. The structures and processes contributing to the development of refractive error and other optical and perceptual abnormalities of the visual system.
5. The optics of the eye and ophthalmic lens systems (including spectacles, contact lenses and low vision devices) used to correct refractive, oculomotor and other vision disorders.
6. Visual development and vision function with respect to deviation and enhancement such as, but not limited to, strabismus, amblyopia, oculomotor, accommodation, and visual perception.
7. Vision therapy and other rehabilitative methods used for the management of common visual disorders.
8. The psychosocial dynamics of the doctor/patient relationship and an understanding of the social, psychological, and economic forces affecting diverse patient populations.
9. Practice management structures and strategies as they pertain to the various practice settings.
10. The critical elements of verbal and written communications and, clear and appropriate documentation of patient encounters.

- Skillful

*The graduate shall demonstrate the ability to:*

1. All the skills required for the diagnosis, triage, management and/or treatment of common visual conditions and ocular diseases
2. The ability to order and interpret frequently needed laboratory and diagnostic procedures.
3. The critical thinking skills needed to assess the patient's visual and physical status and to interpret and synthesize the data to formulate and execute effective management plans.
4. The ability to prescribe and/or use ophthalmic materials, contact lenses, vision therapy, low vision systems, pharmaceuticals, and certain surgical procedures, to treat and otherwise manage common vision disorders and disease.
5. The ability to recognize and initiate the coordination of care for patients requiring advanced medical or specialty care.
6. The ability to recognize life threatening conditions and to initiate intervention.
7. Effective communication skills, both orally and in writing, as appropriate for maximizing successful patient care outcomes.
8. The ability to realistically assess personal competencies and limitations.
9. The ability to appropriately use all resources including the use of ancillary personnel, intra- and inter-professional consultation, co-management and referral in ensuring the best quality patient care.
10. The ability to access knowledge, (including through the use of information technology), and manage information, and to apply that information in making decisions about patient care and health care delivery.

- Professional and Ethical

*The graduate shall demonstrate:*

2. A commitment to life-long learning and providing the highest standard of care.
3. The ability to incorporate ethical principles into decisions affecting patient care and the practice of optometry.
4. The ability to acquire, analyze and apply new information while making reasonable and informed decisions that are consistent with the interests and needs of the patient and broader community.
5. Problem-solving and critical thinking skills that integrate current knowledge, scientific advances, and the human/social dimensions of patient care to assure the highest quality of care for each patient.
6. The ability to recognize personal limitations regarding optimal patient care and to work with the broader health care community in providing the best care possible.
7. An understanding and application of professional ethics and standards in the practice of optometry, always keeping patient's welfare foremost.
8. Professionalism, by demonstrating honesty and integrity in all interactions with patients and their families, colleagues, and others with whom the optometrist must engage in his/her professional life.
9. A respect for the dignity of every patient and a commitment to empathetic and confidential care.
10. Professionalism in understanding the challenges to the optometric profession posed by potential conflicts of interest inherent in health care delivery.
11. A commitment to be actively involved in organized optometry and the community.

## THE OD DEGREE

The Doctor of Optometry degree (OD) is awarded in recognition of the highest level of professional education in optometry in the United States. To earn the OD degree, students must successfully complete four years of professional study subsequent to completion of their undergraduate, pre-professional prerequisites at an accredited college or university. Students who successfully complete this program are eligible to take state optometric licensing examinations. Most states have replaced the written examination with the National Board of Examiners in Optometry (NBEO) examinations which the students take during their academic career. Information

on the NBEO licensing examination is available at <http://www.optometry.org>. After passing this examination, graduates are licensed to perform all the duties and responsibilities of a practicing optometrist.

## ADMISSION POLICIES AND PROCEDURES

The College of Optometry at Western University of Health Sciences accepts applications from all qualified candidates without regard to race, religion, sex, sexual preference, or nation of origin. While grades and Optometry Admissions Test (OAT) scores are important in selecting candidates for admission, and may suggest future academic success, the Admissions Committee recognizes that these statistics, by themselves, do not guarantee later success as a doctor of optometry. Therefore, non-academic criteria are also important in making the selection. The College of Optometry seeks a diverse and balanced student population and considers factors such as a well-rounded background, work experiences, letters of recommendation, interest in and knowledge of the profession of optometry, and professional promise. To ascertain these factors, an on-campus interview is required prior to a final decision on an application. The College may exercise its discretion to rely upon additional considerations.

### Application Requirements

An application to the College of Optometry includes the following items:

1. **Primary Application:** Submit primary application online through OptomCAS (Optometry Centralized Application Service). Applicants must pay a fee of \$125 to apply to one school or college of optometry. An additional \$45 fee will be charged for each additional school or college.
2. **Supplemental Application:** Original signed supplemental application form with all questions answered. All supplemental applications must be postmarked on or before May 1, 2010.
3. **Supplemental Application Fee:** There is a non-refundable \$65.00 application fee payable to Western University.
4. **Prerequisite Course Worksheet:** Please list all prerequisite courses you are currently taking or plan to take. Prerequisite courses may be in progress during the academic year prior to matriculation. Final transcripts and/or final grades for all course work in progress must be received prior to orientation week.
5. **Letters of Recommendation** (should be submitted through OptomCAs): We require three (3) recommendation letters. It is suggested that one letter be from an optometrist and one be from a faculty member or pre-health advisor who is familiar with your academic work.
6. **Official Optometry Admission Test (OAT) Score Report:** The OAT is required and should be taken as soon as possible with the results sent to the Western University of Health Sciences College of Optometry. If you choose to have your official score report mailed to your home address, do not open the envelope when it is received. Include this unopened score report in your application packet.
7. **International Student Application (ISA):** International applicants, applicants who are not U.S. citizens and who are living in the U.S. and applicants who have applied for permanent residency but have not been approved at the time of application must complete an International Student Application.
8. **Re-Applicants:** You will need to submit a new set of official transcripts directly to OptomCAS. If you submitted the three required letters of recommendation in your previous application, you need to submit one new letter of recommendation. The additional letter should provide insight into the activities you have participated in since your last application submission and should be submitted through OptomCAS. If you did not submit at least three letters of recommendation in your previous application, you need to provide additional letters to meet our three letter requirement. New letters should be submitted through OptomCAS. If you have re-taken your OAT since your last application, please request that a new official score report be sent directly to WesternU.

### Academic Requirements

Academic requirements for admission include:

- Completion of prerequisite courses as outlined below
- Minimum 90 semester or 135 quarter units of undergraduate coursework
- A baccalaureate degree is preferred, but not required
- Optometry Admissions Test (OAT)
- Computer literacy in the operation and management of a laptop computer

### Prerequisite Courses

The following courses must be completed at an accredited institution, in the United States or Canada, with a grade of "C" or better, prior to enrollment and are the minimum requirements for all applicants:

- General Biology or Zoology with lab – 8 semester or 12 quarter units
- General (Inorganic) Chemistry with lab – 8 semester or 12 quarter units
- General Physics with lab – 8 semester or 12 quarter units
- English – 6 semester or 8 quarter units
- Organic Chemistry with lab – 3 semester or 4 quarter units
- General Microbiology or Bacteriology with lab – 3 semester or 4 quarter units
- Calculus – 3 semester or 4 quarter units

- Biochemistry –3 semester or 4 quarter units
- Psychology –3 semester or 4 quarter units
- Statistics – 3 semester or 4 quarter units

### **Recommended Courses**

The following courses are not required, but are highly recommended.

- Anatomy – 3 semester or 4 quarter units
- Physiology – 3 semester or 4 quarter units

### **Notes Regarding Prerequisite Coursework**

- Introductory level courses in the sciences are not accepted
- All prerequisite courses must be completed by the Spring term of the matriculating year. No summer courses prior to matriculation will be accepted.
- Pass/No Pass grades are not accepted for prerequisite coursework
- One course cannot be used to satisfy more than one prerequisite
- Advanced Placement courses will be accepted for English or Calculus courses only. AP courses will be accepted only if the undergraduate college has accepted the credit and the student has achieved a score of 4 or 5 on the College Board Advanced Placement Test.

### **Student Selection Process**

The Western University Student Affairs/Admissions Office assists the College in preparation, distribution and handling of all admissions-related materials, as well as in application processing. Applications for admission will be accepted each year from July 15 to May 1 for classes beginning in August of the next academic year. The College of Optometry will begin scheduling interviews as academically qualified applications are received.

After the applicants' file is complete, the College of Optometry Admissions Committee will review it to determine whether the minimum academic qualifications have been met, and whether the candidate will be granted an interview. If the candidate is deemed promising, he or she will be invited to the campus at his or her expense. The candidate should plan to spend a full day on campus for orientation and the interview. Orientation will consist of information on the curriculum, financial aid, student services, a tour of the campus, and time to meet with current Western University students.

The interview team conducting the on-campus interview will complete a standardized assessment form. The admissions Committee will review the report from the interview and will also review the applicant file again to determine whether the candidate will be accepted. The options for a decision could include an offer of acceptance, placing a candidate on a wait list, or denial of admission. The applicant will be notified of the committee decision within three weeks of the interview.

The College of Optometry will be utilizing a rolling admissions process, which means that qualified candidates will be accepted on a first-applied basis throughout the open admissions period (July through April). Candidates who apply early have the best chance at acceptance.

### **International Students**

International students and any other applicants who are not U.S. citizens and who are living in the U.S. should be prepared to provide proof of legal U.S. residency at the time of interview. Proof of legal U.S. residency is required prior to any offer of acceptance. For more detailed information, please visit our web page at [www.westernu.edu/xp/edu/international/international-student-visa.xml](http://www.westernu.edu/xp/edu/international/international-student-visa.xml). It is the responsibility of the applicant/matriculant to assure that they are fully and legally qualified to attend an educational program in the United States for the duration of the program.

### **REGISTRATION**

First year students are required to register by the registration date specified in the University Calendar by the Registrar. Students in subsequent years must complete registration materials, including financial arrangements, prior to the dates specified in the Academic Calendar. Continued matriculation and graduation are subject to satisfactory completion of all academic requirements and payment of all outstanding debts to the University. The receipt of a final transcript from an undergraduate college and physical examination with documentation of required immunizations are required of incoming students prior to registration. Also, all students must show proof of current health insurance coverage at the time of registration. This coverage must remain in effect throughout the academic year. If there is no proof of current coverage, a policy provided by the University will be made available. Attendance at Orientation Week is mandatory for all incoming first-year optometry students.

### **TUITION AND FEES**

By action of the Board of Trustees, the College of Optometry annual tuition for the 2010-11 academic year (subject to change) is \$29,015. Students will incur additional costs for books, equipment, and fees, estimated at approximately \$4,500 in the first year due to costs of initial equipment purchases, \$3,000 in the second year, and \$1,500 in the final two years. All accepted applicants must

complete a matriculation agreement form and send a tuition deposit of \$500, which applies to the first-year tuition, to confirm their space in the class. If an applicant fails to register, the tuition deposit is forfeited.

In addition to tuition, students are assessed a \$40 Student Body Fee in years one and two of the curriculum, and a \$20 Student Body Fee in years three and four of the curriculum. This fee supports student government expenditures, social activities, and public relations.

The College of Optometry requires that each student have a classroom responder, approved by the College, which is to be purchased from the University Bookstore. Classroom responders are electronic devices that will be used to enhance interactive learning in classrooms. Individual responders must be registered to only one (1) student. The responders may be used to administer and score assessments; therefore, students are required to bring their responders to each class.

The College of Optometry requires each student to participate in the development and management of an on-line educational portfolio. The portfolio will be used to keep track of the student's educational experiences and his/her progress toward the achievement of the educational standards as set forth by the College.

### **Other Fees and Expenses, Estimated**

Graduation Fee (assessed on candidates for graduation only)	\$ 200
Late Registration Fee (per day)	\$ 30
Recommended Text Books (per year, estimate)	\$1,000
Required equipment (per year, estimate)	\$ 2,500
Required tablet personal computer (range)	\$2,000 to \$2,500
Classroom responder	\$ 65
Educational Portfolio Software	\$ 75
Lost Identification Badge Fee	\$ 10
Lost Locker Key Fee	\$ 40
Western University Parking Permit Fee (annual, optional)	\$ 400
Copy of Official Transcript (each)	\$ 6
Rush Transcript (each), First Class Mail	\$ 21
Rush Transcript (each), Federal Express	\$ 25
Copy of Student File Material (per page)	\$ 0.25

### **Financial Assistance**

All Optometry students are eligible to apply for need-based financial aid. For more information, please call the Financial Aid Office at 800-346-1610 or visit the Financial Aid Web site at <http://www.westernu.edu/xp/edu/financial/financial-about.xml>.

### **Tablet Personal Computers (PC)**

Students are required to have a tablet personal computer and will begin using it the first week of class. Tablet PCs must meet pre-determined technical specifications that are updated annually. Specifications can be accessed by visiting the Western University website at <http://www.westernu.edu/bin/computing/computer-requirements-laptop.pdf>. The tablet PCs will be used for e-mail communication with classmates and faculty, for accessing computer and server-based course information and instructional software, for searching online bibliographic databases and creating electronic bibliographies, and for participating in exercises in clinical education and pre-clinical laboratory assignments. Tablet PCs are required to run Electronic Health Records software and must meet exact specifications to support these needs. In addition, it is recommended that each student have access to a printer. Computers will be needed by students on campus as well as at their pre-clinical laboratories, clinical assignments, and community-based screening programs; therefore, tablet computers are required instead of desktop models.

### **National Board Fees**

All states require passage of the National Board of Examiners in Optometry (NBEO) examinations for licensure. Students will be eligible to take NBEO exams in their third and fourth years of study. Fees are subject to change by NBEO and are updated regularly. These fees can be found online at <http://www.optometry.org/fees.cfm>.

### **Clinical Rotations Expenses**

During the third and fourth years of the curriculum, students may be required to rotate through off-campus clinical experiences away from the Pomona area, which is a self-imposed expense. In addition, students are required to return to campus several times during the clinical years for various educational experiences, conferences, etc. Any travel, food, housing or other expenses incurred by participating in these activities are the responsibility of the student.

## **ACADEMIC POLICIES AND PROCEDURES**

### **Academic Support**

The faculty and administration of the College of Optometry are committed to providing support for academic success in the program.

Students are encouraged to take an active role in monitoring their own academic progress to ensure adequate performance in all assignments. Student academic performance is monitored on an ongoing basis by faculty members, the Assistant Dean of Student Affairs, and the Associate Dean of Academic Affairs.

The University offers academic support services through the office of Learning Enhancement and Academic Development (LEAD) and students are encouraged to avail themselves of these services as needed.

The College of Optometry's Assistant Dean of Student Affairs serves as the primary contact for students seeking support.

### **Student Performance Committee**

The Student Performance Committee is responsible for maintaining the academic and conduct standards within the College of Optometry.

For purposes of clarification, "performance" is defined as those activities of behavioral-conduct or academic nature that negatively affects or impairs the continued ability of a student to maintain good academic standing within the College of Optometry.

The Student Performance Committee also has the responsibility of recommending to the Faculty as a whole the awarding of the degree of Doctor of Optometry to all students who satisfactorily complete all requirements for graduation as stated in the University Catalog.

All recommendations of the Student Performance Committee shall be in writing to the Dean, who will make the information available to the affected student. The Committee Chair will provide recommendations on remediation, probation, suspension and dismissal to the Associate Dean of Academic Affairs. Guidelines for committee actions are included in the following section.

### **Attendance and Absences**

Attendance is required at all scheduled instructional periods, including orientations, group meetings with tutors, scheduled educational laboratories and experiences, and all clinical assignments. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during these periods.

Students are required to be present for all scheduled examinations and cannot begin an examination more than 15 minutes after the scheduled starting time. There are no planned unexcused absences in advance for scheduled course examinations. In the case of emergency circumstances (e.g., illness or accident) students may request an excused absence allowing them to take a make-up examination. Requests (with appropriate documentation) must be made to the Associate Dean of Academic Affairs, who in turn will provide the decision for excused absences to the course instructor.

Absence from an examination due to unforeseen circumstances, including illness, should be reported to the Associate Dean of Academic Affairs by telephone or email as soon as possible prior to or after the exam has been administered. A written explanation of the absence (including documentation on physician letterhead, in the case of illness) must be provided to the Associate Dean of Academic Affairs the next day the student is on campus.

If a student misses an examination, the Associate Dean of Academic Affairs will determine whether the absence is excused or unexcused. If the absence is excused, the student will be permitted to take a make-up examination, the nature and time of which will be determined at the discretion of the course instructor, and the student will receive full credit for the make-up examination.

If the absence is unexcused this is grounds for summary failure (a score of zero) for that examination. The course instructor may grant a score of zero or may offer the student the option of completing an alternate assignment or alternate test for partial credit at his or her discretion.

### **Leave of Absence**

A leave of absence may be initiated at the request of the student for personal reasons. Students requesting a leave of absence should communicate directly with the Assistant Dean of Student Affairs. The duration, terms, and standards for readmission will be communicated by the Assistant Dean of Student Affairs in writing to the student. The Leave of Absence policy will be administered in alignment with the University's General Academic Policies and Procedures.

### **Examinations**

Examination schedules will be provided at the beginning of every course and included in each course syllabus. In addition, unannounced examinations may occur during any portion of the curriculum at the discretion of the course instructor.

### **Standards of Academic and Professional Conduct**

Honesty and integrity are among the most valued traits of an optometrist, and each student is expected to assume personal responsibility for those traits. Academic dishonesty includes cheating, plagiarism, using unauthorized resources during examination(s), and signing another person's name to an attendance or examination document.

Matters of academic dishonesty and professional misconduct will be handled consistently with the University's guidelines for Hearings involving alleged violations of the standards of professional conduct as described in the University's General Academic Policies and Procedures.

### **Grading Policies**

Official grades are turned in to the Registrar of Western University by the Office of the Dean of the College of Optometry, at which time the online student records system, BanWeb, is updated. Grades may be viewed and unofficial transcripts are available on the

BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at <http://www.westernu.edu/xp/edu/registrar/registrar-about.xml>.

The College of Optometry uses letter grades A through U and Pass/Fail with clinical grading levels of Honors, Pass, Remedial, or Fail. Honors/Pass/Remedial/Fail courses will not be assigned letter grades. The student must satisfy the requirements of these courses, as determined by the faculty teaching the courses, to receive credit. Course grading scales will be published in each course syllabus. Letter grades assigned may vary from course to course, depending on the type of material and required competencies. Courses that are taken jointly within the COMP curriculum will have their own College of Optometry course number and course requirements and grading standards as determined by the College of Optometry faculty. The Patient Care Services course sequence will be graded on an Honors, Pass, Remedial, or Fail basis.

Letter grades are reported according to the following values:

A	(4.00)	Excellent
B	(3.00)	Good
C	(2.00)	Satisfactory
D	(1.00)	Unsatisfactory
U	(0.00)	Fail
HO	(0.00)	Honors (Patient Care Services course sequence only)
P	(0.00)	Pass (Patient Care Services and CPR courses only)
R	(0.00)	Remedial (Patient Care Services course sequence only)
F	(0.00)	Fail
AU	(0.00)	Audit
I	(0.00)	Incomplete
W	(0.00)	Withdrawal
M	(0.00)	Missing

A semester and cumulative grade point average are calculated and posted on each student's transcript. Courses graded on a Pass/Fail basis do not contribute to the calculation of the grade point average. Class ranking is also available upon request from the Registrar's Office.

## Credit Calculations

Credit hours for the curriculum will be allocated in accordance with standard University policies. 12 hours of assigned lecture will be equivalent to 1.00 credit hours; 24 hours of laboratory instruction and/or practice sessions will be equivalent to 1.00 credit hours. Credit hours for clinical patient care (Patient Care Services course sequence) will be assigned as 16 hours per 1.00 credit hours. Credit hours are rounded to the nearest 0.50.

## Grade Changes

For all courses, no grade will be changed unless the course instructor-of-record certifies in writing to the Associate Dean of Academic Affairs and the Registrar that an error in computing or recording the grade occurred. For on-campus courses, students have a maximum of three weeks from the time examination results are returned to them to bring any errors or irregularities in grading to the attention of the instructor. All recorded grades remain on the official transcript unless a clerical error has occurred.

Within the above-designated time, grade changes for clinical assignments will be considered only under the following circumstances:

1. When the Associate Dean of Academic Affairs receives a signed written statement from the clinical site coordinator specifying that a clerical error has been made regarding a grade, and that the purpose of the change is to correct the clerical error.
2. When the clinical site coordinator to whom the student was assigned submits a signed written request to have the grade changed. The request must include justification for making the change.

## Satisfactory Progress

Students must maintain a semester and cumulative grade point average of C (2.00) on a yearly basis during all four years of the curriculum to be considered making satisfactory academic and professional progress. All grades of Incomplete (I) must be successfully completed, and "U" or "D" grades in any course or clinical assignment must be satisfactorily remediated prior to promotion or graduation. If a student leaves a clinical assignment before it is finished without the permission of the Associate Dean of Academic Affairs, or is asked to leave an assignment by the Clinical Site Coordinator, a grade of "F" will be assigned.

## Incomplete Grade (I)

A grade of Incomplete (I) indicates that a student has not been able to finish all required work for issuance of a letter grade. An "I" is not counted in the grade point calculations until a letter grade is issued to replace the "I".

Replacement of an "I" will be under the direction of the instructor-of-record with the approval of the Associate Dean of Academic Affairs. Grades of Incomplete must be replaced with a letter grade at a time designated by the instructor-of-record but no later than

three weeks following the end of the semester. Incomplete grades that are not replaced with a letter grade within three weeks will automatically be changed to a grade of "U" or "F". Students earning an Incomplete grade in a clinical assignment may have the completion deferred for a period of time greater than three weeks with approval from the instructor-of-record and the Associate Dean of Academic Affairs.

### Promotion

Promotion is defined as academic and professional progression from one academic year to the next. The Student Performance Committee will recommend students to the faculty for promotion. A student may not be recommended for progression from one academic year to the next with an outstanding grade of "I", "U", or "F" in a required course, a semester GPA less than 2.00 for two consecutive semesters, or a cumulative GPA less than 2.00. When considering a student for promotion, the faculty will consider ethical, professional, and personal conduct as well as academic performance (see University's General Academic Policies and Procedures section of the catalog). All academic requirements must be met within a maximum of six calendar years from the date that the student first begins class at Western University College of Optometry for recommendation for graduation.

### Review of Student Performance

Student performance is reviewed on an ongoing basis by the Associate Dean of Academic Affairs. Determination of eligibility for dismissal or for probation will be assessed at the conclusion of each course as well as at the end of each semester. Since courses may conclude prior to the end of the semester, a student may be placed on probation or become eligible for dismissal prior to the end of an academic term.

### Dismissal from the Program

The Faculty of the College of Optometry may require dismissal of a student from the optometry curriculum for failure to meet standards of scholarship, attendance, or conduct. A student will become eligible for dismissal under at least one of the following conditions:

1. Cumulative grade point average at the end of the first professional year of less than 1.50
2. Cumulative grade point average below 2.00 after having been on probation in any previous semester (see conditions for Probation below)
3. Student earns more than one grade of "U" or "F" in an academic term
4. Student is placed on probation for the third time
5. Student fails to successfully remediate any required course or clinical assignment
6. Student fails to achieve remediation for any reason within the designated time frame
7. Student demonstrates a pattern of unexcused absences from scheduled learning activities
8. Student demonstrates deficient ethical, professional or personal conduct

When the Associate Dean of Academic Affairs determines that a student has become eligible for dismissal according to the conditions listed above, he/she will call for a Dismissal Hearing, and so inform the affected student, the Assistant Dean of Student Affairs, and the Chair of the Student Performance Committee in a timely manner. The Student Performance Committee will schedule a hearing with the student in a timely manner after being notified and recommend a course of action to the Associate Dean of Academic Affairs. The Student Performance Committee may recommend dismissal in matters regarding student misconduct as well as academic performance (see General Academic Policies and Procedures section of the Catalog for more information, including special provisions for handling a dismissal hearing in situations of an allegation of misconduct).

The recommendation of the Student Performance Committee will either be to dismiss or not dismiss the student. In the event the recommendation is to dismiss the student, and the Associate Dean of Academic Affairs concurs, the student has the right to reconsideration of this decision to the Dean of the College of Optometry. If the recommendation is not to dismiss the student, then the Student Performance Committee may, in addition, recommend a range of actions from remediation of an individual course or activity to the repetition of an entire year in the program. The Associate Dean of Academic Affairs may concur with the recommendation of the Student Performance Committee or remand the matter to the Student Performance Committee if he/she becomes aware of new information or a procedural or process error.

The final decision for dismissal of a student is made by the Dean of the College of Optometry based on appropriate sources that may include individual faculty, the Associate Dean of Academic Affairs, the Assistant Dean of Student Affairs, and the Student Performance Committee. Students have the right to appeal a dismissal as specified in the University's General Academic Policies and Procedures.

A student who becomes eligible for dismissal, but is not dismissed immediately, will be considered to be on Probation.

### Probation

Students whose performance is not so poor as to render them eligible for dismissal will nevertheless be placed on *academic probation* for inadequate academic progress if any of the following occur:

Students will be placed on academic probation if any of the following occur:

1. Cumulative grade point average is below 2.00
2. Grade point average is below 2.00 in two consecutive semesters

3. Student earns a final course grade of U (Fail), F (Fail) or R (Remedial)
4. Student earns three or more final course grades of "D" in one semester
5. Student earns three or more final course grades of "D" within one curriculum track or course series (e.g., Optical Science)
6. Student earns two or more grades of I (Incomplete) in one semester

Students will be placed on *disciplinary probation* if any of the following occur:

1. A pattern of unexcused absences from scheduled learning activities is demonstrated
2. When a student demonstrates deficient ethical, professional or personal conduct

When the Associate Dean of Academic Affairs determines that a student is placed on probation according to the conditions listed above, he/she will call for a Probation Hearing, and so inform the affected student, the Assistant Dean of Student Affairs, and the Chair of the Student Performance Committee. Students who are on probation must meet with the Associate Dean of Academic Affairs to monitor progress at least once a month. It is the student's responsibility to contact the Associate Dean of Academic Affairs to arrange these meetings or contacts. Students on academic probation must bring their cumulative GPA to a 2.00 or greater average and satisfactorily remediate every failed course within two semesters of the imposition of academic probation in order to be removed from probation. If they do not meet these requirements, the student will be eligible for dismissal from the Doctor of Optometry program (see section on Eligibility for Dismissal above). Students on academic probation for any reason are not permitted to hold leadership positions in extra-curricular activities associated with the University and/or with professional associations.

### **Remediation**

The educational objectives that underlie remedial teaching and evaluation are the same as the educational objectives that underlie regular courses in the curriculum. Students who are placed on probation or who are eligible for dismissal may be given the opportunity to remediate their weaknesses when deemed appropriate. After consultation with the course instructor the Student Performance Committee may recommend one of the following means for remediation.

1. The taking, and passing, of a comprehensive examination
2. Completion of special projects or studies in the deficient area(s)
3. Repeating of the course or clinical assignment
4. Repeating of the academic year

The Associate Dean of Academic Affairs will decide the means for remediation. The grade(s) achieved in the remediation will be the grade(s) recorded on the student's transcript, except that the highest grade a student may earn by options 1 or 2 (above) is the lowest passing grade offered in the course. The grade(s) achieved by repeating a course or year will be recorded on the transcript with a notation identifying the original course grade. Grades earned during remediation of a course or clinical assignment will be reviewed critically by the Student Performance Committee.

A student who is required to repeat a course must be notified in writing by the Associate Dean of Academic Affairs at least fifteen (15) working days prior to the start date, or within fifteen (15) working days after the close of the academic year (June 30) in which the student is presently enrolled, whichever comes first. Notification must either be sent by Certified Mail or hand-delivered to the student and must be acknowledged with the signatures of the Associate Dean of Academic Affairs and the student.

If a student fails to achieve remediation within the designated time frame for any reason, then that student will automatically become eligible for dismissal and will be referred to the Student Performance Committee by the Associate Dean of Academic Affairs, as described above.

### **Readmission**

Students dismissed from the program for inadequate academic progress may apply to the Student Performance Committee for reinstatement. Students dismissed for the second time, or second-, third- or fourth-year students who have attained semester GPA's of less than 2.00 in more than 40 percent of the semesters enrolled, or students who have incomplete (I) grades in required courses will not be considered for readmission.

The Student Performance Committee, considering readmission, will stipulate the courses to be repeated and the level of performance that must be achieved. The final decision for readmission is made by the Associate Dean of Academic Affairs. Failure to achieve these requirements will result in permanent dismissal from the program. If permitted to return, students will immediately be placed on probation, and may be dismissed again any time their performance is unsatisfactory.

### **Graduation**

A student will be recommended for the degree Doctor of Optometry at Western University provided he/she:

1. has completed all required courses in the four year curriculum with a cumulative GPA greater than or equal to 2.00,
2. has no outstanding grade of "I", "U", or "F" in a required course,
3. has demonstrated appropriate ethical, professional, and personal conduct, as defined in the University Catalog, "General Academic Policies and Procedures" section, and
4. has complied with all the legal and financial requirements of the University as stated in the University Catalog and has paid all required fees.

Unless special permission has been granted by the President of the University, all students must participate in person in the commencement program at which the degree is conferred. If the President grants special permission to be excused from graduation,

the graduate may be required to present himself or herself at a later date to the Dean of the College of Optometry to receive the diploma and take the Optometric Oath.

## CURRICULUM

The curriculum at the College of Optometry is a four-year, full-time academic and clinical program leading to granting the degree of Doctor of Optometry (OD). The over-arching themes of the curriculum include:

1. Early entry into patient care
2. Integration of basic and clinical sciences
3. Interprofessional education in collaboration with other health disciplines
4. Preparation for entry-level optometry care along with a special emphasis on optometric rehabilitation

## Instructional Methods

A number of different instructional methods will be used to support optimal teaching and learning. Years one through three of the curriculum will include didactic lectures, biomedical laboratories, pre-clinical laboratories, small group learning, clinical education, and service learning. A variety of pedagogical techniques will be used including case-based learning, development of critical thinking techniques, and fostering of clinical thought processes. The fourth and final year of the curriculum will consist of full-time patient care experiences.

Because WesternU graduates are expected to practice in all states and regions, they must be prepared for the broadest scope of practice of any state in the United States. State optometric practice acts have been considered in the curriculum design. Mastery of advanced diagnostic techniques and cutting-edge clinical skills (as demonstrated through lab proficiencies) will enable graduates to practice full-scope optometric care.

A key to the proposed curriculum is to support and encourage collaboration between the various health professions.

Interprofessional integration will be incorporated into the curriculum in several areas. It is anticipated that in the first year of the curriculum, optometry students will be enrolled in several didactic courses with the medical, dental, and podiatric students, including:

- Introduction to the Study of Medicine
- Physician & Society
- Head & Neck Anatomy
- The Molecular and Cellular Basis of Medicine
- Introduction to Disease, Immunity & Therapeutics
- Neuroscience
- Behavioral Medicine & Psychiatry

Students in the first and second years of the curriculum will also engage in integrated case-based learning within small groups, which will include representatives from each of the health disciplines on the WesternU campus. In the first and third years of the program, students from the College of Optometry will be enrolled, along with students from all health professions, in courses that include a service learning component. The service learning curriculum will incorporate the design, implementation, and evaluation of community-based projects such as outreach to elementary schools and senior citizen groups. The service learning courses will include practical applications of health education, public health, epidemiology and biostatistics.

Interprofessional integration will also carry over to the clinical environment with the development of an interprofessional clinical service in the Patient Care Center, the on-campus facility. Faculty and students from different disciplines will learn from each other as they provide a team approach to the delivery of health care services. Videotaped patient care encounters that take place in the interprofessional clinic will form a unique digital case library for use in planned Interprofessional Grand Rounds.

The College of Optometry has incorporated into its mission a special emphasis on a unique learning opportunity: optometric rehabilitation. To set the foundation for a deeper understanding of neurological processes, students from the optometry program will enroll in the course, Neuroscience, which is presented in the medical school curriculum. This course integrates basic science disciplines of embryology, histology, neuroanatomy, biochemistry, physiology and pharmacology within a clinical context. Toward the goal of creating this special emphasis in optometric rehabilitation, the curriculum will also include didactic and laboratory instruction dedicated to the specialized discipline of optometric rehabilitation in the third year of the program. Ocular sequelae and visual consequences of neurological disease, along with perceptual problems and techniques for rehabilitation will be discussed. In addition to preparing students for full scope optometric practice, the clinical education curriculum will also include components emphasizing optometric rehabilitation. The on-campus clinical programs will also be developed to include hands-on training in optometric rehabilitative patient care and community-based opportunities for optometric rehabilitation, such as in rehabilitation hospitals.

## First Year, Fall Semester

IPE 5000	Patient Centered Cases – An Interprofessional Approach I (1.0 credit hour)
OPTM 5001	Introduction to the Study of Medicine (0.5 credit hour)
OPTM 5002	Physician and Society (1 credit hour)
OPTM 5003	Gross Anatomy (2.5 credit hours)
OPTM 5004	Head and Neck Anatomy (2 credit hours)
OPTM 5005	The Molecular and Cellular Basis of Medicine (9.5 credit hours)

OPTM 5021	Principles and Practice of Optometry I: Vision Screenings (2.5 credit hours)
OPTM 5022	Principles and Practice of Optometry II: Clerkship and Rehabilitation (3.5 credit hours)
OPTM 5031	Ocular Anatomy (2.5 credit hours)
OPTM 5032	Ocular Physiology (2.0 credit hours)
OPTM 5051	Optical Science I: Geometric Optics (3.5 credit hours)
OPTM 7001	Patient Care Services I (1.0 credit hour)

#### **First Year, Spring Semester**

IPE 5100	Patient Centered Cases – An Interprofessional Approach II (1.0 credit hour)
OPTM 5101	Introduction to Disease, Immunity and Therapeutics (7.5 credit hours)
OPTM 5102	Neuroscience (7.5 credit hours)
OPTM 5103	Behavioral Medicine and Psychiatry (1.5 credit hours)
OPTM 5121	Principles and Practice of Optometry III: Refraction (7.5 credit hours)
OPTM 5131	Ocular Pharmacology I: Diagnostics (0.5 credit hour)
OPTM 5141	Vision Science I: Neural Basis of Vision (3 credit hours)
OPTM 5151	Optical Science II: Mechanical Optics (1.5 credit hours)
OPTM 5161	Practice Management I (0.5 credit hour – course starts in Fall Semester)
OPTM 7002	Patient Care Services II (4 credit hours)

#### **Second Year, Fall Semester**

YPE 6000	Patient Centered Cases – An Interprofessional Approach III (1.0 credit hour)
OPTM 6021	Principles and Practice of Optometry IV: Tissue Evaluation of the Anterior Segment (6.5 credit hours)
OPTM 6031	Ocular Pharmacology II: Principles (1 credit hour)
OPTM 6041	Vision Science II: Monocular Sensory (5 credit hours)
OPTM 6042	Vision Science III: Development of Vision (2 credit hours)
OPTM 6043	Vision Science IV: Environmental Vision (1 credit hour)
OPTM 6051	Optical Science III: Physiological Optics (3.5 credit hours)
OPTM 6052	Optical Science IV: Physical Optics (3.5 credit hours)
OPTM 6071	Ocular Disease I: Diagnosis and Treatment of the Anterior Segment (3.5 credit hours)
OPTM 7003	Patient Care Services III (4 credit hours)

#### **Second Year, Spring Semester**

YPE 6100	Patient Centered Cases – An Interprofessional Approach IV (1.0 credit hour)
OPTM 6111	Contact Lenses I: Theory and Practice (5.5 credit hours)
OPTM 6122	Principles and Practice of Optometry V: Tissue Evaluation of the Posterior Segment (4.5 credit hours – coursework begins in Fall Semester with final grade given in Spring)
OPTM 6141	Vision Science V: Behavioral Optometry (3 credit hours)
OPTM 6151	Principles of Optical Dispensing and Management (1 credit hour)
OPTM 6152	Case-Based Ophthalmic Optics: Clinical Decision Making (1.5 credit hours)
OPTM 6171	Ocular Disease II: Diagnosis and Treatment of Glaucoma (3.5 credit hours)
OPTM 6182	Behavioral Optometry: Diagnosis and Treatment (8 credit hours)
OPTM 6191	CPR (0.5 credit hours)
OPTM 7004	Patient Care Services IV (4 credit hours)

#### **Second Year, Summer Semester**

OPTM 6241	Evidence Based Eye Care (2 credit hours)
OPTM 6261	Practice Management II (3.5 credit hours)
OPTM 7005	Patient Care Services V (5 credit hours)

#### **Third Year, Fall Semester**

OPTM 8011	Contact Lenses II: Theory and Practice (6 credit hours)
OPTM 8012	Special Considerations in Pediatrics (2.5 credit hours)
OPTM 8013	Special Considerations in Geriatrics (2.5 credit hours)
OPTM 8021	Special Procedures in Optometry (4 credit hours)
OPTM 8071	Neuro-Ocular Disease: Diagnosis and Treatment (2.5 credit hours)
OPTM 8072	Ocular Disease III: Diagnosis and Treatment of the Posterior Segment (3 credit hours)
OPTM 8081	Neuro-Optometric Rehabilitation I: Strabismus and Amblyopia (3.5 credit hours)
OPTM 8082	Neuro-Optometric Rehabilitation II: Patient with Neurological Damage (4.5 credit hours)
OPTM 7006	Patient Care Services VI (14 credit hours)

#### **Third Year, Spring Semester**

OPTM 8101	The Eye in Systemic Disease (2.5 credit hours)
OPTM 8102	Systemic Pharmacology: Top 40 Medications (1 credit hours)
OPTM 8111	Low Vision Rehabilitation (5 credit hours)
OPTM 8121	Patient Presentations in Primary Eye Care (4 credit hours)
OPTM 8161	NBEO Review (6 credit hours)

OPTM 8162	Elective I (1 credit hour)
OPTM 8163	Elective II (1 credit hour)
OPTM 8191	Service Learning III (0.5 credit hours)
OPTM 7007	Patient Care Services VII (13 credit hours)
<b><u>Fourth Year</u></b>	
OPTM 7008	Patient Care Services VIII (30 credit hours)
OPTM 7009	Patient Care Services IX (30 credit hours)
OPTM 7010	Patient Care Services X (30 credit hours)
OPTM 7011	Patient Care Services XI (30 credit hours)
OPTM 8261	Practice Management III: Web-based (1.5 credit hours)

The fourth year is comprised of full-time (40 hours per week) clinical instruction and learning experiences to include:

- Primary Care Clinical,
- Advanced Optometric Care,
- Specialty Optometric Care, and
- Community Optometric Care

### **Implementation**

Clinical faculty will implement the curriculum in a manner that balances the learning needs of the students and the educational resources available at the site. Clinical faculty and sites are encouraged to use a variety of teaching techniques including observation, monitored participation, video and audio recordings, computers, readings, individual discussions, and presentations by students, faculty and others to enhance learning.

### **Procedural Skills**

Part of the College's expectation is that students will gain a knowledge and understanding of various procedural skills. In addition to proficiency in the psychomotor aspects of procedural skills, the College expects that the student will understand the indications, contraindications, risks, benefits, and alternatives for various procedures. Student performance of any procedure on a patient must be under the direct supervision of the assigned clinical faculty or their professional designee.

### **COURSE DESCRIPTIONS**

Courses listed in this Catalog are subject to change through normal academic procedures. New courses and changes in existing course work are initiated by the faculty, reviewed and approved by the Curriculum Committee, the faculty, the Associate Dean of Academic Affairs, and the Dean of the College of Optometry.

#### **IPE 5000 Patient Centered Cases – An Interprofessional Approach I (1.0 credit hour, graded)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. The course is a graduate requirement for all health professional students.

#### **IPE 5100 Patient Centered Cases – An Interprofessional Approach II (1.0 credit hour, graded)**

#### **IPE 6000 Patient Centered Cases – An Interprofessional Approach III (1.0 credit hour, graded)**

Continuation of IPE 5100.

#### **IPE 6100 Patient Centered Cases – An Interprofessional Approach IV (1.0 credit hour, graded)**

Continuation of IPE 6100.

#### **OPTM 5001 Introduction to the Study of Medicine (0.5 credit hour, graded)**

This course provides a systematic strategy for the entering student to study medicine. Learning styles and critical thinking skills are evaluated and training on accessing electronic medical resources is given. Students from the optometry program will participate in sessions covering the following topics: professionalism, evaluating the medical literature, self awareness, learning styles, California Critical Thinking Test, and overview of medical literature resources.

#### **OPTM 5002 Physician and Society (1.00 credit hour, graded)**

This course provides an exploration of the role of health care providers in the larger society. The course explores philosophical and ethical issues of health care through its literature and history. The impact of health care on society and of society on health care is explored.

**OPTM 5003 Gross Anatomy (2.50 credit hours, graded)**

This course presents an understanding of the structure and arrangement of the gross anatomical features of the human body. Through lectures and laboratory examination of cadavers, students are introduced to the language of anatomy and to clinically important relationships. Models, radiographs and special demonstrations are employed to emphasize areas useful to the doctor of optometry.

**OPTM 5004 Head & Neck Anatomy (2.00 credit hours, graded)**

Through lecture and laboratory, students are introduced to the anatomy of the head and neck. Particular attention is paid to the cranial nerves, both their normal function and the numerous clinical syndromes that affect them. The anatomy lectures will also be supplemented with various clinical presentations.

**OPTM 5005 The Molecular and Cellular Basis of Medicine (9.50 credit hours, graded)**

This course presents an integration of molecular biology, biochemistry, cellular physiology and metabolism, introductory genetics and developmental histology within the context of their clinical applications of basic biomedical sciences.

**OPTM 5021 Principles and Practice of Optometry I: Vision Screenings (2.50 credit hours, graded)**

This course introduces the components of community-based vision screenings. The material presented prepares students to participate in the delivery of patient care. In this course, students acquire knowledge, technical skills, and professional attitudes through lecture and laboratory activities.

**OPTM 5022 Principles and Practice of Optometry II: Clerkship and Rehabilitation (3.50 credit hours, graded)**

This course introduces additional components of the primary care eye examination including visual acuity measurement, entrance testing, lensometry, and retinoscopy along with patient history taking and a problem oriented approach to clinical reasoning. Entry into ocular health assessment will include an external health evaluation, pupil testing, and an introduction to the direct ophthalmoscope. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included.

**OPTM 5031 Ocular Anatomy (2.50 credit hours, graded)**

This course presents in depth coverage of the anatomy and physiology of the eye, adnexa, and visual systems. Embryological development of these structures will also be covered. Topics include the anatomy and physiology of the eyelids, lacrimal apparatus, tear production, cornea and lens, ocular fluid dynamics, retina and optic nerve. Hands on laboratories will include eye dissection and viewing of histological specimens.

**OPTM 5032 Ocular Physiology (2.00 credit hours, graded)**

This course presents in depth coverage of the physiology of the eye, adnexa, and visual systems. Topics include the physiology of the eyelids, lacrimal apparatus, tear production, cornea and lens, ocular fluid dynamics, retina and optic nerve.

**OPTM 5051 Optical Science I: Geometric Optics (2.00 credit hours, graded)**

This course presents information on all aspects of geometric optics. The course emphasizes the basic study of refraction at plane and curved surfaces, thin lenses, thick lenses, lens systems, cylindrical lenses, prisms, and single refracting surfaces.

**OPTM 5101 Introduction to Disease, Immunity & Therapeutics (7.50 credit hours, graded)**

This is an integrated course introducing microbiology, immunology, pathology, and pharmacology to prepare students for more in-depth study during clinical science courses. Genetics, as related to these disciplines, is also included. Clinical applications of the basic sciences are emphasized.

**OPTM 5102 Neuroscience (7.50 credit hours, graded)**

This course presents basic understandings of the brain, spinal cord and peripheral nervous system. Basic science topics include embryology, histology, neuroanatomy, biochemistry, physiology and pharmacology. Clinical topics include infections of the nervous system, pathology, neurology, visual systems, otorhinolaryngology, and overviews of sleep disorders, cerebrovascular disorders, aging and dementia.

**OPTM 5103 Behavioral Medicine and Psychiatry (1.50 credit hours, graded)**

This course presents biological, psychological and social aspects of behavior in relation to the delivery of health care. The course addresses how a patient's behaviors contribute to their health and/or disease. Students from the optometry program will participate in sessions covering the following topics: cultural components of behavior, learning disorders, abuse, neglect, violence and trauma, disabilities.

**OPTM 5121 Principles and Practice of Optometry III: Refraction (7.50 credit hours, graded)**

This course builds upon the foundation established in Principles and Practice of Optometry I and II and introduces the fundamental aspects of a refractive sequence. The new techniques will be integrated within the context of the comprehensive eye examination

sequence and will introduce students to the clinical thought processes required to diagnose and manage common refractive conditions. Ocular health assessment will continue with basic undilated biomicroscopy. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included.

**OPTM 5131 Ocular Pharmacology I: Diagnostics (0.50 credit hours, graded)**

This course presents proper techniques for the instillation of eye drops and covers physiological mechanisms and practical considerations in the application of pharmaceutical agents topically applied to the eye for diagnostic purposes.

**OPTM 5141 Vision Science I: Neural Basis of Vision (3.00 credit hours, graded)**

This course presents the underlying mechanisms of vision from a neurophysiological perspective, including the construction of representations of the world via neural information processing from retina to tectum and primary visual cortex and to visual areas beyond striate cortex.

**OPTM 5151 Optical Science II: Mechanical and Ophthalmic Optics (1.5 credit hours, graded)**

This course presents the theory and application of ophthalmic optics. Lens power measurement, ophthalmic spectacle lens prescription writing, spectacle lens characteristics, and the optics of multi-focal lenses are covered in depth. The optics of contact lenses and magnification systems are also introduced. Spectacle frame selection, dispensing, and eyewear adjustment are included.

**OPTM 5161 Practice Management I (0.50 credit hour, graded – continued from Fall Semester)**

This course starts in the fall semester with a brief series that introduces professionalism and professional ethics specific to optometric practice will also be emphasized. It continues in the Spring semester, focusing on various modes of optometric practice, including an overview of opportunities for employed positions, group practices, and self-employment. Selection of a practice location, professional referrals, and relationships with other health care providers will be discussed.

**OPTM 6021 Principles and Practice of Optometry IV: Tissue Evaluation of the Anterior Segment (6.50 credit hours, graded)**

As the fourth course in the series, new material will be integrated within the context of the primary care optometric examination. Emphasis will be placed on health assessment of the anterior ocular segment including a variety of techniques of examination. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included.

**OPTM 6031 Ocular Pharmacology II: Principles (1.00 credit hours, graded)**

This course focuses on the pharmacodynamics and pharmacokinetics of agents used for the diagnosis and treatment of ocular conditions. Topics include general principles of drug penetration into the eye and drug elimination from the eye and systemic absorption of medications administered topically to the eye. Principles of drug administration including the use of ophthalmic suspensions and ointments, oral medications, and injectables will be discussed.

**OPTM 6041 Vision Science II: Monocular Sensory (5.00 credit hours, graded)**

This course sets the foundation for the theory and methods of vision testing and visual perception through one eye. It covers concepts including light stimuli, photometry, signal detection, physiological processing of information, and psychophysics. Visual perception and the constancy of visual processes such as size and distance perception, form perception, the perception of motion and achromatic color perception are discussed. Electrophysiology of the visual system will be introduced.

**OPTM 6042 Vision Science III: Development of Vision (2.00 credit hours, graded)**

This course covers the development of visual function from conception through adolescence. Implications of abnormal development and resulting clinical pathologies are discussed. The physiological and psychological bases of strabismus and amblyopia are presented and reinforced through clinical examples.

**OPTM 6043 Vision Science IV: Environmental Vision (1.00 credit hours, graded)**

This course furthers the understanding of the interaction between vision and the environment. Topics include visual sensitivity, light and dark adaptation, spatial phenomena, modulation transfer function, flicker detection, contrast sensitivity, and visual acuity. Visual ergonomics, illumination, and lighting standards will be covered.

**OPTM 6051 Optical Science III: Physiological Optics (3.50 credit hours, graded)**

Physiological optics of the eye and an introduction to the correction of ametropias will be presented. The various axes, angles, and landmarks of the eye will be presented in optical terms with the eye as an optical system. Characteristics of the ocular media and the interaction of light with the eye will be discussed. Optical aspects of accommodation, presbyopia, aphakia, and pseudophakia will be included. The role of the pupil as it affects depth of field, aberrations and accommodation will be described.

**OPTM 6052 Optical Science IV: Physical Optics (3.50 credit hours, graded)**

This course presents the physics of light, including the characteristics of electromagnetic radiation, interference, diffraction, polarization, lasers, and anti-reflection lens coatings.

**OPTM 6071 Ocular Disease I: Diagnosis and Treatment of the Anterior Segment (3.50 credit hours, graded)**

This course builds upon the framework presented in the Principles and Practice of Optometry curricular track to present advanced concepts in ocular disease diagnosis and management. The anatomical, physiological, histological, and pathological processes of ocular disease of structures at the front of the eye will be emphasized. Laboratory experience in imaging of the lens and anterior segment will be presented.

**OPTM 6111 Contact Lenses I: Theory and Practice (5.50 credit hours, graded)**

This course introduces the use of contact lenses in primary care optometry. The clinically based approach will include discussion of patient selection for lens wear, selection of appropriate materials, lens design, wearing schedules, and trouble-shooting. Laboratory experience in lens design, lens modifications, contact lens fittings and assessments will prepare students for patient care experiences.

**OPTM 6122 Principles and Practice of Optometry V: Tissue Evaluation of the Posterior Segment (4.50 credit hours, graded)**

As the fifth course in the series, new material will be integrated within the context of the primary care optometric examination. Emphasis will be placed on health assessment of the posterior ocular segment and the optic disc. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included.

This course completes the integration of clinical skills into the complete primary care eye examination. Ocular health assessment including tonometry, gonioscopy, binocular indirect ophthalmoscopy, and techniques for assessing the retina such as the use of the 78D lens, 90D lens, and three-mirror and four-mirror lenses will be emphasized. The diagnosis and management of common ocular health conditions affecting the vitreous and retina and the clinical thought processes for patient care will be incorporated. Strategy of the examination, sequencing, patient communication, and medical record keeping will be included. Work in this course begins in the preceding Fall Semester, however, registration and receipt of the final grade occurs in the Spring Semester.

**OPTM 6141 Vision Science V: Behavioral Optometry (3.00 credit hours, graded)**

This course covers concepts related to accommodation, binocular vision, and ocular motility. Concepts including the horopter, stereopsis, vision, rivalry, and aniseikonia are covered. The anatomy and physiology of the extraocular muscles, innervations and actions associated with types of eye movements and their control mechanisms are reviewed. Concepts of clinical assessment, diagnosis, and management are introduced. Case examples are used to illustrate key concepts.

**OPTM 6151 Principles of Optical Dispensing and Management (1.00 credit hours, graded)**

The course covers the theory and methods of managing an optical dispensary for patient satisfaction and profit.

**OPTM 6152 Case-Based Ophthalmic Optics: Clinical Decision Making (1.50 credit hours, graded)**

This course presents cases and examples of patients with eye glass concerns. Students will work in small groups to troubleshoot and remediate the needs of the patient through the application of ophthalmic optics formulas and principles.

**OPTM 6171 Ocular Disease II: Diagnosis and Treatment of Glaucoma (3.50 credit hours, graded)**

This course covers the pathophysiology, diagnosis, treatment and management of patients with all forms of glaucoma, with an emphasis on evidence-based therapeutic interventions. Topical and systemic medical therapies will be emphasized. The course will also discuss current surgical management of various forms of glaucoma.

**OPTM 6182 Behavioral Optometry: Diagnosis and Treatment (8.00 credit hours, graded)**

This course introduces the common signs and symptoms associated with non-strabismic disorders of the binocular, accommodative, and perceptual systems. Diagnosis, treatment, management and problem solving for common conditions will be introduced. Techniques for vision therapy and vision therapy programming will be discussed.

**OPTM 6191 CPR (0.50 credit hours, Pass/Fail)**

This course covers basic cardiopulmonary resuscitation for adults and children.

**OPTM 6241 Evidence Based Eye Care (2.00 credit hours, Honors/Pass/Remedial/Fail)**

This course will emphasize the application of published literature to clinical decision making. Students will learn how to select and critique appropriate and relevant information within the context of patient care scenarios. Strategies for informed clinical decision making and for life-long learning will be demonstrated.

**OPTM 6261 Practice Management II (3.50 credit hours, graded)**

This practical seminar-style course will bring experts from the fields of marketing, management, finance, and law to help students develop personal strategies for their professional futures. Professional goal-setting, networking, and leadership will be emphasized.

**OPTM 7001 Patient Care Services I (1.00 credit hour, Honors/Pass/Remedial/Fail)**

Students will spend 8 hours per week for 7 weeks participating in community-based vision screenings. Techniques learned in Principles and Practice of Optometry 1 will be applied in the delivery of patient care via screenings. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7002 Patient Care Services II (4.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to 4 hours per week in the off-campus clinics or optometric practices and in the on-campus clinical facility performing entrance testing and assisting in the optical dispensary service. Students will be supervised by licensed optometrists who are faculty or members.

**OPTM 7003 Patient Care Services III (4.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to 4 hours per week of patient care service and will participate in a variety of activities including community-based screenings, technician and paraoptometric responsibilities in the on-campus clinical facility, and a clerkship program with local optometric practices. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7004 Patient Care Services IV (4.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to 4 hours per week of patient care services with increasing roles and responsibilities. Activities will include community-based eye care, clerkship programs, and will transition to the provision of complete eye examinations by the end of the spring semester. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7005 Patient Care Services V (5.00 credit hours, Honors/Pass/Remedial/Fail)**

To facilitate the transition to assuming the role the primary examiner, students will be assigned to primary eye care services 32 hours per week for 7 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7006 Patient Care Services VI (14.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to 12 hours per week of patient care in primary eye care, contact lenses, and vision therapy. Students will assume an increasing role and increasing responsibility for the delivery of patient care. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7007 Patient Care Services VII (13.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to 12 hours per week of patient care in primary eye care, contact lenses, and vision therapy. Students will assume an increasing role and increasing responsibility for the delivery of patient care. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7008 Patient Care Services VIII (30.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7009 Patient Care Services IX (30.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7010 Patient Care Services X (30.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

**OPTM 7011 Patient Care Services XI (30.00 credit hours, Honors/Pass/Remedial/Fail)**

Students will be assigned to full-time clinical rotations providing patient care in primary eye care, specialty eye care, and rehabilitation. The order of rotations will vary by student assignment and will change every 12 weeks. Assignments may be made at

the on-campus clinical facility or in affiliated clinical sites. Students will be supervised by licensed optometrists who are faculty or adjunct clinical faculty members.

#### **OPTM 8011 Contact Lenses II: Theory and Practice (6.00 credit hours, graded)**

This course builds upon the basic knowledge presented in Contact Lenses 1. Case examples will be used to encourage independent decision making for complicated problems in contact lens fitting. Strategies for specialized contact lenses including keratonic lenses, therapeutic lenses, post-surgical patients and contact lenses for infants will be discussed.

#### **OPTM 8012 Special Considerations in Pediatrics (2.50 credit hours, graded)**

This course emphasizes the optometric care of patients from birth through age eight. The identification of children at risk for developing ocular, visual, perceptual, or visually-related learning problems will be integrated with a discussion of strategies for diagnosis and management. Schema of normal growth and development with an emphasis on expected visual development from birth through childhood will be presented. Particular emphasis will be placed on prevalent conditions, and conditions with a high level of clinical criticality. An overview of care for children with special needs will also be presented. Examination techniques unique to the pediatric patient, including the use of hand-held instrumentation, special testing, and the provision of eye care in the school system will be discussed.

#### **OPTM 8013 Special Considerations in Geriatrics (2.50 credit hours, graded)**

This course will discuss the changes expected in the visual system associated with the aging process. Diagnosis and treatment of selected refractive conditions, eye diseases, and visual anomalies common in aging adults will be presented. Psychosocial aspects and geriatric case management will be incorporated into case examples. Examination techniques unique to the geriatric patient, including the use of hand-held instrumentation, special testing, and the provision of eye care in long term care facilities will be discussed.

#### **OPTM 8021 Special Procedures in Optometry (4.00 credit hours, graded)**

This course will cover the theory and methods of clinical techniques that build upon basic examination skills acquired during the courses Principles and Practice of Optometry I through 5. Clinical techniques including sclera depression, punctal occlusion, punctal dilation and irrigation, removal of foreign bodies from the cornea and conjunctiva, and injection techniques will be presented in a hands-on format.

#### **OPTM 8071 Neuro-Ocular Disease: Diagnosis and Treatment (2.50 credit hours, graded)**

A problem-oriented approach is used to explore the diagnosis and treatment of oculomotor, accommodative, sensory, and vergence problems. The diagnosis and management of strabismus and amblyopia will also be presented. Advanced assessment of associated anomalies such as eccentric fixation, suppression, anomalous correspondence, and nonconcomitancy is presented. The rationale and methods for various treatment strategies will be presented.

#### **OPTM 8072 Ocular Disease III: Diagnosis and Treatment of the Posterior Segment (3.00 credit hours, graded)**

This course builds upon the framework presented in the Principles and Practice of Optometry curricular track to present advanced concepts in ocular disease management. The anatomical, physiological, histological, and pathological processes of ocular disease will be emphasized. Topics include in-depth discussion of diseases and abnormalities of the lids, cornea, conjunctiva, sclera, episclera and lens. Pathophysiology and management of glaucoma is also included. Laboratory experience in advanced visual field assessment and interpretation of the results and imaging of the lens and anterior segment will be presented. Clinical techniques including ocular cultures, punctal occlusion, punctal dilation and irrigation, foreign body removal, and injection techniques will be presented in a hands-on format.

#### **OPTM 8081 Neuro-Optometric Rehabilitation I: Strabismus and Amblyopia (3.50 credit hours, graded)**

This course builds on the knowledge and skills developed in the course, Behavioral Optometry Diagnosis and Treatment, and extends the application of that knowledge and those skills to the strabismic disorders and amblyopia. Topics will include differential diagnosis of congenital and acquired strabismus and the etiology and differential diagnosis of amblyopia, as well as a comprehensive presentation of evidence-based treatment options for both strabismus and amblyopia.

#### **OPTM 8082 Neuro-Optometric Rehabilitation II: Patient with Neurological Damage (4.50 credit hours, graded)**

This course elaborates on the complexities of optometric care for patients who have suffered neurological impairment from a variety of etiologies. Ocular sequelae and the visual consequences of neurological disease will be discussed. Perceptual problems associated with dyslexia, reading and learning disabilities, developmental abnormalities, stroke, Alzheimer's disease, and traumatic brain injury will be explored. Co-management and interprofessional communications will be discussed. Practical aspects of neurological evaluation and assessment of the cranial nerves is included in the laboratory portion. Tests for cognitive function, memory, and perception will be discussed. Various methods and techniques for rehabilitation will also be presented in a hands-on format.

**OPTM 8101 The Eye in Systemic Disease (2.50 credit hours, graded)**

This course presents an overview of the most prevalent systemic conditions, and systemic conditions with significant ocular manifestations. Pathophysiology, clinical signs and symptoms, and an overview of diagnostic and management approaches will be presented. Emphasis will be placed on inter-professional communications for management of complex conditions.

**OPTM 8102 Systemic Pharmacology: Top 40 Medications (1.00 credit hour, graded)**

This course will cover medications commonly prescribed for systemic conditions, their indications and mode of action, as well as their ocular and visual side effects and toxicities.

**OPTM 8111 Low Vision Rehabilitation (5.00 credit hours, graded)**

This course presents examination techniques and management strategies for people with visual impairments. Principles of optical and non-optical assistive devices and applications of rehabilitative services will be discussed. Psychosocial aspects and interdisciplinary care are included. Evaluation of visual disability and legal aspects of visual impairment will be discussed. The laboratory experience will provide hands-on opportunities to learn about rehabilitation techniques.

**OPTM 8121 Patient Presentations in Primary Eye Care (4.00 credit hours, graded)**

This course reviews information previously taught in the curriculum but reorganizes it on the basis of patient presentation. Topics include the patient who presents with blurry vision, loss of vision, diplopia, anisocoria, facial asymmetry, eye or head pain, asthenopia, and red eye. The emphasis of the course is on differential diagnostic thought processes and the problem-focused case history. Key questions to ask and formal algorithms for diagnosis will be presented for each presentation.

**OPTM 8161 NBEO Review (6.00 credit hours, graded)**

This course will cover previously taught material that is relevant to Part I of the National Board of Examiners in Optometry and will include review of factual material as well as sample test items prepared by the course instructor(s).

**OPTM 8162 Elective I (1.00 credit hour, graded)**

Students may choose from a variety of course offerings to further their understanding of contemporary topics in optometry or in health care. Courses will be offered on topics relevant to students enrolled in all health professions programs and will encourage further interdisciplinary interactions. Topics may include, but are not limited to, nutrition, genetics, Spanish for health care providers, health care for vulnerable populations, international health, and so on.

**OPTM 8163 Elective II (1.00 credit hour, graded)**

Students may choose from courses in health care topics or in advanced optometric topics such as co-management of refractive surgery patients, advanced contact lens techniques, clinical grand rounds, etc.

**OPTM 8191 Service Learning III (0.50 credit hour, graded)**

Service learning will culminate in the final formalized experience in community involved learning. Students will reflect upon their experiences and the impact service learning has had on their own personal and professional development through the preparation of a capstone portfolio.

**OPTM 8261 Practice Management III: Web-based (1.50 credit hours, graded)**

This course will provide information relevant to entry into the business of clinical optometric practice, including information on billing and coding, employee relations, how to navigate the process of becoming a panel member, considerations in partnership formation, leasing and managing the facilities, entrepreneurship, sales and marketing of spectacles, contact lenses, and vision therapy, and tips on how to grow a patient base.

**ACADEMIC CALENDAR**  
**2010-2011 Academic Year**  
(subject to change)

**Fall, 2009**

Monday, Aug. 2 – Friday, Aug. 6, 2010  
Orientation

Saturday, Aug. 7, 2010  
Convocation/White Coat Ceremony

Monday, Aug. 9, 2010  
Fall Semester begins

Monday, Sept. 6, 2010  
Labor Day (no classes)

Monday, Oct. 11, 2010  
Columbus Day (no classes)

Thursday, Nov. 25 – Friday, 26, 2010  
Thanksgiving  
(classes end Wed, Nov. 24, 5 pm)

Friday, Dec. 17, 2010  
Last day of Fall Semester classes/Winter Recess begins

**Spring, 2011**

Monday, Jan. 3, 2011  
Spring Semester begins

Monday, Jan. 17, 2011  
Martin Luther King Day Holiday (no classes)

Monday, Feb. 21, 2011  
President's Day (no classes)

Monday, Mar. 21 – Friday, Mar. 25, 2011  
Spring Break

Friday, May 27, 2011  
Last day of Spring Semester classes

**THE OPTOMETRIC OATH**

With full deliberation I freely and solemnly pledge that: I will practice the art and science of optometry faithfully and conscientiously, and to the fullest scope of my competence. I will uphold and honorably promote by example and action the highest standards, ethics and ideals of my chosen profession and the honor of the degree, Doctor of Optometry, which has been granted me.

I will provide professional care for those who seek my services, with concern, with compassion and with due regard for their human rights and dignity.

I will place the treatment of those who seek my care above personal gain and strive to see that none shall lack for proper care.

I will hold as privileged and inviolable all information entrusted to me in confidence by my patients.

I will advise my patients fully and honestly of all which may serve to restore, maintain or enhance their vision and general health.

I will strive continuously to broaden my knowledge and skills so that my patients may benefit from all new and efficacious means to enhance the care of human vision.

I will share information cordially and unselfishly with my fellow optometrists and other professionals for the benefit of patients and the advancement of human knowledge and welfare. I will do my utmost to serve my community, my country and humankind as a citizen as well as an optometrist.

I hereby commit myself to be steadfast in the performance of this my solemn oath and obligation.

*Adopted by the American Optometric Association*

# **COLLEGE OF OSTEOPATHIC MEDICINE OF THE PACIFIC**

## **Doctor of Osteopathic Medicine Program**

### **ACCREDITATION**

The academic program of Western University of Health Sciences' College of Osteopathic Medicine of the Pacific is accredited by the Commission on Osteopathic College Accreditation (COCA) of the American Osteopathic Association, which is recognized by the United States Department of Education (USDE).

### **THE OSTEOPATHIC PHILOSOPHY**

Osteopathic medicine is a contemporary school of medical thought and practice, founded on the concept that the normal state of a person is health. The philosophy of osteopathic medicine has its roots in antiquity, long before the life of its founder, Dr. Andrew Taylor Still. The philosophy of Dr. Still can be directly related to the concepts and teachings of the Greek physician-philosopher, Hippocrates. This "father of medicine" taught that disease is a natural process and that natural powers are the healers of disease. The physician must assist nature, said Hippocrates, but attention should be focused on the patient rather than on the disease. Dr. Still revived the concept of patient-centered care, making it the cornerstone of osteopathic medicine and giving it new meaning and implementation with a unique system of diagnosis and treatment.

Fundamental principles of osteopathic diagnosis and treatment include the following:

1. The body tends to be self-healing and self-regulatory. The ability to maintain physiologic integrity in a continually changing external environment is mediated through an elaborate internal communication network that unifies the body. The circulatory and neuromusculoskeletal systems play an integral role in this process.
2. Intimate interrelationships exist between structure and function at all levels of biologic organization.
3. Health is an equilibrium state and maintaining this state requires constant biological adjustment.
4. Abnormalities of the neuromusculoskeletal system are invariably present during disease. Osteopathic manipulation can restore the structural integrity of the tissues, enabling the body's inherent healing mechanisms to restore the patient to a state of health.

While employing osteopathic manipulation, the osteopathic physician also utilizes other recognized modalities for diagnosis and treatment, taking into account other factors such as the patient's preferences, developmental stage, family history, and social environment, as appropriate.

### **COLLEGE MISSION**

The mission of Western University's College of Osteopathic Medicine of the Pacific (COMP) is to prepare students to become technically competent, culturally sensitive, professional and compassionate physicians who are life-long learners and will serve society by providing comprehensive, patient-centered health care with the distinctive osteopathic philosophy. This is accomplished through excellence in curriculum, translational research, service and osteopathic clinical practice.

#### **Core Competencies Supporting WesternU/COMP's Mission Statement**

- Medical Knowledge
- Osteopathic Philosophy and Manipulative Medicine
- Patient Centered Care
- Professionalism
- Interpersonal and Communication Skills
- Practice-based Learning and Improvement
- Systems-Based Practice
- Interprofessional Collaboration

#### **Strategic Plan in Support of the Mission and Core Competencies**

Western University/COMP's ten-year strategic plan, published in 2004, emphasizes the three core functions of the College: educational programs (curriculum), biomedical research, and faculty clinical practice. Western University/COMP has been on target or has exceeded the goals outlined in this plan by reaching specific milestones including: excellent student achievement on the Comprehensive Osteopathic Medical Licensing Examination (COMPLEX), student satisfaction surveys, improved student-faculty ratios, and quality original bench research, new state-of-the-art classrooms and study spaces in the Health Education Center, and a significantly expanded faculty practice plan with the newly added Patient Care Center.

### **CURRICULAR GOALS**

The goal of Western University/COMP's four year curriculum is to prepare each student with the knowledge, attitudes and skills to excel in his or her chosen postdoctoral training program. Specifically, the student will be able to:

- Identify the wide range of variation in normal human anatomy and physiology.
- Recognize, diagnose and treat the most commonly encountered health conditions in a primary care practice.
- Recognize, diagnose and treat the acute, life-threatening conditions encountered by the primary care physician.
- Differentiate common health problems from less common diseases.
- Recognize conditions or situations best handled by consultation and/or referral.
- Provide continuity of health care beginning with the initial patient contact.
- Assess and treat chronic health conditions in various stages of progression.
- Develop appropriate, professionally intimate relationships with patients.
- Understand a patient's individual concerns and incorporate those concerns into patient care.
- Routinely integrate osteopathic philosophy and practices into routine patient care.
- Access medical references to understand current medical knowledge and applications.
- Understand and apply the concepts of community oriented primary care, epidemiology, health screening and prevention.
- Understand and work with the family unit to improve the health and welfare of the individual patient and his or her family.

## **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

A candidate for admission to Western University/COMP's Doctor of Osteopathic Medicine Program must possess, or be able to achieve through reasonable accommodation, certain sensory and motor functions, enabling him or her to carry out the activities described in the sections that follow. Graduation from the program signifies that the individual is prepared for entry into osteopathic postgraduate training. It therefore follows that graduates must have the knowledge and skills needed to function in a broad variety of clinical situations and be able to render a wide spectrum of osteopathic patient care. The osteopathic medical student must be able to consistently, quickly, and accurately integrate all information received by whatever sense(s) employed. Also, he or she must have the intellectual ability to learn, analyze, synthesize and apply various types of information in the context of patient care.

A candidate for the DO degree must exhibit abilities and skills in the five areas identified below, with or without reasonable accommodation. Under all circumstances, a candidate should be able to perform the following in a reasonably independent manner:

**Observation:** Candidates and students must have sufficient vision to be able to observe demonstrations, experiments, and microscopic laboratory exercises. They must be able to observe a patient accurately at a distance and close at hand.

**Communication:** Candidates and students must be able to communicate with patients and colleagues. They must be able to hear and speak, and be fluent in the English language.

**Motor:** Candidates and students must have sufficient motor functions to enable them to execute movements that are reasonably required to provide general and emergency treatment of patients (i.e., palpation, auscultation, percussion, and other diagnostic and therapeutic modalities). Examples of procedures reasonably required of osteopathic students and physicians include, but are not limited to: physical examination in the acute and non-acute settings, cardiopulmonary resuscitation, insertion of a variety of catheters, administration of intravenous medication, application of pressure to stop bleeding, opening obstructed airways, suturing wounds and surgical incisions, performance of obstetrical maneuvers and performance of osteopathic diagnosis and manipulation. These actions require coordination of both gross and fine muscular movements, equilibrium, and functional use of the senses of touch and vision.

**Intellectual, Conceptual, Integrative, and Quantitative Abilities:** Candidates and students must demonstrate problem solving skills, which involve intellectual, conceptual, integrative and quantitative abilities. These abilities include memory, calculation, reasoning, analysis, and synthesis. In addition, candidates and students must be able to comprehend three-dimensional relationships and be able to understand and manipulate the spatial relationships of structures.

**Behavioral and Social Attributes:** Candidates and students must possess the emotional health required for full utilization of their intellectual abilities. They must show evidence that they can exercise good judgment and promptly complete all responsibilities involved in the education process and attendant to the assessment and care of patients. Candidates and students must also demonstrate that they can develop mature, sensitive, and effective relationships with faculty, staff, colleagues, and patients. Additionally they must be able to tolerate physically and mentally taxing workloads, adapt to changing environments, display flexibility, and function in the face of the uncertainties inherent in patient care. Compassion, integrity, concern for others, interpersonal skills, interest, and motivation are some of the personal qualities that will be assessed during the admissions and educational processes.

The Doctor of Osteopathic Medicine program, along with all other programs at Western University of Health Sciences, shares a commitment to opening the DO curriculum to competitive, qualified individuals with disabilities. However, in doing so, the DO degree program must also maintain the integrity of its curriculum and preserve those elements deemed essential to educating candidates to become effective osteopathic physicians.

## **ADMISSIONS POLICIES AND PROCEDURES**

Western University/COMP accepts applications from all qualified candidates. However, many more applications are received from qualified candidates than can be admitted. While grades and Medical College Admission Test (MCAT) scores are important in selecting candidates for admission, the Admissions Committee recognizes that these statistics, by themselves, do not guarantee later success as a physician. Therefore, non-academic criteria are also important in making the selection. Western University/COMP seeks a diverse and balanced student population and considers factors additional to academic performance, such as a well-rounded background, work experiences, letters of recommendation, interest in and knowledge of osteopathic medicine, and professional

promise. To help ascertain these factors, an interview conducted on campus is required. The College also has discretion to rely upon additional considerations.

Western University/COMP does not discriminate on the basis of age, gender, race, color, national origin, religion, creed, handicap (disability), or sexual orientation in any of its policies, procedures, or practices. Additionally, in accordance with sex discrimination laws, Western University/COMP will not tolerate acts of sexual harassment. This non-discrimination policy covers admission, access, and service in the University programs and activities, as well as application for and treatment in University employment.

### **Entrance Requirements**

Candidates for admission to Western University/COMP must meet these requirements at the time of application:

- Completion of ninety semester hours, or three-fourths of the credits required for a baccalaureate degree, from a regionally accredited college or university.
- Completion of one academic year (or its equivalent) in English, biology, physics, inorganic chemistry, organic chemistry, and behavioral sciences.
- One semester of biochemistry and of genetics is highly recommended.

Applicants must submit their Medical College Admission Test (MCAT) scores. Information concerning this test may be obtained from the pre-professional advisor at the applicant's college or directly from the MCAT Program Office. This examination is offered between January and September. Applicants are encouraged to take the examination in the spring of their junior year. However, to be considered for admission, the MCAT examination must be taken prior to January of the entering year.

Although grades and MCAT scores are just two factors used in the evaluation process, Western University/COMP seeks students who have shown high quality academic performance. Typically candidates accepted for admission will have completed four or more years of pre-professional study and received at least a bachelor's degree at an accredited college or university prior to matriculation. Successful candidates for the most recent entering class averaged a science GPA of 3.5, an overall GPA of 3.6, and a mean MCAT score of 9.3 for each discipline.

### **AACOMAS and Secondary Applications**

Western University /COMPparticipates in a centralized application service through AACOMAS, the American Association of Colleges of Osteopathic Medicine Application Service ([www.aacom.org](http://www.aacom.org)). Individuals interested in applying to Western University/COMP can click on the "Applicants" are of this website for information and application materials. Applicants complete an online application and AACOMAS will submit it to Western University/COMP or any other osteopathic medical schools chosen. Applicants must also arrange to have official MCAT scores and transcripts from all prior undergraduate and graduate institutions released to AACOMAS.

Upon receipt of the initial application and transcript(s), AACOMAS will collate materials, compute grades, and transmit standardized information to the applicant and to his or her designated osteopathic medical colleges. AACOMAS takes no part in the evaluation or selection of applicants. Western University/COMP conducts a review of the AACOMAS applications received, and eligible applicants may be requested to supply the following additional information for consideration by the Admissions Committee.

- A supplementary application provided by Western University/COMP submitted with a non-refundable fee of \$65.
- An evaluation of the applicant's work and accomplishments submitted by the Pre-Health Professions Committee of the applicant's college. If the college has no such committee, the applicant may submit an evaluation from one classroom professor in the sciences.
- A letter of recommendation from a physician, with strong preference given to a letter from a DO.

All required supplementary information must be returned within 30 days.

After the applicant's file is complete, the Admissions Committee will determine if the candidate will be invited to attend an Interview Day on campus. The interviewee must come to the campus at his or her own expense. Interview days are typically conducted on Thursday or Saturday. The interviewee should plan to spend a full day on campus and attend all activities, which typically include information on the curriculum, clinical rotations, financial aid and student services, a demonstration of osteopathic manipulative therapy, a tour of the campus, lunch with a Western University/COMP student, and a personal interview conducted by members of the faculty, staff, and students. Following this visit, the Admissions Committee will evaluate the candidate's application and review by the interviewers. A candidate will be notified regarding the status of his or her application approximately three weeks after his or her interview.

If an applicant is accepted for admission, but subsequently does not successfully complete the required coursework prior to the start of COMP's academic year, falls out of good standing with his or her current institution, fails to submit required documentation or any additional requested items by the stated deadlines, or fails a criminal background check, the acceptance offer will be rescinded by Western University/COMP.

If it is subsequently found that any portion of the application material has been falsified, the individual is subject to dismissal, regardless of his or her current status in Western University/COMP's program.

Decisions of the Admissions Committee and the Dean regarding admission into Western University/COMP's Doctor of Osteopathic Medicine program are final.

## **Transfers from Other Schools**

Western University/COMP offers a transfer program for persons who have completed one or more years of medical studies at a medical school that is accredited by the American Osteopathic Association (AOA) or Liaison Committee on Medical Education (LCME). Applications will be considered on a case-by-case basis. Factors to be considered include Western University/COMP's accreditation standards on class size, curricular compatibility, and the availability of clinical training sites.

Candidates seeking transfer must be in good academic standing at the school where they are currently enrolled and be eligible for continuation there. Applicants must contact Western University/COMP's Admissions Office prior to submitting the AACOMAS application.

Transfers from an LCME-accredited medical school or another osteopathic college to Western University/COMP must complete no less than the last fifty-percent (50%) of instruction at Western University/COMP. In the case of transfers from LCME-accredited schools, all requirements for osteopathic manipulative medicine training must be completed before graduation.

Applicants wishing to transfer into the OMS II year must submit the primary application to AACOMAS before January 1 and submit the supplementary application before March 1. Applicants wishing to transfer into the OMS III year must submit the application to AACOMAS before September 1 and the supplementary application before January 1. Requests for transfer into the fourth year are not accepted.

Transfer candidates must provide:

- Official transcripts from all colleges and universities attended.
- Official transcripts showing the successful completion of studies at the medical school where currently enrolled.
- Academic schedules, outlines and syllabi from their current program (as requested).
- A completed transfer supplementary application, accompanied by a \$65 non-refundable application fee.
- A letter of good academic standing from the Academic Dean of the osteopathic or allopathic medical school where currently enrolled (as requested).
- Proof of COMLEX Level I registration with the examination scheduled to be taken at a date prior to the start of the clinical training academic year in June.

If an interview is granted, a candidate must come to the campus at his or her own expense and should plan to spend a full day on campus for the Interview Day activities (see the preceding section for details). Following this visit, the Admissions Committee will evaluate the candidate's application and review by the interviewers. Acceptance of a transfer student will depend upon the compatibility of the applicant's current curriculum and training, the student's current academic good standing and qualifications, and available space in Western University/COMP's class. A candidate will be notified regarding the status of his or her application approximately three weeks after being interviewed.

If a candidate is accepted for transfer, but subsequently does not successfully complete the required coursework required prior to transfer, falls out of good standing with his or her current institution, fails to submit required documentation or any additional requested items by stated deadlines, or fails a criminal background check, the transfer offer will be rescinded by Western University/COMP.

If it is subsequently found that any portion of the application material has been falsified, the individual is subject to dismissal regardless of his or her current status in Western University/COMP's program.

Decisions of the Admissions Committee and the Dean regarding transfer into Western University/COMP's Doctor of Osteopathic Medicine program are final.

## **International Students**

Applications from international students are eligible for consideration for admission to the Western U/COMP Doctor of Osteopathic Medicine program. International applicants are required to meet all standards for admission listed above. Additionally, they must obtain a course-by-course evaluation from an approved agent prior to completing the AACOMAS application. The evaluation must indicate whether the course is undergraduate, graduate or professional. Course evaluations are accepted from only two services: World Education Service and Joseph Silny & Associates. These services provide AACOMAS with an analysis of the U.S. equivalents of the work that was completed outside of the United States. These evaluation services require that official transcripts be sent directly from the educational institution in order to evaluate the academic record. An official copy of the analysis is also required by Western University/COMP upon acceptance.

If an international applicant is currently enrolled in a foreign medical college, no part of that medical curriculum can be used to fulfill any part of Western University/COMP's academic requirements for granting a Doctor of Osteopathic Medicine degree.

## **REGISTRATION**

All incoming and continuing students are required to register by the date(s) specified by the University Registrar.

In compliance with the standardized nomenclature of the American Osteopathic Association (AOA), matriculants receive the designation Osteopathic Medical Student (OMS) followed by the current year in the program. A first-year student is designated OMS I, and so on.

Incoming (new and transfer) students must provide, at their own expense, the following items in order to register:

- A complete set of official final transcripts from all post-secondary schools attended, which must be received by the Admissions office prior to July 1
- A completed form documenting a recent physical examination performed by a licensed practitioner.

- Documentation that all required vaccinations/immunizations are current.
- Proof of health insurance coverage, which must remain in effect throughout the academic year (Students without proof of health insurance can buy a policy through Western University).
- Successful completion and passage of a criminal background check and drug screening (as directed by the Admissions Office).

Students entering the OMS III year must also pass a criminal background check, attend the scheduled Rotations Orientation in its entirety, and complete all pre-rotations activities by the stated deadlines. Depending on the rotation sites where the student may be going, there may be additional requirements imposed by the site(s) including, but not limited to, a repeat background check, finger-printing, drug screening, or antibody titers documenting immunity to certain diseases.

## **TUITION AND FEES**

By action of the Board of Trustees, Western University/COMP's tuition and fees for the 2010-11 academic year (subject to change) are as follows:

### \$45,385 Tuition (Annual)

Applicants accepted at Western University/COMP must pay an initial, non-refundable "acceptance" deposit of \$1,000, and a second non-refundable "confirmation of acceptance" deposit of \$1,000. Due dates for these two deposits are provided in the offer of acceptance letter. Upon matriculation the entire \$2,000 deposit is applied toward the total tuition. For applicants who are granted deferred admission to the DO program an additional non-refundable deposit of \$500 is required to hold a seat in the next year's class. If an applicant fails to register, all tuition deposits are forfeited.

\$40 Student Body Fee (1<sup>st</sup> and 2<sup>nd</sup> year). This fee covers student government expenditures, social activities and public relations.

\$20 Student Body Fee (3<sup>rd</sup> and 4<sup>th</sup> year)

### **Other Expenses**

\$600	Medical Equipment
\$800	Required and Recommended Texts-Fall
\$300	Required and Recommended Texts-Spring
\$500	Summer Medical Sciences Preparatory Program Fee (optional)
\$45	Anatomy Supplies-Gloves, Scrub, Dissection Kit (OMS I students only)
\$60	Criminal Background Investigation (approx.)
\$40	Drug Screening (approx.)
\$100	Audience Response System Device
\$200	Graduation Fee (assessed on candidates for graduation only)
\$400	(per year) Optional Western University Parking Permit Fee
\$485	COMLEX Examination Level I and II CE*
\$1,095	COMLEX Examination Level II PE*
\$30	(per day) Late Registration Fee
\$40	Lost Locker Key
\$10	Lost ID Badge
\$6	(each) Copy of Official Transcript
\$21	(each) Rush Transcript, First Class Mail
\$25	(each) Rush Transcript, Federal Express
\$0.25	(per page) Copy of Student File Material
\$50	(each) Discipline specific shelf examination remediation (after second failed attempt)
\$150	(each) Discipline specific OSCE remediation (after first failed attempt)

Replacement costs for broken or damaged University property will be assessed according to fair market value of the materials broken or damaged and the labor to purchase, replace or repair the item.

\*Note regarding COMLEX Fees: Western University/COMP requires students to take and pass all sections of the National Board of Osteopathic Medical Examiners' COMLEX Level I and Level II as one of the requirements for graduation. These fees are subject to change by the NBOME and are updated regularly. See <http://www.nbome.org> for the most current COMLEX fees.

### **Clinical Rotations Expenses**

During the OMS III year, students are required to return to the Pomona, CA campus (Lebanon, OR for students enrolled in the Northwest Track) every 13<sup>th</sup> week to attend the mandatory Didactic Week activities (four weeks total for the OMS III year). Any travel, food, housing, or other expenses incurred by these activities are the responsibility of the student. Additionally, OMS III and IV students may choose to do elective rotations at non-core sites, including international sites, which may create self-imposed additional

expenses. Finally, some elective rotations done at or through other institutions (e.g., certain hospitals or other medical schools) may involve application fees and/or other charges. Since these rotations are elective, these fees are the student's responsibility.

## **Shelf Examination Remediation and OSCE Remediation Fees**

Students who fail one or more post-rotation discipline-specific shelf examination(s) will be allowed a second attempt. If the student fails the second attempt, he or she will receive an "I" grade for the rotation, meet with the Student Performance Committee (SPC) and will be required to take a leave of absence (LOA) from rotations until the examination is re-taken. Students authorized to make a third attempt will be assessed a fee of \$50 for each shelf examination taken. A student who fails the shelf examination on the third attempt will fail the rotation, must present before the SPC, and will be required to repeat a comparable rotation in its entirety.

Students who fail one or more post-rotation, discipline-specific Objective Structured Clinical Examination(s) (OSCE) will be required to remediate each failed OSCE. The student will be assessed a fee of \$150 for each OSCE that must be remediated. A student who fails one or more OSCE's on the second attempt will fail the rotation, will be required to present before the SPC, and will be required to repeat a comparable rotation in its entirety.

## **ACADEMIC REQUIREMENTS**

### **Academic Advisement**

Students will be assigned a faculty advisor upon matriculation. The academic advisor-student relationship can become one of the most valuable aspects of medical education. It provides an opportunity to develop sustained individual contacts between faculty and students on both academic and personal levels. If either the student or the advisor does not find the relationship helpful, either is free to seek a change by contacting COMP's Office of Student Affairs.

### **Pre-Clinical Curriculum Grading (OMS I & II)**

For students first entering classes prior to the 2010-2011 academic year, final pre-clinical course and system grades are reported as a numeric score and listed on the transcript as a percentage. GPA is calculated using the final actual percentage score a student achieved in a course or system, weighted in proportion to the units of the course or system. Class rank is determined by ordering the GPA's of the members of the class from highest to lowest.

For student first entering classes (including the summer ISAC course) in the 2010-2011 academic year and following, final pre-clinical course and system grades are reported on the transcript as Honors (HNR), Pass (P), or Fail (NP). These grades are assigned based on the final percentage score a student achieves in a course or system according to the following rubric:

<u>Percentage</u>	<u>Interpretation</u>
90% and above	Honors (HNR)
70-89%	Pass (P)
< 70%	Fail (NP)
Hon	Honors (for clerkship grades only)
Pass	Pass (for clerkship grades only)
RPass	Remediated Pass (for clerkship grades only)
Fail	Fail (for clerkship grades only)
I	Incomplete
M	Missing
W	Withdrawal
Cr	Credit
NCr	No Credit
Cert	Certification
AU	Audit

GPA is calculated using the final actual percentage score a student achieved in a course or system weighted in proportion to the units of the course or system. Class rank is determined by ordering the GPA's of the members of the class from highest to lowest.

### **Clinical Curriculum Grading (OMS III & IV):**

Grades for rotations and courses for students first entering the OMS III year prior to June, 2009, are reported on the transcript as Honors (HON), Pass (PASS), or Fail (FAIL). A failed rotation that is successfully remediated is designated as a "Remediated Pass" (RPASS) on the transcript. For purposes of GPA and class rank calculations:

Honors = 100%

Pass = 90%

Fail = 69%

RPass = 70%

Grades for rotations and courses for student first entering the OMS III year in June, 2010 and beyond are reported on the transcript as honors (HNR), High Pass (HP), Pass (P), Low Pass (LP), or Fail (NP). A failed course or rotation that is successfully remediated is designated as a “Remediated Pass” (RP) on the transcript. For purposes of GPA and class rank calculations:

Honors = 100%  
High Pass = 90%  
Pass = 80%  
Low Pass = 70%  
Fail = 60%  
Remediated Pass = 70%

### **Other Transcript Designations**

I	Incomplete
M	Missing
W	Withdrawal
CR	Credit
NCR	No Credit
AU	Audit

Following each course or system, official grades are submitted to the Registrar by COMP’s Office of Academic Affair/OME. The Registrar’s office will post these grades to Banweb, the online student records system. Students can view official grade reports and unofficial transcripts throughout the academic year via this system. Students can find instructions for viewing grades on Banweb on the Registrar’s website ([www.westernu.edu/registrar](http://www.westernu.edu/registrar)).

**Credit Calculations:** Courses are rated at one credit hour for each 12 hours of lecture or 24 hours of laboratory practicum, directed independent study, or small group sessions. Credit hours of 2.5 will be assigned for each week of clinical rotations.

**Cumulative Numeric Scores and Class Rank:** The cumulative numeric score will be calculated at the end of each semester of the OMS I and II with the average of all course numeric scores weighted by the number of course credit hours attempted. Since rotation grades are received on a rolling basis, cumulative calculations will occur at the end of the OMS III year so that a student’s quartile ranking can be reported on the Medical Student Performance Evaluation (MSPE). A final cumulative score will be calculated with all OMS IV grades are received.

If a course, system, or clinical rotation is repeated or remediated, only the last grade earned enters into the computation of the cumulative numeric score/grade point average, but the original numeric score remains on the student’s transcript.

After completion of the OMS II year, a student with a cumulative numeric score of <75% may have some or all third-year clinical rotations assigned by the COMP’s Associate Dean/Academic Affairs.

Cumulative class rank will not be calculated for transfer students. Osteopathic Undergraduate Teaching Fellows will not be ranked until the end of the final year.

### **Grade Changes Pre-Clinical (OMS I & II)**

No grade or numeric score will be changed unless the Course or System Director or Pre-clinical Curriculum Manager certifies in writing to the Associate Dean for Academic Affairs that either an error in computing or recording the score occurred or that a student has successfully remediated a course, system or rotation. This information will subsequently be transmitted to the Registrar.

For on-campus courses, students have a maximum of two weeks from the time examination results are released to them to bring any errors or irregularities in grading to the attention of the Office of Medical Education (OME). Remediated scores are recorded along with the original numeric score, but only the remediated score is calculated into the cumulative numeric score.

### **Grade Changes Clinical (OMS III & IV)**

In order to avoid problems and misunderstandings, students should make every effort to discuss the preceptor’s evaluation of their performance prior to the completion of the clinical rotation. Once a grade has been sent to COMP, the student may not discuss the grade with the preceptor or clinical site. Failure to follow this policy will result in student’s being assigned a final grade of “Fail” for the rotation, regardless of the original grade submitted by the preceptor or site.

If a student wishes to dispute a rotation grade, the student must email [COMProtations@westernu.edu](mailto:COMProtations@westernu.edu), explain the situation, and provide documentation substantiating the reason for requesting review. The evaluation will be reviewed by COMP’s Associate Dean/Academic Affairs, and the student will be informed of the final disposition of the rotation grade. The decision of the Associate Dean will be final.

Grade changes for rotations and courses will be considered only under the following conditions:

1. When a student successfully remediates a rotation or course.
2. When the preceptor or clinical site submits verbal or written information that a clerical error has been made regarding the rotation evaluation. In case of a verbal statement, the Associate Dean/Academic Affairs, Director of Clinical Education, or Clinical Education Manager must transcribe the statement and verify by his or her signature.
3. When the preceptor submits a verbal or written request to have the score changed for reasons other than a clerical error. This request must include justification of making the change.

All grade changes must have the approval of the Rotation/Course Director and Associate Dean/Academic Affairs

**Incomplete Grade (I) Courses or Systems:** An Incomplete (I) indicates that a student has not been able to finish all work required for issuance of a grade within the normally scheduled time of the course or system. The "I" is not counted in the grade point calculations and must be replaced before the student can register for the next academic term, unless other arrangements have been made with COMP's Associate Dean/Academic Affairs. When the incomplete work is complete, the "I" remains on the transcript and the final grade that the student has earned for the course is listed following the "I" (e.g., I/Pass). If the required work is not completed within the specified time, the "I" will be converted to the score the student achieved in the course/system prior to the "I" being assigned.

**Incomplete Rotations:** If a student is unable to finish a rotation due to an extraordinary personal or family situation, he or she must notify the Office of Medical Education/Rotations prior to leaving the rotation. In cases of life-threatening emergency, students are required to inform the Rotations Office as soon as possible after the emergency is handled. Once the issue is resolved, a determination will be made on a case-by-case basis as to whether the student will be allowed to resume the rotation, get partial credit for the rotation, or repeat the rotation in its entirety.

If a student cancels a rotation on his or her own, leaves a rotation before it is finished without prior authorization of COMP's Associate Dean/Academic Affairs, or is asked to leave the rotation by the preceptor or other authorized rotation site personnel, the student will be placed on academic suspension and the rotation will be listed as "Fail" with a numeric score of 0 (zero) assigned. COMP's Associate Dean/Academic Affairs will place the student on academic suspensions, and the student will be required to present before the Student Performance Committee (SPC). The SPC will forward a recommended course of action to the Dean of COMP. The recommendation may include, but is not limited to, dismissal from COMP, repeat of one or more rotations, or repeat of the entire academic year. The Dean will make the final decision, which can be appealed following the University's Appeal policy.

**Credit Courses (CR/NCR):** Courses graded Credit/No Credit are those designated by the faculty as courses required for promotion but not assigned a numeric score or other type of grade. Although the student must satisfy the requirements of the course to receive credit, the course is not calculated as part of the GPA or class rank.

### **Exemption from Individual Preclinical Curriculum Courses**

Students with advanced work or degrees in a particular subject may formally petition the Course Director, requesting credit for an individual pre-clinical curriculum course. Exemption for part of a course or system will not be accepted.

The petition must be submitted by the end of the first week of the specific course and include the reason for the request and all supporting documentation. If the Course Director determines that a student is eligible to challenge the course, he or she will consult with COMP's Associate Dean/Academic Affairs, at which time a decision will be made as to how the student will demonstrate proficiency in the subject. At a minimum, the student will be required to pass a comprehensive written exam. It is likely that other criteria will also be required depending upon the subject. If the student is successful in demonstrating competency in the subject, he or she will receipt course credit with a grade based on performance in the activities assigned.

The student must comply with the attendance policy until notified that the exemption has been granted.

### **Standards of Satisfactory Progress**

Students must maintain a cumulative numeric score of at least 70% on a yearly basis to be considered making satisfactory academic and professional progress. A final of "Fail" or a numeric score below 70% in any course, system, or rotation must be remediated prior to promotion to the next level of training or graduation.

### **Promotion**

Promotion is defined as academic and professional progression from one academic year to the next. A student will be promoted provided that all academic, legal and financial requirements of the University, as stated in the University Catalog, have been satisfied.

**Academic Requirements:** The Student Performance Committee (SPC) will recommend students for promotion to the Dean of COMP. The SPC will not recommend a student for progression from one academic year to the next if the student has an outstanding grade of "I," "NCR" in a required course, final numeric score of less than 70%, or a yearly cumulative numeric score of less than 70%.

**Professional Requirements:** An essential element of the academic program is professionalism. Professionalism will be emphasized throughout the curriculum and is a stand-alone element in determining academic advancement and achievement. When considering a student for promotion, professional, ethical, and personal conduct will also be taken into consideration (see Probation in University Academic Policies section).

All academic requirements must be met within a maximum of six calendar years from the date that the student first begins class at Western University/COMP in order to be recommended for graduation and receipt of a diploma.

### **Examination Policies**

For most examinations, a student will sit in an assigned seat, unless prior arrangements have been made with the OME. During an examination, a student may not leave the room until he or she has completed the examination, except in an emergency or as excused by the proctor. If a student is excused to leave the room temporarily, the proctor will accompany the student. The student's examination paper will be held until his or her return.

Once a student finishes the examination and leaves the examination room, he or she will not be permitted to re-enter the room until the exam is declared over.

All student belongings, such as notebooks, calculators, headwear, and headsets, will be kept in the front of the room. No food or drink (except bottled water) will be allowed during examinations.

No student questions related to the examination's content will be answered during the examination period. If a student notices a mistake or typographical error in the examination booklet, it can be pointed out to the proctor when the student turns in his or her examination booklet. If a student perceives that an examination question is incorrect or unclear, the student must answer the question to the best of his or her ability.

Generally, a student should expect to receive 60 minutes of examination time for every 50 questions on the examination. Often examinations will contain two to three questions per hour of instruction given, but this can vary considerably depending on the subject matter presented. Most examinations will not exceed 200 questions.

### **Violations of Examination Policies**

Cheating, or actions that give the appearance of cheating, will not be tolerated. It is the responsibility of the student to rigorously avoid any situation that could unfairly increase their personal examination score or change (increase or decrease) any other student's examination score.

Students are not to discuss examination questions with other student during any examination, whether it is administered all at once, in segments, or over extended time periods. Additionally, students are not allowed to discuss the examination with those who have not yet taken the examination.

If an examination proctor (including a faculty member, fellow, or teaching assistant administering a practical examination) observes a student behaving in a way that causes concern for cheating, immediately following the exam, the proctor will refer the situation to the SPC for further investigation. The observation and report of the proctor will carry considerable weight even in the absence of any other documentation of an examination irregularity (such as video recording).

If the SPC determines that an irregularity has occurred, the Committee's recommendation to the Dean of COMP may include, but is not limited to, the following sanctions:

1. Dismissal from the Western University/COMP.
2. Suspension from the program for a designated period of time.
3. Academic probation for a designated period of time.
4. Repeating the associated course or system in its entirety during the next academic year.

If there is insufficient evidence of cheating, the SPC will recommend to the Dean that no further action be taken.

If a student observes a suspected violation during an examination, he or she should report this to the proctor rather than personally attempt an intervention. The proctor will determine what action should be taken. The student must submit a written account of the incident witnessed to the Dean of COMP before the end of the day on which the incident occurred.

The Dean may make an executive decision on the matter, convene the SPC, or convene the Student Honor Committee (SHC) to investigate the allegation. The accused student may also request that either of these Committees be convened. If there is insufficient evidence of cheating, the SPC or SHC will recommend to the Dean that no further action be taken.

If it is concluded that a violation has occurred, the recommendation of the SPC or SHC to the Dean may include, but is not limited to:

1. Dismissal from the Western University/COMP.
2. Suspension from the program for a designated period of time.
3. Academic probation for a designated period of time.

During the period of time that an alleged violation is being investigated by the Dean, SPC, or SHC, the status of the student(s) involved in the case will remain unchanged pending the outcome.

The Dean will consider the recommendation of the SPC or SHC and communicate the results of the investigation to the student as soon as possible.

### **COMLEX (National Boards) Requirements**

The Commission on Osteopathic Colleges Accreditation Standards, Section 6.8.1 mandates that all students must take and pass NBOME COMLEX Level I and COMLEX Level II (CE & PE) prior to graduation ([www.osteopathic.org](http://www.osteopathic.org)). Western University/COMP's policy regarding COMLEX is as follows:

#### **COMLEX Level I:**

- Students must take COMLEX Level I prior to the start of the rotations cycle for the class. Any exception to this must have prior approval from the COMP's Associate Dean/Academic Affairs. Examples of exceptions include students who are required to remediate a course or system in order to complete requirements for the OMS II year or an LCME transfer student who may not have completed the core Osteopathic requirements at the time of transfer.
- The examination may be taken at any NBOME-approved testing center.
- The COMP Administration and/or the Student Performance Committee (SPC) will review the record of any student failing to meet the deadline above. This may result in the student being removed from rotations and placed on Academic Suspension until the COMLEX Level I examination is taken and passed.
- A student who fails the first attempt of COMLEX Level I is required to immediately contact his or her Academic Advisor, the Associate Dean/Academic Affairs, and the LEAD. office. The Student Performance Committee (SPC) will be notified

and the student may be required to present before the SPC. Depending upon the actual performance on the examination, the student's past academic performance, and the student's upcoming rotations, he or she may be required to take a leave of absence (LOA) from rotations to prepare to take the exam a second time. The decision to require a student to take an LOA from rotations to study will be at the discretion of COMP's Associate Dean/Academic Affairs, in consultation with the SPC.

- A student who fails COMLEX Level I for the second time will be removed from rotations and placed on Academic Suspension. The student will be required to meet with the SPC to present evidence as to why he or she should be granted permission to take the exam for the third time. If permission to take COMLEX Level I a third time is granted, the student will remain on Academic Suspension until a passing score is received.
- A student who fails COMLEX Level I three times is subject to dismissal from COMP.

#### ***COMLEX Level II CE:***

- A student may take COMLEX II CE if he or she has successfully passed all Didactic Week discipline-specific shelf examinations.
- Students who are "on track" with their rotations must take COMLEX Level II CE by September 1 of the OMS IV year. A student who is "off track" due to failed shelf exams or OSCEs, a leave of absence, or other issue must take COMLEX Level II CE within 60 days after the completion of the OMS III curriculum. Any exception to this must have prior approval from COMP's Associate Dean/Academic Affairs.
- The COMP Administration and/or the Student Performance Committee (SPC) will review the record of any student failing to meet this deadline. This may result in the student being removed from rotations and placed on Academic Suspension until the COMLEX Level II CE examination is taken and passed.
- The examination may be taken at any NBOME-approved testing center. Students are given a 24-hour excused absence from rotations to take COMLEX Level II CE if an advance request is made to the Rotations Department.
- A student who fails his or her first attempt of COMLEX Level II CE is required to immediately contact his or her Academic Advisor, the Associate Dean/Academic Affairs, and the LEAD office. The Student Performance Committee (SPC) will be notified and the student may be required to present before the SPC. Depending upon the actual performance on the examination, the student's past academic performance, and the student's upcoming rotations, he or she may be required to take a leave of absence (LOA) from rotations to prepare to take the exam a second time. The decision to require a student to take an LOA from rotations to study will be at the discretion of the Associate Dean/Academic Affairs, in consultation with the SPC.
- A student who fails COMLEX Level II CE for the second time will be removed from rotations and placed on Academic Suspension. The student must inform his or her residency site (if applicable). The student will be required to meet with the SPC to present evidence as to why he or she should be granted permission to take the exam for the third time. If permission to take COMPLEX Level II CE a third time is granted, the student will remain on Academic Suspension until a passing score is received.
- A student who fails COMPLEX Level II CE three times is subject to dismissal from COMP.

#### ***COMLEX Level II PE:***

- A student may take COMPLEX II PE if he or she has successfully passed all Didactic Week OSCEs.
- Students who are "on track" with their rotations must take COMPLEX Level II PE by November 1 of the OMS IV year. Students "off track" due to failed shelf examinations or OSCEs, a leave of absence, or other issue must take COMPLEX Level II PE within 120 days of the completion of the OMS III curriculum. Any exception to this must have prior approval from the Associate Dean/Academic Affairs.
- The COMP Administration and/or the Student Performance Committee (SPC) will review the record of any student failing to meet this deadline. This may result in the student being removed from rotations and placed on Academic Suspension until the COMPLEX Level II PE examination is taken and passed.
- Currently the COMPLEX II PE is only offered at the NBOME testing site in Conshohocken, Pennsylvania. Students are given a 72-hour excused absence from rotations to take COMPLEX Level II CE if an advance request is made to the Rotations Department.
- A student who fails his or her first attempt of COMPLEX Level II PE is required to immediately contact his or her Academic Advisor, the Associate Dean/Academic Affairs, and the LEAD office. The Student Performance Committee (SPC) will be notified and the student may be required to present before the SPC. The student will be required to participate in an individualized remediation plan that will include practice sessions under the direction of the Standardized Patient Program and assigned rotations designed to increase the student's clinical skills.
- A student who fails COMPLEX Level II PE for the second time will be removed from rotations and placed on Academic Suspension. The student must inform his or her residency site (if applicable). The student will be required to meet with the SPC to present evidence as to why he or she should be granted permission to take the exam for the third time. If permission to take COMPLEX Level II PE a third time is granted, the student will be required to participate in an another individualized remediation plan that will include practice sessions under the direction of the Standardized Patient Program and assigned rotations designed to increase the student's clinical skills.

- A student who fails COMPLEX Level II PE three times is subject to dismissal from COMP.

#### **NBOME Testing Accommodations:**

If a student applies for ADA accommodations, he or she is required to inform the Associate Dean/Academic Affairs so that he or she can be excused from taking the exam by the deadline. The student is not required to provide the reason that accommodations are being requested. The student is required to provide updates on the status of the request as information becomes available.

#### **Transfer to Another College of Osteopathic Medicine**

If it becomes necessary that a student in good academic standing wishes to transfer to another osteopathic medical college, the student will need to request a letter of good standing from the Dean of COMP as part of the transfer process. This request must be provided in writing to the Dean. If a hardship has arisen that will be alleviated by transfer to another osteopathic medical college, this hardship should be clearly documented in the request for a letter of good standing.

#### **Veterans**

Veterans who fail to maintain satisfactory progress for more than one semester will not be certified to receive any Veteran's benefits until they have corrected the situation and are making satisfactory progress.

#### **Graduation**

A student will be recommended for the degree Doctor of Osteopathic Medicine provided he or she:

1. Has completed at least four years in an accredited osteopathic college or equivalent.
2. Has been enrolled in Western University of Health Sciences/COMP during his/her final two academic years.
3. Is not on academic suspension or probation and has completed all prescribed academic requirements with a cumulative numeric score of at least 70% and has no outstanding grade of I, U, Fail or a grade of "NCR" in any required course.
4. Has passed COMPLEX Level I and Level II CE and PE.
5. Has demonstrated appropriate ethical, professional, or personal conduct, as defined in the University Catalog, "General Academic Policies and Procedures" section.
6. Has complied with all the legal and financial requirements of the University as stated in the University Catalog, as well as any other stated requirements such as completion of mandatory surveys or information updates.
7. Is expected to complete all requirements for graduation by the subsequent December 31 and is expected to march with his/her class in the graduation ceremony.

In order to walk at Commencement, the student must have successfully passed COMPLEX Level II CE and PE prior to the date of the scheduled Commencement exercise. The Dean may grant an exception to this policy if the student is able to provide documentation of an extraordinary life circumstance as the cause for not meeting the deadline. Failure of the examination(s) due academic deficiency does not qualify for an exemption.

The diplomas of a student who has not met all academic requirements by the date of Commencement will be dated to reflect when all academic requirements have been met.

**Participation in the Commencement Exercise is a requirement for graduation.** Unless special permission has been granted by the President of the University, all students must participate in person in the commencement program at which the degree is conferred. If the President grants special permission to be excused from graduation, the graduate may be required to present himself or herself at a later date to the Dean of COMP to receive the diploma and take the required oath.

#### **Academic Probation or Suspension**

In addition to the reasons listed in the Western University Catalog (Overview Section: General Academic Policies and Procedures), a student may be placed on Academic Probation or Suspension for the following reasons:

##### **Academic Probation**

1. Inadequate academic progress as determined by the Student Performance Committee (SPC). This includes, but is not limited to, receiving a "Fail" or numeric score less than 70% in any course, system or rotation, or a grade of NCR in a required CR/NCR course.
2. A cumulative percentage score less than 70%
3. When directed to repeat a year for academic or professionalism reasons

Students on probation must meet with their faculty advisor at least once a month. On-campus students must meet in person and off-campus students must contact at least their faculty advisor by phone or email once a month. It is the student's responsibility to contact the faculty advisor to arrange these meetings.

A student on academic probation due to a failed course, system, or rotation will be reviewed by the SPC once the academic deficiency is successfully remediated. Based on the circumstances leading to the failure, the SPC may recommend that the student be continued on probation or removed from probation.

##### **Academic Suspension**

1. Failure to pass a second attempt of COMPLEX Level I
2. Failure to pass a second attempt of COMPLEX Level II CE or PE

- Failure to perform in a professional manner or demonstration of serious deficiencies in ethical or personal conduct. In this case, the student will meet with the SPC and a determination will be made if the student will be allowed to continue in COMP's academic program or if the student will be dismissed from COMP. If the student is allowed to resume his or her studies, the student will remain on academic probation until he or she has demonstrated that the deficiency has been resolved.

A student on Academic Suspension is not registered as an active matriculant. He or she is required to use the time to remediate the deficiency for which the Academic Suspension was levied.

Students on academic probation or suspension must resign from all leadership roles in extra-curricular or co-curricular activities associated with the University, College, and/or with professional associations.

### **Remediation**

The educational objectives that underlie remedial teaching and evaluation will be the same as the educational objectives that underlie regular courses in the curriculum.

A student receiving a "Fail" or a final numeric score below 70% in a course, system, or rotation and/or a cumulative numeric score below 70%, will be reviewed by the SPC and a recommendation will be made to the Dean of Osteopathic Medicine. The Committee will base its recommendation on the student's academic record and other considerations with input from the student, the student's faculty advisor, and the course, system, or rotation faculty members as appropriate. The SPC's recommendation to the Dean regarding may include, but is not limited to requiring that the student: remediate the course, system, or rotation; repeat the course, system, or rotation; repeat a semester, repeat the entire academic year; or be dismissed from COMP.

If the student is allowed to remediate, the Course, System, or Rotation Director will determine, with input from the SPC, the way(s) in which the student will demonstrate acceptable academic performance and complete the remediation. Remediation may include: passage or a comprehensive examination, completion of a special project or study in the deficient area(s) or other requirements as directed.

A student who successfully remediates a course or system will receive a grade of "Pass" or 70% (if percentage scores are being used). The score (grade) achieved by remediation will be re-recorded on the transcript along with the original score/grade (examples: 68/70 or Fail/Pass). A student who successfully remediates a rotation will receive a grade of "Remediated Pass."

The academic record of a student who does not pass the remediation of a course, system, or rotation will be reviewed by the SPC and the student may be recommended to repeat a semester, repeat the academic year in its entirety, or to be dismissed from COMP.

A student who is required to remediate a course must be notified at least 15 working days prior to the remediation date. This notification may be done verbally at an SPC meeting, with a follow-up written notice, or the student may receive written notice in person or via certified mail to the student's listed contact address. Official notification cannot be done over the phone or through email.

### **Remediation: Financial Aid Policy**

If the student, at the end of the academic year, is still considered to be making unsatisfactory progress and must remediate, he or she is removed from the list of eligible Title IV and Title VII financial aid recipients.

Remediation of courses during the summer is not covered by any financial aid and cannot be considered an expense item for the following year. The student must attend at his or her own expense.

### **Dismissal**

The University may require withdrawal/dismissal at any time it deems necessary to safeguard its standards of scholarship, conduct, and orderly operation. Examples of reasons the Student Performance Committee will recommend dismissal of a student include, but are not limited to the following:

- Receiving a cumulative numeric score of less than 70% at the end of the first or second year.
- Receiving a final percentage scores below 70% in two or more courses or systems totaling more than 25% of the total credit hours for the first or second year\*.
- Receiving numeric scores of below 70% in two or more clinical rotations in one academic year.
- Receiving a "Fail" or final percentage score of below 70% in a remediated course, system, or clinical rotation.
- Failing to pass the COMLEX Level I or COMLEX Level II CE or PE on the third attempt.

*\*The Committee may recommend dismissal for a an OMS I or II student receiving a final percentage score below 70% in three or more courses or systems, even if the total unsatisfactory credit hours do not exceed 25% of the total credit hours for the first or second years.*

### **Student Honor Code**

As future healthcare providers, students of Western University/COMP will conduct themselves with honesty, integrity, professionalism, and pride. Students may not deceive, steal, or tolerate anyone who does.

The above code serves as the foundation for the Student Honor Committee (SHC) which will hear cases and serve as peer reviewers for infractions committed against the policies outlined in the Western University Catalog. The SHC is comprised of five students. The Vice-President of the OMS II class will hold a position on the SHC.

### **Reporting**

Reports of misconduct by another student shall be submitted to the Student Honor Committee via Blackboard with ID number as verification. The reporting student will submit an electronic signature agreeing to policies and procedures before filing a report. After the signature is submitted, the reporting student will be allowed to access the webpage to file the report.

All reports made to the Student Honor Committee will remain completely confidential.

Reporting a breach to the Student Honor Committee must be made in a timely fashion. Submission of concerns/reports to the Committee must be made electronically within 24 hours of the incident, or the next business day. Reports are to include date of the incident, time of the incident, individuals involved, and a complete description of the incident.

The reporting student will have the option of requesting a meeting with the Committee members about the incident.

All submissions will receive a confirmation email once the Student Honor Committee has received the report. The email will state that, due to confidentiality issues, no other information or feedback regarding the case will be sent to the reporting student. The reporting student may ask to speak privately with the Committee members.

The accused student(s) will have the right to meet with either the Student Honor Committee or the Student Performance Committee (SPC) if the Dean of COMP has directed the SPC to review the Student Honor Committee recommendation.

Results of the deliberation and recommended remediation from the Student Honor Committee are forwarded to the Dean of COMP. The Dean may then choose to refer the issue to the SPC or decide on the remediation directly. The SPC may recommend to the Dean any of the following courses of action: promotion, probation, remediation, dismissal from COMP, academic or conduct suspension, educational assessment, or other appropriate recommendation.

The Dean's decision may be appealed to the Provost following the University's appeal process (See **Overview** Section of the Catalog under Student Appeal Process).

### **Student Performance Committee**

The Student Performance Committee (SPC) is comprised of five faculty members, a recording secretary, and the following *ex officio* members: COMP's Assistant Dean/Student Affairs, Associate Dean/Academic Affairs, Assistant Dean/Pre-Clinical Education, Director of Clinical Education, and the Director of the LEAD Office.

The Student Performance Committee shall review the performance and comprehensive evidences of progress of all students pursuing the DO degree. Particular attention will be given to students in academic difficulty. For purposes of clarification, "performance" is defined as those activities of a behavioral-conduct or academic nature that negatively affects or impairs the continued ability of a Western University/COMP student to successfully matriculate within the osteopathic medical school. The Dean and the Office of Academic Affairs/COMP may provide additional input to assist this process.

After reviewing a student's performance records, the SPC may recommend to the Dean of COMP any of the following courses of action: promotion, probation, remediation, dismissal from the College, academic or conduct suspension, educational assessment, and other recommendations as indicated. The SPC may also recommend that no action be taken.

The SPC also has the responsibility of recommending to the Faculty as a whole the awarding of the degree of Doctor of Osteopathic Medicine for all students who satisfactorily complete all requirements for graduation as stated in the University Catalog.

All recommendations of the SPC shall be in writing to the Dean. COMP's Assistant Dean/Student Affairs will inform the student of the Dean's decision.

### **Attendance and Absences**

Attendance is required at all scheduled instructional periods. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during the periods. Frequent absences will be viewed as violations of the Standards of Academic and Professional Conduct. Students are expected to participate fully in all scheduled classroom, laboratory, small group, practicum and clinical education activities.

Monitoring of student attendance for on-campus courses will be the responsibility of COMP's Assistant Dean/Student Affairs.

Students are required to be present for all scheduled examinations and cannot begin an examination more than 15 minutes after the scheduled time without permission from COMP's Assistant Dean/Student Affairs.

A student must have prior approval by COMP's Assistant Dean/Student Affairs to be allowed to take an examination at a time other than the regularly scheduled time.

A student, who cannot attend an exam due to unforeseen circumstances, including illness, must phone or e-mail COMP's Assistant Dean/Student Affairs ([compstudentaffairs@westernu.edu](mailto:compstudentaffairs@westernu.edu)) and COMP's Office of Medical Education ([ome@westernu.edu](mailto:ome@westernu.edu)) as soon as possible prior to or after the examination has been administered. A written explanation of the absence (including documentation on physician letterhead, in the case of illness) must be provided to the COMP Student Affairs on the next day the student is on campus.

If a student misses an examination, COMP's Assistant Dean/Student Affairs, in consultation with the Office Medical Education and the Course or System Director will determine whether the absence is excused or unexcused.

If the absence is excused, the student will be permitted to take a make-up examination within 72 hours of the time that the examination was originally scheduled. The nature of the make-up examination is at the discretion of the Course or System Director. A student with an excused absence will receive full credit for their performance on the make-up examination.

If a student with an excused absence is unable to make up the examination within 72 hours, the student will be given an incomplete (I) for the course and will be required to make up the missing work at the end of the academic year. If there is more than one examination in the course or system, the student may take the subsequent examination(s) even if he or she was not able to make up the

missed examination. If the student does not feel ready to take subsequent examinations due to the incident that caused the initial absence, the student should discuss his or her concerns with the Course or System Director and send a written request for exemption for the remainder of the course or system examinations to COMP's Assistant Dean/Student Affairs. If accepted, the student will be allowed to complete the remaining course or system requirements at the end of the academic year.

An unexcused absence from an examination is grounds for summary failure (a score of zero) for that examination.

If a student fails to take either a make-up or a remediation examination at the time designated by the Office of Medical Education without a valid excuse as delineated above, the student will receive a summary failure (a score of zero) for that examination and will be referred to the Student Performance Committee and may be subject to dismissal from COMP.

Policies for attendance and absences during the OMS III and IV years are published in the Western University/COMP Clinical Rotations Manual.

### **Leave of Absence (LOA)**

A student in good academic standing may request an extended (> 30 days) leave of absence (LOA) due to an extraordinary life circumstance or to pursue a supplementary course of study. The student must meet with the Assistant Dean/Student Affairs and submit the LOA request in writing. The request must provide an explanation and all supporting documentation related to the request. If the request is granted, the student is required to monitor his or her Western University email so that no information or deadlines are missed when the student returns to COMP. The student must also inform the Financial Aid office and receive counseling regarding any outstanding loans since students are not eligible for financial aid when on an extended LOA. Students on LOA are not covered by Western University's accident, liability, or malpractice insurance during the time of leave. A notation regarding the extended LOA will appear on the student's academic transcript.

Other conditions apply when a student takes an extended LOA from COMP. These are listed in the Overview section of the University Catalog, and a student must take these items into consideration when requesting an extended LOA.

OMS III and IV students may request a short LOA (<30 days) for personal, academic, or other reasons by submitting a request to the Assistant Dean/Student Affairs. Additionally, a student may be required to take a short LOA in order to have additional time to study for rotation examinations, COMLEX, or to attend residency interviews. A short LOA does not have financial aid implications and will not appear on the academic transcript.

### **Complaints regarding Accreditation Standards**

The Western University/COMP is committed to meeting and exceeding the standards for accreditation of colleges of osteopathic medicine as described by the American Osteopathic Association's Commission on Osteopathic College Accreditation ([www.osteopathic.org](http://www.osteopathic.org)). A student who believes that WesternU/COMP may not be in compliance with a standard of accreditation has the right to file a complaint through the following procedure:

1. A written, dated and signed complaint must be filed with the Office of Student Affairs, WesternU/COMP.
2. The Assistant Dean/Student Affairs will consult with the Dean and form an *ad hoc* committee of faculty and students to investigate the complaint.
3. The results of the investigation shall include findings of fact, a determination of compliance or non-compliance, and recommended corrective actions if non-compliance is determined. The results will be communicated in writing to the Dean of COMP, the Assistant Dean/Student Affairs, and to the student complainant.
4. If corrective action is indicated, the Dean will respond to the *ad hoc* committee with a plan for such action within 30 days of receipt of the committee's findings and recommendations.
5. Records of all proceedings regarding complaints will be maintained by COMP's Office of Academic Affairs.
6. In the event that the student is not satisfied with the *ad hoc* committee's determination and/or the resulting corrective action plan, the student may communicate his or her complaint to:

Chairperson, Commission on Osteopathic College Accreditation  
American Osteopathic Association  
142 East Ontario Street  
Chicago, Illinois 60611-2864

### **CURRICULUM**

The curriculum at COMP is a four-year, full-time academic and clinical program leading to granting the degree of Doctor of Osteopathic Medicine (DO). COMP's curriculum stresses the interdependence of the biological, clinical, behavioral, and social sciences with emphasis on educating physicians for primary care medicine, employing the distinctive osteopathic principles, the maintenance of health, and the treatment of disease.

Western University/COMP's educational program centers on the basic concepts of osteopathic medicine, and identifies and assists the student to develop the knowledge, cognitive and psychomotor skills, and the personal and professional behaviors required of an osteopathic primary care physician in order to provide competent and comprehensive health care to all members of a family on a continuing basis. This academic program is intended to meet the following goals:

- To accord primacy to the role of the musculoskeletal system in the total body economy.
- To recognize and emphasize the inherent capacity within the total person to overcome disease and maintain health.
- To equip students to cooperate with this therapeutic capacity in their methods of treatment.

- To provide sufficient academic training to make students aware of health needs that must be referred to a specialist.
- A physician must be knowledgeable and skilled in problem solving. In order to achieve this goal, COMP's curriculum emphasizes the integration and application of basic and clinical sciences so that problem-solving becomes a fundamental part of the learning experience.

### **Summer Preparatory Program**

This is a non-credit, optional four-week introductory preparatory program for incoming DO students. Students will purchase a workbook and remit a tuition fee of \$5400. (See course description for OM 5001 below for additional information.)

### **Intensive Summer Anatomy Course (ISAC)**

This course is sponsored by the Anatomy Department for entering OMS I students. Preference is given to those who have had previous academic coursework and experience in anatomy. See OM 5002 for a course description.

### **PRE-CLINICAL CURRICULUM (OMS I and II)**

The first and second years of osteopathic medical school introduce the student fundamental scientific concepts as they apply to the study of medicine as well as the role of the physician in society. Exposure to clinical medicine with an emphasis on osteopathic principles and practice is woven throughout the curriculum.

#### **First Year, First Semester (32 credit hours)**

OM 5015 Introduction to the Study of Medicine (1 credit hour)  
 OM 5025 The Molecular and Cellular Basis of Medicine (10 credit hours)  
 OM 5030 Gross Anatomy (8.5 credit hours) or DO 5002 (8.5 credit hours)  
 OM 5035 Head and Neck Anatomy (3.5 credit hours)  
 OM 5045 The Physician and Society I (2 credit hours)  
 OM 5080 Essentials of Clinical Medicine I (3.5 credit hours)  
 OM 5090 Osteopathic Principles and Practice I (2.5 credit hours)  
 OM 5099 Service Learning I (1 credit hour)  
 IPE 5000 Patient-Centered Cases – An Interprofessional Approach I (1 credit hour)

#### **First Year, Second Semester (42 credit hours)**

OM 5125 Neuroscience System (11.5 credit hours)  
 OM 5130 Musculoskeletal System (5 credit hours)  
 OM 5145 Introduction to Disease, Immunity, and Therapeutics (7 credit hours)  
 OM 5155 Behavioral Medicine and Psychiatry (5.5 credit hours)  
 OM 5175 Blood and Lymphatics System (4 credit hours)  
 OM 5180 Essentials of Clinical Medicine II (3.5 credit hours)  
 OM 5190 Osteopathic Principles and Practice II (2.5 credit hours)  
 OM 5199 Service Learning II (2 credit hours)  
 IPE 5100 Patient Centered Cases – An Interprofessional Approach II (1 credit hour)

#### **Second Year, First Semester (37 credit hours)**

OM 6015 The Physician and Society II (3 credit hours)  
 OM 6020 Cardiovascular System (8.5 credit hours)  
 OM 6035 Renal System (4.5 credit hours)  
 OM 6040 Respiratory System (8.5 credit hours)  
 OM 6045 Endocrine System (5.5 credit hours)  
 OM 6080 Essentials of Clinical Medicine III (3.5 credit hours)  
 OM 6090 Osteopathic Principles and Practice III (2.5 credit hours)  
 IPE 6000 Patient Centered Cases– An Interprofessional Approach III (1 credit hour)

#### **Second Year, Second Semester (29.5 credit hours)**

OM 6115 Dermal System (3 credit hours)  
 OM 6130 Reproductive System (6 credit hours)  
 OM 6140 Gastrointestinal System and Nutrition (6.5 credit hours)  
 OM 6172 Emergency Medicine (1 credit hour)  
 OM 6173 Geriatrics (1.5 credit hours)  
 OM 6176 Pediatrics (2.5 credit hours)  
 OM 6180 Essentials of Clinical Medicine IV\* (3.5 credit hours)  
 OM 6190 Osteopathic Principles and Practice IV (4.5 credit hours)  
 IPE 6100 Patient Centered Cases– An Interprofessional Approach IV (1 credit hour)

## **CLINICAL CURRICULUM (OMS III and IV)**

COMP's clinical curriculum consists of the following clerkship rotations (each rotation is 4 weeks long, unless otherwise noted):

### **OMS III Rotations (113.5 credit hours)**

- OM 7010 Family Medicine (4 weeks, 10 credit hours)
- OM 7020 Internal Medicine (4 weeks, 10 credit hours)
- OM 7021 Internal Medicine (4 weeks, 10 credit hours)
- OM 7022 Internal Medicine (4 weeks, 10 credit hours)
- OM 7030 Surgery (General) (4 weeks, 10 credit hours)
- OM 7050 Elective (4 weeks, 10 credit hours)
- OM 7060 Osteopathic Manipulative Medicine (4 weeks, 10 credit hours)
- OM 7070 Pediatrics (6 weeks, 15 credit hours)
- OM 7080 Psychiatry (4 weeks, 10 credit hours)
- OM 7090 Obstetrics/Gynecology (6 weeks, 15 credit hours)
- OM 8055 Essentials of Clinical Medicine V

### **OMS IV Rotations (103.5 credit hours)**

- OM 7515 Medicine Sub-internship (4 weeks minimum, 10 – 15 credit hours based on the number of weeks)
- OM 7530 Surgery Sub-internship (4 weeks minimum, 10 – 15 credit hours based on the number of weeks)
- OM 7540 Emergency Medicine (4 weeks minimum, 10-15 credit hours based on the number of weeks)
- OM 7550 Electives (up to 70 units)
- OM 8555 Essentials of Clinical Medicine VI (3.5 credit hours)

## **COURSE DESCRIPTIONS**

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing course work are initiated by the appropriate faculty members, departments, or programs, and must be approved by the Curriculum Committee, the faculty, and the Dean of COMP.

### **OM 5001 Summer Medical Sciences Preparatory Program (0 credit hours, Cr/NCr)**

The Summer Preparatory Program prepares incoming students for the Gross Anatomy course and provides an introduction to Biochemistry. The anatomy component focuses on the skeletal, muscular, cardiovascular and nervous systems, and a brief overview of other body systems. Presentations also focus on enhancing student study and test-taking skills. The course is offered for students without prior course work in anatomy. Acceptance into this program is at the discretion of the instructor/coordinator. The course is elective and does not meet any requirements of the Doctor of Osteopathic Medicine curriculum. A separate tuition of \$500 is charged.

### **OM 5002 Intensive Summer Anatomy Course (ISAC) (8.5 credit hours)**

Prerequisite: Application to the course and permission of instructor. The Intensive Summer Anatomy Course (ISAC) is equivalent to the OM 5030, given during the summer to highly qualified incoming students. ISAC students who score 80% and above may be selected to serve as facilitators (peer leaders) in the regular gross anatomy course. Properly trained facilitators lead dissection and discussion groups at intervals during the course, and some are selected as teaching assistants for ISAC the following summer.

### **OM 5003 ISAC Facilitation (4 credit hours, CR/NCR)**

Prerequisites: Completion of OM 5002 with a final percentage score of 80% or higher and permission of course director. Students enrolled in this elective course will be assisting the other first year medical students in the dissection of cadavers and otherwise aid studies in the regular Medical Gross Anatomy course. Other types of teaching assistance, including prosecuting difficult-to-identify structures, may also be required.

### **OM 5015 Introduction to the Study of Medicine (1 credit hour)**

This course provides a systematic strategy for the entering student to study medicine. Learning styles and critical thinking skills are evaluated and training on accessing electronic medical resources is given. Students learn how to produce a portfolio that will record and exhibit their accomplishments throughout the four-year curriculum. Board examination study strategies are also reviewed.

### **OM 5025 The Molecular and Cellular Basis of Medicine (10 credit hours)**

This course presents an integration of molecular biology, biochemistry, cellular physiology and metabolism, introductory genetics and developmental histology within the context of their clinical applications of basic biomedical sciences.

**OM 5030 Gross Anatomy (8.5 credit hours)**

This course presents an understanding of the structure and arrangement of the gross anatomical features of the human body. Through lectures and laboratory dissection of cadavers, students are introduced to the language of anatomy and to clinically important relationships. Models, radiographs and special demonstrations are employed to emphasize areas useful to the physician.

**OM 5035 Head and Neck Anatomy (3.5 credit hours)**

This course is a continuation of the gross anatomy course (OM 5030). Through lecture and laboratory, students are introduced to the anatomy of the head and neck. Particular attention is paid to the cranial nerves, both their normal function and the numerous clinical syndromes that affect them. The anatomy lectures will also be supplemented with various clinical presentations.

**OM 5045 The Physician and Society I (2 credit hours)**

This course provides an exploration of the role of the physician in the larger society. This course explores philosophical and ethical issues of medicine through its literature and history. The impact of medicine on society and of society on medicine is explored.

**OM 5080 Essentials of Clinical Medicine I (3.5 credit hours)**

Essentials of Clinical Medicine I introduces students to the world of clinical medicine through a multifaceted approach, including early patient contact with both model and simulated patients, facilitated small group sessions, didactic sessions, self-directed and online exercises, and group projects. Emphasis is on development of history-taking and physical examination skills, critical thinking skills, differential diagnosis formation, construction of treatment plans, and doctor-patient communication skills. Other components of the course include professionalism, medical informatics, service learning, and the role of the physician in society and health promotion and disease prevention.

**OM 5090 Osteopathic Principles and Practice (2.5 credit hours)**

This course presents osteopathic history, philosophy, principles, problem-solving and patient management, incorporating direct and indirect, traditional, and contemporary manipulative techniques.

**OM 5099 Service Learning (1 credit hour)**

Through interaction and service in the community, this course develops the role and responsibility of the physician in society. Topics, including health education, public health, epidemiology and biostatistics, are learned through practical application.

**IPE 5000 Patient Centered Cases– An Interprofessional Approach I (1 credit hour)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

**OM 5125 Neuroscience System (11.5 credit hours)**

This course presents basic understandings of the brain, spinal cord and peripheral nervous system. Basic science topics include embryology, histology, neuroanatomy, biochemistry, physiology and pharmacology. Clinical topics include infections of the nervous system, pathology, neurology, ophthalmology, otorhinolaryngology, and overviews of sleep disorders, cerebrovascular disorders, aging and dementia.

**OM 5130 Musculoskeletal System (5 credit hours)**

This course presents common conditions and disorders of the musculoskeletal system. The course also presents embryology, histology, and functional anatomy—including kinesiology, biochemistry, pharmacology, physiology, and microbiology. The pathology and clinical aspects of this system are discussed, as are the related aspects of sports medicine, rehabilitative medicine, exercise, rheumatoid diseases and orthopedics. Focus is on the relevance of these topics to the primary care practice of osteopathic medicine.

**OM 5145 Introduction to Disease, Immunity and Therapeutics (7 credit hours)**

This is an integrated course introducing microbiology, immunology, pathology, and pharmacology to prepare students for more in-depth study during the systems. Genetics, as related to these disciplines, is also included. Clinical applications of the basic sciences are emphasized.

**OM 5155 Behavioral Medicine and Psychiatry (5.5 credit hours)**

Presented in conjunction with neuroscience, this course presents biological, psychological and social aspects of behavior in relation to medical practice. Major topics include the etiology and treatment of substance abuse, the physician-patient relationship, emotion and personality, etiology of gender identity and sexual orientation, human sexuality, evolutionary origins of behavior, and the genetic and environmental aspects of behavioral disorders. The course addresses how a patient's behaviors contribute to their health and/or disease. The physician's role in the education for behavioral change is also discussed. The psychiatry portion of the course builds

upon the bio-psycho-social foundation presented during behavioral science. Major DSM-IV diagnoses will be explored. Implications for medical practice will be emphasized. The course develops the physician's ability to recognize and deal with, or to refer, specific psychiatric cases.

**OM 5175 Blood and Lymphatics System (4 credit hours, Numeric Score)**

This course presents the embryology, histology and biochemistry of the hematopoietic and lymphoreticular organs. During this system, the influences of microbiologic and pharmacologic agents are discussed. The pathological and clinical aspects of hematologic diseases and diseases of the lymphoreticular system are presented along with the pertinent laboratory tests.

**OM 5180 Essentials of Clinical Medicine II (3.5 credit hours)**

Prerequisite: OM 5080. This course is a continuation of OM 5080.

**OM 5190 Osteopathic Principles and Practice II (2.5 credit hours)**

Continuation of OM 5090.

**OM 5199 Service Learning II (2 credit hours)**

Prerequisite: OM 5099. Continuation of OM 5099.

**IPE 5100 Patient Centered Cases – An Interprofessional Approach II (1 credit hour)**

Continuation of IPE 5000.

**IPE 6000 Patient Centered Cases – An Interprofessional Approach III (1 credit hour)**

Continuation of IPE 5100.

**OM 6015 The Physician and Society II (3 credit hours)**

Prerequisite: OM 5045. This course is a continuation of OM 5045 and explores ethical and professional issues in medicine. Medical jurisprudence is presented as well as an introduction to healthcare systems.

**OM 6020 Cardiovascular System (8.5 credit hours)**

This course presents the embryology, histology, and gross anatomy of the heart and blood vessels. The biochemistry, pharmacology, physiology, and microbiology as related to this system are also discussed. Cardiovascular pathologies are presented, along with the clinical diagnostic and treatment modalities.

**OM 6035 Renal System (4.5 credit hours)**

This course presents basic science topics in embryology and histology of the kidneys and urinary system, the biochemistry, physiology, and pharmacology of fluid and electrolyte balance with emphasis on kidney function, microbiology, pharmacology. Clinical topics include management of urinary infections, and the identification, diagnosis, and treatment of renal and urinary disorders.

**OM 6040 Respiratory System (8.5 credit hours)**

This course presents the embryology, histology, and gross anatomy of the lungs and nasotracheobronchial tree. Respiratory physiology and defense mechanisms, as well as microbiology, biochemistry, and pharmacology relating to the system are discussed. Pathology of the upper and lower respiratory system is presented along with clinical presentations of diagnostic and treatment modalities.

**OM 6045 Endocrine System (5.5 credit hours)**

This course explores the anatomy of the hormone secreting glands, the biochemical description of a hormone, how hormones are studied and measured, and the physiology of homeostasis. Pathologies of the endocrine system and the pharmacology of endocrine drugs are presented. Clinical manifestations of endocrine disorders of various ages are presented, with emphasis on identification, diagnosis, and treatment. The course also considers the evaluation and management of endocrine emergencies.

**OM 6080 Essentials of Clinical Medicine III (3.5 credit hours)**

Prerequisite: OM 5180. This course builds upon the knowledge and skills that the study has learned in the first two courses in the series and provides advanced training in history-taking and physical examination skills, doctor-patient communication, differential diagnosis and treatment planning in preparation for clinical rotations. Issues including professionalism, medical errors and patient safety, medical informatics and evidence-based medicine are reviewed. Students will have opportunities to add to their professional portfolios.

**OM 6090 Osteopathic Principles and Practice III (2.5 credit hours, Numeric Score)**

Continuation of OM 5190.

**IPE 6100 Patient Centered Cases– An Interprofessional Approach IV (1 credit hour)**

Continuation of IPE 6000.

**OM 6115 Dermal System (3 credit hours)**

This course presents problems of the skin from a clinical perspective. Lectures are coordinated with embryology, histology, physiology, biochemistry, pharmacology, microbiology, pathology, and dermatopathology.

**OM 6130 Reproductive System (6 credit hours)**

This course presents the anatomy, embryology, and histology of both the female and male reproductive systems. The physiology, biochemistry, pathology, pharmacology, and microbiology of both reproductive systems are also discussed. In addition, the basic science disciplines present principles regarding the relationships between mother and fetus during pregnancy. Clinical lectures on obstetrics, gynecology, perinatology, and nutrition, and the problem of child abuse and the management of pregnancy, are presented. Perspectives on human sexuality are also presented.

**OM 6140 Gastrointestinal System and Nutrition (6.5 credit hours)**

This course presents various aspects of the gastrointestinal system, including its embryology and histology. The biochemistry, physiology, the influence of pharmacology, and the problems with microbiology are presented along with the clinical and pathological aspects of the system. The nutrition course is incorporated into this system.

**OM 6172 Emergency Medicine (1 credit hour)**

This course serves to integrate the didactic clinical training that students received during the OMS I and II years, using case-based presentation pedagogy to foster clinical problem solving. Topics covered include many frequently encountered emergency presentations including chest pain, difficulty breathing, endocrine and neurologic emergencies, cardiovascular complaints, infections, trauma, obstetric and gynecologic emergencies, abdominal pain, etc. Students also receive an introduction of EMS, triage, and mass casualty management.

**OM 6173 Geriatrics (1.5 credit hours)**

This course is devoted to the special problems that can occur in the elderly. Diseases and conditions learned during the systems are now explored in light of this population. Challenges of an aging population are explored.

**OM 6176 Pediatrics (2.5 credit hours)**

This course is devoted to the special problems that can occur in the period between infancy to adolescence. Diseases and conditions learned during the systems are now explored in light of this population. Additionally, aspects specific to pediatrics are explored.

**OM 6180 Essentials of Clinical Medicine IV (3.5 credit hours)**

Prerequisite: OM 6080. This course is a continuation of OM 6080. As part of this course, students will take the Clinical Performance Evaluation (CPE) in preparation for the Clinical Performance section of the COMLEX examination. Students are required to pass the CPE in order to be promoted to the Clinical Training (Rotations) phase of the curriculum.

**OM 6190 Osteopathic Principles and Practice IV (4.5 credit hours)**

Continuation of OM 6090. This course includes a section that expands the osteopathic concept through an intensive segment on cranial anatomy and manipulation.

**OM 7010 Family Medicine (10 credit hours)**

This course provides supervised clinical education in family medicine, including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management.

**OM 7020 Internal Medicine I (10 credit hours)**

This course provides supervised clinical education in general internal medicine including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management.

**OM 7021 Internal Medicine II (10 credit hours)**

Prerequisite: OM 7020. Continuation of OM 7020.

**OM 7022 Internal Medicine III (10 credit hours)**

This course provides supervised clinical education in general internal medicine and/or in an internal medicine subspecialty such as gastroenterology, pulmonology, or cardiology. Expected competencies include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management. Prerequisite: OM 7020.

**OM 7030 Surgery I (General) (10 credit hours)**

This course provides supervised clinical education in general surgery including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management.

**OM 7050 Elective (10 credit hours)**

This course provides supervised clinical education in one of the clinical disciplines including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. The discipline and clinical training site must be approved in advance by the Office of Rotations.

**OM 7060 Osteopathic Manipulative Medicine (10 credit hours)**

This course provides supervised clinical education in osteopathic manipulative medicine including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**OM 7070 Pediatrics (15 credit hours)**

This course provides supervised clinical education in pediatrics including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**OM 7080 Psychiatry (10 credit hours)**

This course provides supervised clinical education in psychiatry including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**OM 7090 Obstetrics/Gynecology (15 credit hours)**

This course provides supervised clinical education in obstetrics/gynecology including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**OM 7515 Medicine Sub-Internship (10-15 credit hours)**

This course requires students to function, under supervision, at the level of an intern. Expected competencies include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. Minimum length: 4 weeks.

**OM 7530 Surgery II (10-15 credit hours)**

This course requires students to function, under supervision, at the level of an intern. Students may choose a sub-I experience in general surgery or one of the surgical subspecialties such as ophthalmology, orthopedics, urology, or cardiovascular/thoracic, or procedural subspecialties such as invasive radiology. Expected competencies include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. Prerequisite: OM 7030. Minimum length: 4 weeks.

**OM 7540 Emergency Medicine (10-15 credit hours)**

This course provides supervised clinical education in emergency medicine including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**OM 7550 Elective (5-15 credit hours; repeatable to a maximum of 70 credit hours)**

This course provides supervised clinical education in one of the clinical disciplines including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. The discipline and clinical training site must be approved in advance by the Office of Rotations.

**OM 8055 Essentials of Clinical Medicine V (ECM-V) (3.5 credit hours)**

The Essentials of Clinical Medicine V course is taken during the OMS III year and serves as a review of, and assessment tool for, basic clinical knowledge. This program reviews and amplifies clinical material presented during the OMS I and OMS II years. It also provides the opportunity for the student to obtain information and skills essential to rotations, residency, and medical practice. Topics include clinical, legal and ethical issues that are presented from a primary care perspective. Additionally, the course addresses special topics such as medical professionalism, cultural sensitivity, and alternative healthcare. Throughout the course, the tools essential to becoming a competent practicing physician and lifelong learner are emphasized. Guided learning is accomplished through on-campus and on-line projects that enable students to demonstrate competence in completing clinically-oriented problems and case scenarios. Participation in the on-line projects and attendance at on-campus session(s) is mandatory. ECM-V must be successfully completed in order for the student to be advanced to OMS IV status.

**OM 8555 Essentials of Clinical Medicine VI (ECM-VI) (3.5 credit hours)**

Essentials of Clinical Medicine-VI builds upon the essential knowledge and skills learned during the student's first three years of Osteopathic medical school, with the goal of helping the student to be able to successfully transition into his or her post-graduate training program and future medical practice. This is accomplished by enabling the student to apply general knowledge to specific clinical applications. In addition, ECM VI emphasizes medical professionalism and helps the student to sharpen skills vital to lifelong learning. Information is presented through one or more modalities including online and/or on-campus sessions.

## **HONORS AND AWARDS**

**The following awards for DO students are presented annually on Honors Day in April:**

The President's Society Award

Joseph and Dorothy Gendron Journalism Award (University Award)

Dean's Award

NWT Award

Russell B. McCaughan Award

Class of 1989 Award

Pomona Rotary Club Community Service Award

Osteopathic Physicians and Surgeons of California Award

Community Clinic Service Award

William G. Woodman, MD, Humanitarian Memorial Award

Jeff Plumb Memorial Award

Clem Parsons Memorial Scholarship Award

Louise Kramer Memorial Scholarship Award

Glen Scheresky Memorial Scholarship Award

American Association of Colleges of Osteopathic Medicine's Student Council Presidents, Student DO of the Year Award

National Dean's List Nominations

Who's Who Among Students in American Universities and Colleges Nominations

**The following awards are presented annually to graduates at Commencement:**

President's Award

Dean's Award

NWT Award

Dr. Warren A. Peterson Scholarship Award

Joseph G. Adatto, DO Memorial Scholarship

Reverend & Mrs. C. Allen Braswell Award

Edward B. Parris and Jacqueline A. Parris Award

Pauline Weiss Pumerantz Memorial Award

Dr. Alex M. Rene Memorial Award

Joseph Weiss Memorial Scholarship Award

Osteopathic Physicians and Surgeons of California Award

Dean of Student Affairs Award

East-West International Travel Scholarship Award

The Rafi Younoszai MSIV Elective Scholarship Award in International/Cross-Cultural Health

Janet M. Glasgow Memorial Achievement Citation of the American Medical Women's Association

Undergraduate Fellowship of Osteopathic Principles and Practice Recognition Award

Society of Academic Emergency Medicine Excellence in Emergency Medicine Award.

American Osteopathic Foundation: The Donna Jones Moritsugu Memorial Award

American College of Osteopathic Family Physicians Award

Alumni Memorial Award (University level)

**ACADEMIC CALENDAR**  
**2010-11 Academic Year**

Monday, Jul. 5 2010 Independence Day Observed	Monday, Dec. 20, 2010 Winter Recess Begins
Wed.-Fri., Aug 4-6, 2010 Orientation	Monday, Jan. 3, 2011 Spring Semester Begins (OMS I & II years)
Saturday, Aug. 7, 2010 Convocation/White Coat Ceremony	Monday, Jan. 17, 2011 Martin Luther King Day Holiday - no classes
Monday, Aug. 9, 2010 Classes Begin (OMS I & II years)	Monday, Feb. 21, 2011 President's Day - no classes
Monday, Sept. 6, 2010 Labor Day - no classes	Monday, Mar. 21, 2011 Spring Vacation Begins
Monday, Oct. 11, 2010 Columbus Day - no classes	Monday, Mar. 28, 2011 Classes Resume
Wednesday, Nov. 24, 2010 Thanksgiving Recess – 5:00 pm	Friday, May 20, 2011 Commencement
Monday, Nov. 29, 2010 Classes Resume (OMS I & II years)	
Friday, Dec. 17, 2010 Last Day of Fall Semester Classes (OMS I & II years)	

**THE OSTEOPATHIC OATH**

I do hereby affirm my loyalty to the profession I am about to enter. I will be mindful always of my great responsibility to preserve the health and life of my patients, to retain their confidence and respect both as a physician and a friend who will guard their secrets with scrupulous honor and fidelity, to perform fruitfully my professional duties, to employ only those recognized methods of treatment consistent with good judgment and with my skill and ability, keeping in mind always nature's laws and the body's inherent capacity for recovery. I will be ever vigilant in aiding the general welfare of the community, sustaining its laws and institutions, not engaging in those practices which will in any way bring shame or discredit upon myself or my profession. I will give no drugs for deadly purposes to any person, though it be asked of me. I will endeavor to work in accord with my colleagues in a spirit of progressive cooperation and never by word or by act cast imputations upon them or their rightful practices. I will look with respect and esteem upon all those who have taught me my art. To my college I will be loyal and strive always for its best interests and for the interests of the students who will come after me. I will be ever alert to further the application of basic biologic truths to the healing arts and to develop the principles of osteopathic medicine as taught by my profession. In the presence of this gathering I bind myself to my oath.

# **COLLEGE OF PHARMACY**

## **Doctor of Pharmacy Program**

### **ACCREDITATION**

The College of Pharmacy is accredited by the Accreditation Council for Pharmacy Education.

### **THE DEGREE**

The Doctor of Pharmacy (PharmD) degree is awarded in recognition of the highest level of professional education in pharmacy in the United States. To earn the PharmD degree, student pharmacists complete four years of professional study following a minimum of two years of preprofessional education at an accredited college or university.

Student pharmacists who complete this program are eligible to take state pharmacy licensing examinations provided they have satisfied other licensure requirements such as 1500 hours of internship experience. After passing this examination, graduates are licensed to perform all the duties and responsibilities of a practicing pharmacist.

### **ACADEMIC COURSE WORK**

To obtain the PharmD degree you will complete a curriculum that contains both didactic and clinical components.

#### **The Didactic Component**

In the core didactic component of the program, you will learn about biological systems and about drugs and their effect on the body. You will take courses in areas such as therapeutics, health care administration, pharmacology, immunology, pharmaceutics, pharmacogenomics and pharmacokinetics and learn how to apply this knowledge to pharmacy practice. Your studies will include communication skills, patient counseling, laws about drugs and pharmacy practice, health care systems, physical assessment and evaluation of the drug literature.

#### **The Clinical Training Component**

Pharmacy practice experiential training begins with the Introductory Pharmacy Practice Experiential (IPPE-I) course (PHRM 5999), which runs for the entire duration of the first year of study. The first year course consists of two 4-week (4 days/week) clerkships (160 experiential hours, 4 credit hours) that expose the student to community pharmacy practice in two different settings. Every student will complete both components by the end of their first year.

The second year IPPE course (PHRM 6999; IPPE-II) is scheduled during the summer between the second and third years. It consists of a 4-week (5 days/week, 40 hrs/week) clerkship (160 experiential hours, 4 credit hours) that exposes student pharmacists to institutional pharmacy practice.

In several different patient-centered training sessions, particularly during the third and fourth years, you will be given an opportunity to put into practice what you have learned in the classroom. Under the supervision of a clinical pharmacist faculty member, you will assess and counsel patients and monitor their drug therapies. You will spend a total of 36 weeks in these training sessions, called advanced pharmacy practice experiences (APPE). Such pharmacy practice experiences will take place in hospitals as well as in clinics, community pharmacies and other settings where pharmacists practice.

After the APPE is completed, student pharmacists undergo the 16-week Advanced Elective (AE). This is a 4-month rotation/research experience that allows student pharmacists to develop more skills and insight in a specific practice area. By November of the student's last year, individuals should identify an area of professional interest in which they wish to practice. The 16-week AE program is designed to provide a capstone experience in the student pharmacist's chosen area of interest (e.g., administration, various clinical settings, pediatrics, infectious disease, internal medicine, cardiology, renal, oncology, ICU, ambulatory care, community practice, compounding, pharmacoeconomics, managed care, psychiatry, teaching, pharmaceutical industry, pharmacy informatics, etc.).

The clinical training component comprises 76 credit hours, which is 43% of the total curricular requirements.

## **ADMISSIONS POLICIES AND PROCEDURES**

Admission to the College of Pharmacy is on a highly competitive basis. Each year we receive many more applications than we can accommodate in our program. At WesternU, we retain smaller class sizes, offering you a closer relationship with your faculty and fellow student pharmacists. The College of Pharmacy is looking for individuals who add to the diversity of our student body, have excellent communication skills, demonstrate compassion, are dependable, exhibit dedication and determination, and display good judgment.

### **Application Requirements**

The College of Pharmacy Admissions Committee will consider applicants with a minimum of two years of college (60 academic semester hours or 90 quarter hours) of pre-pharmacy study at an accredited college or university. The minimum cumulative prepharmacy and science grade point average requirement is 2.75. Grades of "C-" in any of the prerequisite courses are not accepted. Prerequisite courses are subject to review each year.

Candidates who have received a baccalaureate degree or higher will be considered more favorably than applicants who have fulfilled only minimum requirements. For the latest information, you should consult our web site at [www.westernu.edu](http://www.westernu.edu).

#### **1. Prerequisite Courses**

College English (1 semester)  
English Composition (1 semester)  
Speech Communication (1 semester)  
General Chemistry with lab (2 semesters)  
Organic Chemistry with lab (2 semesters)  
Human Anatomy with lab (1 semester)  
Human Physiology with lab (1 semester)  
Microbiology with lab-Medical Microbiology is preferred (1 semester)  
Biochemistry (2 semesters) **or** one semester each of Biochemistry and Molecular Biology; lab is optional  
Calculus (1 semester)  
Electives (2 semesters)-Electives must be met from two of the three following areas: public speaking/debate, social sciences, or economics. No two electives can be taken from the same department.

- Introductory level courses in the sciences are not accepted.
- If anatomy and physiology are combined, a minimum of five (5) semester units is acceptable. Anatomy and physiology must be taken from the anatomy, physiology, A&P, biology or zoology departments.
- We do not accept substitutions or waive any of the prerequisite courses.
- English as a Second Language (ESL) courses are not accepted for the English requirement. English courses must be taken from the English department.
- All prerequisite course work in progress must be completed no later than the spring semester or quarter immediately preceding matriculation.
- Summer session courses taken immediately prior to matriculation at WesternU are not accepted.
- Advanced Placement, Transfer of Credit, CLEP or Credit for Experiential learning are not recognized by the program.
- International students and any other applicants who are not U.S. citizens should be prepared to provide proof of legal U.S. residency at the time of interview. Proof of legal U.S. residency is required prior to any offer of acceptance.

#### **2. Standardized Exminations**

- Pharmacy College Admissions Test (PCAT) is not required.
- Test of English as a Foreign Language (TOEFL)

TOEFL is required for all applicants submitting course work from foreign schools. A minimum score of 213 for the Computer Based test or 79 for the Internet Based TOEFL (IBT) test must be submitted by

March 1 prior to matriculation. TOEFL scores are valid for two years. For more information regarding the TOEFL test, please visit their website at [www.toefl.org](http://www.toefl.org).

**Exception:** The TOEFL exam will be waived for permanent and temporary residents of the United States who have completed the English and Speech prerequisites of the College from an accredited institution in the United States.

English courses taken from foreign countries whose native language is English will be accepted (e.g., Canada, Australia, Great Britain, New Zealand and the British West Indies).

### 3. Recommendations

Three satisfactory recommendations (forms are provided by Western University) are required as part of the admissions application. The recommendations should state the nature and extent to which the recommender knows you and should elaborate on the applicant's attributes and abilities including communication skills, ethics, interpersonal skills, motivation toward the profession and maturity.

## **Application Procedures and Deadlines**

The Pharmacy College Application Services (PharmCAS) is the centralized application service for WesternU's College of Pharmacy. PharmCAS offers a web-based application service that allows applicants to use a single application and one set of materials to apply to multiple PharmD programs.

WesternU's application deadline to apply to PharmCAS is November 1. Application materials must be complete and submitted to PharmCAS by the deadline. It can take approximately 4-5 weeks for PharmCAS to process application materials and forward them to Western University. To apply to PharmCAS, or to request an application, visit their website at: <http://www.pharmcas.org>.

In addition to the PharmCAS application, WesternU requires applicants to submit a supplemental application with three recommendation evaluation forms (provided by WesternU) and an application fee of \$65.00. All application materials can be located on our website at [http://www.westernu.edu/xp/edu/admissions/pharmd\\_application.xml](http://www.westernu.edu/xp/edu/admissions/pharmd_application.xml). The supplemental application packet is due November 1. Applicants who do not submit all application materials by the deadline may not be eligible to continue in the admissions process. The minimum required GPA for consideration is 2.75 (overall) and 2.75 (sciences). A final evaluation will be completed upon receipt of your PharmCAS and supplemental application. WesternU is not responsible for delays in mail delivery. We strongly encourage you to apply early.

Applicants who wish to use course work completed outside of the United States must submit their transcripts for evaluation to World Education Services, Josef Silny and Associates, Educational Credential Evaluators, Inc., International Education Research Foundation, Inc., or the American Association of Collegiate Registrars and Admissions Officers Foreign Education Credential Service. A course-by-course evaluation is required and all course work must be designated as undergraduate, graduate, or professional. WesternU will only honor evaluations from one of the above services. The evaluation must be included with the application packet.

Faculty in the College of Pharmacy will screen each applicant's admissions file to determine whether or not an applicant will be granted an on-campus interview. Candidates selected for an on campus interview will be required to participate in an assessment of written and verbal communication skills. Interview sessions are conducted during the weekends (Saturdays) and, only under special circumstances, during the weekday. Decisions of the Admissions Committee regarding the admission of applicants to the Doctor of Pharmacy program are final.

## **TUITION AND FEES**

In estimating costs for one academic year of study at WesternU's College of Pharmacy, you should include tuition and fees, laptop computer and printer, books and supplies, room and board, and other miscellaneous expenses. Actions of the Board of Trustees setting tuition and fees for the academic year are established during the previous spring term. The most current tuition and fees are as follows:

- Tuition - \$41,530 in the 2020-2021 Academic Year.
- Student Body Fee \$40 per year
  - Other Mandatory fees specific to the College of Pharmacy will be provided separately.
- Application Fee - Non-refundable \$65 fee for those applying to the WesternU College of Pharmacy.

- Enrollment Deposit- \$500 for students admitted to the College of Pharmacy. Upon enrollment, this deposit is applied toward the tuition for the academic year. Persons who fail to enroll forfeit the entire deposit.

#### **Other Fees**

\$250	Remediation Examination Fee
\$200	Graduation Fee (assessed on candidates for graduation only)
\$400	(annual) Western University Parking Permit Fee (Optional)
\$30	(per day) Late Registration Fee
\$40	Lost Mail Locker Key
\$6	(each) Copy of Official Transcript
\$21	(each) Rush Transcript, First Class Mail
\$25	(each) Rush Transcript, Federal Express
\$10	Lost ID Badge
\$0.25 (per page) (replacement cost)	Copy of Student File Material Breakage Fee

The College of Pharmacy requires that each enrolled student pharmacist have a notebook or laptop computer during class, after class hours and while on rotations. The College of Pharmacy also requires that first, second and third year student pharmacists have a classroom responder, approved by the College, which is to be purchased from the University Bookstore. Individual responders must be registered to only one (1) student. Classroom responders are electronic devices that will be used to enhance interactive learning in classrooms. The device will enable faculty to gauge student understanding of concepts, introduce more innovative teaching and assessment methods, improve student involvement in learning, and facilitate classroom learning to become more dynamic. The responders will also be used to administer and score assessments. Therefore, student pharmacists are also required to bring responders to each class.

#### **FINANCIAL ASSISTANCE**

All PharmD students are eligible to apply for need-based financial aid. For information, please write to the Financial Aid Office, Western University of Health Sciences, 309 E. Second Street, Pomona, California 91766-1854

#### **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

Candidates for the Doctor of Pharmacy program must have the intellectual, emotional and physical abilities, with or without accommodations, to acquire the knowledge, technical and clinical skills needed to successfully complete the curriculum in order to pursue a career in pharmacy practice. Reasonable accommodations for persons with disabilities will be considered on an individual basis, but a candidate must be able to perform in an independent manner.

The College of Pharmacy has determined that those who are chronically impaired by alcohol or or have a history of substance abuse do not meet the personal competencies required for admission and matriculation.

The practice of pharmacy requires the performance of specific functions that fall into five broad skills categories: observation, communication, motor, interpretive/conceptual/quantitative, and behaviors and social.

**Observation Skills:** Candidates must be able to observe lectures, demonstrations and experiments in all types of settings. A candidate must be able to observe a patient's condition and elicit information using appropriate physical assessment techniques in order to evaluate, recommend, and initiate therapy. Pharmacy practice requires the ability to visually interpret prescription and medication orders and accurately distinguish one produce from another.

**Communication Skills:** Candidates must be able to communicate effectively in both academic and health care settings. This requires the ability to understand, write and speak fluent English. The candidate must also be able to recognize nonverbal communication cues.

**Motor Skills:** Candidates must possess both fine and gross motor skills necessary to fulfill all types of medication orders, to utilize diagnostic equipment for patient assessment, and to deliver or administer

patient therapies. Patient therapies include, but are not limited to, immunizations and cardiopulmonary resuscitation. Candidates must be able to use pharmacy equipment, technologies and computer-based information systems. Candidates must have sufficient physical stamina to complete the rigorous didactic, laboratory, and clinical experiences, which consist of long periods of sitting, standing or moving.

**Interpretative, Conceptual and Quantitative Skills:** Candidates must be able to utilize learning techniques that will allow mastery of the pharmacy curriculum when delivered through a variety of modalities including didactic instruction, group-based learning, independent learning, projects, reports, experiential training, and computer assisted learning. Candidates must demonstrate a fundamental and continuing ability to use analytical reasoning independently and in collaboration with others to assimilate knowledge, solve problems and explain health care situations. The candidate must be able to use information to develop appropriate drug therapy and monitoring plans in a reasonable amount of time.

**Behavioral and Social Skills:** Candidates must possess the emotional health required for full utilization of their intellectual abilities, the exercise of good judgment, and the prompt completion of all academic and patient care responsibilities. The candidate must demonstrate professional and ethical demeanor appropriate to his/her educational level and the ability to work in an interprofessional environment. Candidates must also be able to adapt to changes, function in the face of uncertainty, display flexibility and be able to ensure prompt and safe completion of all responsibilities. Compassion, integrity, interpersonal skills, motivation and concern for others are humanistic qualities that will be assessed during the admissions process.

The Doctor of Pharmacy program, along with all other programs at Western University of Health Sciences, shares a commitment to develop creative ways of opening the PharmD curriculum to competitive, qualified individuals with disabilities. In doing so, however, the PharmD degree program must maintain the integrity of its curriculum and preserve those elements deemed essential to educating candidates to become effective pharmacists.

## **ABILITY-BASED OUTCOMES**

The faculty of the College have defined a set of minimal, concise, program-level ability-based outcomes (ABOs) for the Doctor of Pharmacy Program at Western University of Health Sciences. Graduates from our Doctor of Pharmacy Program are expected to be able to provide pharmaceutical care at the level of an entry-level pharmacist. As such, these ABOs are developed for generalist, entry-level pharmacists who are able to deliver high quality pharmaceutical care.

The ABOs were developed with consideration of the mission of the College of Pharmacy: *“Our mission is to serve society by preparing student pharmacists for the present and future practice of pharmacy as competent, caring, ethical professionals. Education, training and research occur in an environment that celebrates diversity, encourages the free exchange of ideas and promotes active learning, scholarship, patient care, and public service. Our graduates will utilize their knowledge and abilities to promote safe and effective drug therapy and improve health care outcomes for the communities and populations they serve.”*

ABOs define the knowledge, skills and attitudes that student pharmacists must develop in order to practice competent pharmaceutical care. They provide the minimal set of abilities that a student should master during his/her education and training within our Program. These ABOs are consistent with current accreditation standards and other professional standards, guidelines and codes. They provide the basis upon which the Doctor of Pharmacy curriculum and student competency will be assessed.

The ABOs are categorized into 5 domains as follows:

**Domain I:** Establish a Professional Identity and Ethical Behavior

**Domain II:** Provide Patient-Specific and Population-Based Pharmaceutical Care

**Domain III:** Apply Scientific Foundations to Pharmacy Practice

**Domain IV:** Communicate and Educate Effectively

**Domain V:** Manage Information Systems and Pharmacy Practice

Each domain has been further developed to provide specific ABOs in each area.

Graduates of our Program should be able to perform the following specific ABOs upon earning a Doctor of Pharmacy degree from Western University of Health Sciences:

**Domain I: Establish Professional Identity and Ethical Behavior**

1. Act with honesty and integrity and at all times abide by the profession's code of ethics.
2. Practice in a humanistic manner, demonstrating compassion, understanding and empathy.
3. Demonstrate critical thinking, self-reflection, and problem-solving abilities.
4. Demonstrate professional, interpersonal and leadership skills.
5. Apply ethical principles when dealing with dilemmas that arise in the pharmacy practice setting.
6. Apply legal requirements in the practice of pharmacy.
7. Advocate on behalf of the patient's best interest.
8. Actively participate in the pharmacy community through involvement in professional organizations and societies.
9. Demonstrate a personal commitment to social responsibility and service.
10. Demonstrate commitment to professional competence through maintenance of a professional portfolio, continuous professional development and life-long learning.

**Domain II: Provide Patient-Specific and Population-Based Pharmaceutical Care**

11. Develop a professional, caring and covenantal relationship with the patient.
12. Gather, assess and interpret patient information from the patient, the patient's care-givers, and the medical record.
13. Identify, prevent and resolve actual and potential patient-specific drug therapy problems.
14. Design, implement, monitor, evaluate, and modify patient-specific, outcomes-based pharmaceutical care plans in cooperation with patients and other health care providers and in accordance with established, evidence-based standards of practice.
15. Provide consultation to patients on self-care, including the use of monitoring and diagnostic devices and non-prescription products.
16. Plan and perform ongoing patient evaluations, including patient assessment procedures and diagnostic tests in accordance with scope of practice, to identify and implement changes in the pharmaceutical care plan.
17. Administer medications, including biologicals, in keeping with the current scope of practice
18. Refer patients to other health care providers when appropriate.
19. Identify, manage and report any unexpected adverse drug reactions to the prescriber and comply with any adverse drug reaction reporting programs.
20. Ensure that pharmaceutical care is provided in the context of patient-specific cultural, economic and quality of life factors, while balancing individual, health care system and societal needs.
21. Identify health needs of populations and develop strategies to improve the access to medications and health services.
22. Work collaboratively with other health professions to promote health improvement, wellness, and disease prevention for, patients, communities, and at-risk populations.

**Domain III: Apply Scientific Foundations to Pharmacy Practice**

23. Utilize current and emerging knowledge in molecular, biomedical and pharmaceutical sciences to improve drug therapy outcomes.
24. Based on pharmacological and biological principles, predict positive and negative medication actions for the purpose of identifying drug therapy problems and developing monitoring plans.
25. Compound safe and effective prescriptions (sterile and non-sterile) in conformity with all applicable federal and state laws and regulations based on knowledge of chemical and biopharmaceutical principles.
26. Apply pharmacokinetic and pharmacogenomic principles in drug selection and drug dosing for patient-specific and population-based drug therapy.
27. Accurately perform pharmaceutical calculations appropriate to the practice setting.
28. Relate knowledge of drug discovery, development and approval processes to the introduction of new drugs into clinical practice.

**Domain IV: Communicate and Educate Effectively**

29. Demonstrate compassion and cultural competency when interacting with others.
30. Demonstrate effective patient interviewing and counseling techniques.

31. Select and demonstrate effective and appropriate written, verbal and nonverbal communication skills in diverse settings and situations when collaborating with patients, care-givers and other members of an inter-professional health care team.
32. Develop and communicate an education plan for patients, including safe and appropriate use of medications, devices and adherence aids in order to promote adherence to pharmaceutical care plans and to improve outcomes
33. Document significant observations of patient-pharmacist interactions in the patient care record, including: patient assessment, recommendations, education, care plans, and other planned or implemented actions.
34. Use communication and information technology effectively and appropriately.

#### **Domain V: Manage Information Systems and Pharmacy Practice**

35. Identify, retrieve, critically evaluate, interpret, synthesize, and manage professional, lay, and scientific literature from current, reliable sources of information, in a systematic, evidence-based manner.
36. Organize and provide drug information in a manner suitable for the recipient.
37. Develop a drug monograph suitable for presentation to a Pharmacy and Therapeutics Committee.
38. Design and conduct a medication use evaluation.
39. Select appropriate medication products based on pharmacoeconomic principles and policies, drug utilization data, and reimbursement issues within a health care system.
40. Collaborate with other health professionals in developing treatment guidelines and algorithms.
41. Develop, implement and assess disease prevention, health promotion and educational programs.
42. Establish a collaborative practice agreement with a physician.
43. Provide medication therapy management (or disease state management) services for patients with chronic health problems, such as: diabetes, hypertension, lipid disorders, asthma/COPD, heart failure, thrombosis, osteoporosis, smoking cessation, obesity, nutrition, pain.
44. Evaluate the medication safety provisions in any pharmacy practice setting to minimize medication discrepancies and errors, and establish a medication safety quality improvement program in accordance with the requirements of state and federal laws, regulations and accreditation standards.
45. Accurately and safely prepare, dispense and administer medications according to state and federal laws and regulations.
46. Recognize, prevent and address patterns of inappropriate drug use, including drug diversion.
47. Interpret policies of individual pharmacy benefit plans to resolve routine third-party prescription billing issues.
48. Demonstrate project management skills including project design, implementation and control.
49. Manage systems for acquisition, storage, preparation, and dispensing of medications and supervise technical personnel (technicians, assistants and clerks) who may be involved in such processes, according to accepted standards and regulations.
50. Apply management principles related to financial, inventory and resource management.

#### **ACADEMIC POLICIES AND PROCEDURES**

##### **Program Completion and Eligibility for Graduation**

All coursework in the College of Pharmacy must be completed within six (6) years of beginning the program. Exceptions may be made only upon recommendation of the Student Performance Committee in consultation with the Dean. The Student Performance Committee recommends to the College of Pharmacy faculty the awarding of the degree of Doctor of Pharmacy upon satisfactory completion of all requirements for graduation as stated in the college catalog. Students eligible for graduation must be approved by a vote of the College Faculty (see section on **Student Performance Committee**).

### Credit hours

To be eligible for graduation, a student must complete the following required components of the Doctor of Pharmacy program:

Year	# of Credits per year
1	42
2	46
3	40
4	52
Total	180

### Graduation

A student will be recommended for the Doctor of Pharmacy degree provided he/she:

- a. has successfully completed all required coursework and has attained a cumulative GPA of 2.75 or greater.
- b. is not on probation, academic suspension or conduct suspension and has completed all prescribed academic requirements with no outstanding grades of U, NCR, or I.
- c. has demonstrated no serious deficiencies in ethical, professional, or personal conduct that would make it inappropriate to award the Doctor of Pharmacy degree.
- d. has complied with all the legal and financial requirements of the University as stated in the University Catalog.

No student will receive his/her diploma until that student has successfully completed all requirements for graduation. All students must attend and participate in the Commencement program at which time the degree is conferred, unless the President of Western University of Health Sciences has granted special permission to waive this requirement. If the President grants special permission to be excused from attending the Commencement program, the graduate may be required to present himself or herself to a designated University official at a later date in order to take the required oath (if relevant) and receive his or her diploma.

### Course Grading Policy

Students are required to meet a specified set of outcome objectives in each course as described in each course syllabus/block plan. The course facilitator will provide students with the learning objectives, instructional methods, assessment strategies, schedules, and the grading criteria, in writing, prior to the beginning of each course. Achievement of course learning objectives will be based on performance on individual quizzes, examinations, and on any other graded assignments or criteria, including team or independent Pass/No Pass assessments established by the course facilitator.

Course grades will be assigned as follows:

A	=	4 quality points	90-100%
B	=	3 quality points	80-89%
C	=	2 quality points	70-79%
U	=	0 quality points	below 70%

Grading for the Introductory Pharmacy Practice Experiences (IPPE-1 and IPPE-2) are described in their individual course syllabi. Grading for the Advanced Pharmacy Practice Experiences (APPEs) is described in detail in *The Syllabus for Advanced Pharmacy Practice Experiences*.

Introductory Pharmacy Practice Experiences (IPPE-1 and IPPE-2), Advanced Pharmacy Practice Experiences (APPEs) /Advanced Electives (AE) grades will be assigned as follows:

CR	=	Credit
NCR	=	No Credit: the student has not achieved the established rotation outcomes.
I/CR	=	The student has successfully completed an APPE/AE following receipt of an incomplete grade. The I grade will remain on the student's transcript.
I/NCR	=	Indicates a student has unsuccessfully completed an APPE/AE following receipt of an incomplete grade.

Administrative Grades for all courses

I = Incomplete (Refer to the policy on **Incomplete Grades**).

M	=	Missing
W	=	Withdrawal. This grade will be assigned to a student's academic transcript upon voluntary withdrawal from the PharmD program. (Refer to the <b>General Academic Policies and Procedures</b> in the Catalog Section entitled <b>Overview</b> ).

### **Examination or Assignment Regrading**

The course facilitator is responsible for the final decision on all graded course activities. A student who has concerns about the accuracy of a graded assignment should refer to the regrade request statement that appears in the block plan. Course facilitators must finalize decisions on regrade requests before finalizing and submitting course grades to the University. Students must submit regrade requests within the time frame specified with the block plan. Regrade requests cannot be submitted after grades have already been finalized and submitted to the University.

### **Remediation for Courses in the Didactic Curriculum**

A student who received a U grade may be eligible to remediate. Remediation is not a substitute for full course participation. To be eligible for remediation, students must have taken all exams, completed all course assignments and participated in all graded activities, unless excused (refer to Course Participation and Attendance section). Students who have not completed all course assessed activities are not eligible for course remediation.

Remediation should include a joint (faculty and student) diagnostic evaluation of the student's weaknesses, a self-directed plan for strengthening the student's weaknesses with periodic reviews in consultation with the facilitator, followed by a comprehensive assessment, as recommended by the course facilitator, over the entire course material.

The Student Performance Committee, in consultation with the course facilitators, will set the remediation schedule. First and second year students will have their remediation exams scheduled during the month of June. Students in the second year must pass any remediation exams prior to their enrollment in PHRM 6999: IPPE-2. Third year students will remediate failed courses in February, prior to beginning the Advanced Pharmacy Practice Experiences (APPE). Students will be informed of the remediation dates in writing with at least 72 hours advance notice. Students who require remediation but are unable to make themselves available on the designated examination date will not be allowed to progress in the curriculum and will be placed on academic suspension. They will be required to repeat the course at the next regular offering.

Students who require remediation are encouraged to share their June/February plans with the appropriate course facilitators prior to the remediation dates being determined. Once the remediation dates are confirmed, there will be no changes made to accommodate student requests. There will be no make up remediation examinations.

Students must pass the remediation examination and all other required assignments in order successfully pass remediation. The \$250 remediation examination fee must be paid to the Bursar's Office prior to the remediation examination date.

After completing a remediation examination, the highest grade that a student will be able to achieve for the course will be a "C". The consequences of not passing remediation are outlined in the section on **Academic Progression**, below.

### **Course Participation and Attendance**

Students are expected to be in class Monday-Friday from 8 am to 3 pm, unless the block schedule notes otherwise.

Students are required to participate in all assessed activities (assignments, exams, etc.). When a student must be absent, he/she must contact the Course Facilitator prior to the missed class. If unable to reach the Facilitator, the student must leave a voice-mail message, an e-mail message, or a message with a staff support person or the Director of Student Services that includes a contact telephone number.

When a student misses an assessed course activity or when a student must be absent from class for up to 3 days, accommodation for excused absences may be made. At the discretion of the course facilitator, an absence may be excused for students participating in approved professional development activities, in situations involving illness, or in other emergencies. Documentation of the reason(s) for the absence must be provided to the course facilitator upon return to class. A copy of this documentation will be forwarded

to the Director of Student Services for inclusion into the student's file. The course facilitator/faculty will determine how the missed materials will be completed. If emergencies arise that require a student to miss more than one assessed course activity or more than 3 days of the class, the student may be required to retake the course.

The course facilitator is responsible for determining whether accommodations can be made. The course facilitator's decision is final.

Examples of situations when accommodating absences may not be possible include (but are not limited to) the following:

1. *Missed team assignments*: An individual student may not be able to individually demonstrate mastery of course material without completing the assignment within the context of a team.
2. *Missed assessments of clinical skills*: An individual student may not be able to individually demonstrate mastery of clinical skills without the specific circumstances arranged within the course.

This policy also applies to students on IPPE/APPE/AE. These students are also governed by policies contained in the individual IPPE course syllabi or the *Syllabus of Advanced Pharmacy Practice Experiences* and by rotation-specific requirements.

### **Independent Study**

Because of the unique and intensive nature of the College of Pharmacy's curriculum, the collaborative teaching and learning processes among team members, and the sequencing of key courses, the Faculty does not believe that independent learning of core coursework meets the goals of the Doctor of Pharmacy program. In special cases, e.g. involving illness, reasonable accommodation will be made to permit the student to continue in his/her course of study if possible. Additionally, the collaborative learning process among team members is a critical element of the curriculum. Students accepted into the program must understand that their grades require successful collaboration with team members. Independent study of courses in the core curriculum in the College of Pharmacy is not permitted either in summer or during the academic year.

### **Holidays**

WesternU publishes an annual list of holidays recognized by the University. A student who requests time off for a holiday other than those observed by WesternU must do so in writing to the Course Facilitator a minimum of 5 school days before the start of the course in which the holiday falls. If the request is approved, the student is responsible for any work missed on the date(s) absent. All assignments must be completed by the scheduled time. However, if the student fails to notify the Course Facilitator in the timeframe noted, the absence will be considered an unexcused absence, and no remediation will be permitted. The WesternU holiday schedule does not apply to students on Introductory Pharmacy practice Experience – II, Advanced Pharmacy Practice Experiences and on off-campus Advanced Electives.

Students will follow the rotation site holiday schedule on Introductor Pharmacy Practice Experience – II, Advanced Pharmacy Practice Experiences and on Advanced Electives.

### **Student Performance Committee**

The College of Pharmacy Student Performance Committee is charged with the following responsibilities: (a) to periodically review the academic achievement and comprehensive evidences of progress of all students who are pursuing the PharmD degree (particular attention will be given to students in academic difficulty as their grades are made available to the Committee by the Registrar and/or the Associate Dean for Academic and Student Affairs); and (b) to receive reports from the Academic Dean regarding any student whose professional or personal conduct is deemed unsatisfactory. Appropriate professional and personal conduct is defined by the University's and College's codes of professional conduct (refer to **Standards for Professional Conduct** below).

### **Academic Progression**

### **Academic Standards**

Students are required to maintain a cumulative 2.75 grade point average (GPA) during the didactic portion of the curriculum. The academic year is divided into two academic terms with the first (Fall) term consisting of classes offered between August and December and the second (Spring) term consisting of

courses offered between January and May. The student's cumulative GPA will be calculated at the end of each academic term. For the first and second years, an academic term is equal to a semester. For the third year, the academic "didactic term" includes courses PHRM6301-6306, while the "APPE" term includes courses R1-R2.

## Failure to Meet Academic Standards

### Academic Probation

The Associate Dean for Academic and Student affairs will automatically place students on academic probation under the following circumstances (see University Catalog section on **General Academic Policies and Procedures** in the **Overview** section):

1. A student earns a failing ("U") grade in any didactic course.
2. A student's cumulative GPA is below 2.75 at the end of any academic term.
3. A student's cumulative GPA is below 2.75 at the end of the third year didactic term.
4. The first time a student receives a failing ("NCR") grade for any IPPE or APPE rotation (see section below regarding **Failure to Meet Standards – First APPE Rotation Actions**).
5. A student receives a failing ("NCR") grade during the Advance Elective rotation (see section below regarding **Failure to Meet Standards – Advanced Elective Rotation Action**).

The Associate Dean will notify the student in writing of the action. When a student has been placed on probation, the following apply:

1. The student may not hold office in any University or College organization.
2. Within 2 weeks of the date that the student receives notification of his/her academic probation, the student must meet with:
  - a. The Learning Enhancement and Academic Development (LEAD) office staff to develop an academic action plan. The student must obtain a signature from the LEAD office documenting agreement on the action plan.
  - b. The student's faculty advisor to review the student's proposed improvement plan. The student must obtain a signature from the faculty advisor documenting agreement on the action plan.
  - c. The Associate Dean of Academic and Students Affairs to provide the required signed documentation that the prior two meetings occurred.
  - d. If it is determined that non-academic issues (e.g., illness, family emergency, death or acute or chronic illness of an immediate family member, divorce or other personal family concerns) are impacting academic performance, the student will be referred to the Director of Student Services for further assistance.
3. In addition, students are encouraged to seek regular assistance from any University or College resource deemed necessary to improve his or her academic performance over the duration of probation.

Students on academic probation will be given one academic term to raise their cumulative GPA to the required standard of 2.75 or above.

### Academic Suspension<sup>1</sup>

The Associate Dean for Academic and Student Affairs will automatically place students on academic suspension when:

1. A student does not achieve the required 2.75 cumulative GPA for two consecutive academic terms.

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<sup>1</sup> Academic suspension is defined as an interruption in academic progression in which the student will not be attending classes or visiting campus until a specified return date. This status can be applied to a student regardless of whether the student is on academic probation. Students placed on academic suspension will typically be invited to repeat the academic year (or portion thereof) from which the suspension resulted. When returning to repeat coursework, the student will remain on academic probation until deemed by the SPC/Dean to have satisfactorily remedied the academic conditions that provoked the academic suspension. See section 11 of the **General Academic Policies and Procedures, Overview**.)

2. A student with a cumulative GPA of less than 2.75 at the end of the third didactic term receives an “NCR” grade for a rotation within the term immediately following the third year didactic term.

Students placed on academic suspension will be required to repeat all coursework for the same two consecutive terms for which the student’s cumulative GPA was below 2.75. Should a student have successfully completed the requirements for IPPE-1 and/or IPPE-2 (i.e., received a CR grade), and they are returning from a leave of absence or are required to repeat an academic year, they do not need to repeat the IPPE they have successfully completed.

#### **Permanent Dismissal for Academic Reasons**

A student will be permanently dismissed from the program if the student fails to accomplish course learning objectives and/or fails to achieve academic expectations even after granted the opportunity to repeat coursework.

A student will be permanently dismissed when:

1. A student earns a failing grade (“U”) in any course that the student is repeating.
2. A student fails to earn a cumulative GPA of 2.75 by the end of the first term of repeated coursework after returning from an academic suspension.
3. A student currently repeating coursework due to sub-standard academic performance is found in violation of the College’s Standards for Professional Conduct at a level that merits course failure or repeating the course.
4. A student fails (receives an “NCR” grade) for any APPE rotation after the student has been required to re-start the APPE rotation sequence due to failure to meet performance standards for the APPE rotations (see section below regarding **Failure to Meet Standards – Second APPE Rotation Actions**).

Students are encouraged to seek continued assistance from any University or College resource deemed necessary to assist the student in improving their performance, e.g., The Learning Enhancement and Academic Development (LEAD) program.

#### **Pharmacy Intern License Requirement**

All students are required to be licensed interns with the California State Board of Pharmacy during all phases of the experiential program (IPPE, APPE and AE). First year students are required to file a copy of their intern license application with the Director of Student Services by the first Monday in October of their first year in the PharmD program. Students unable to obtain a valid pharmacy intern license by the deadline will not be permitted to begin any clinical practice experience. **Students found not eligible for an intern license by the State Board of Pharmacy will be dismissed from the PharmD program.** The California State Board of Pharmacy is a body independent of the College of Pharmacy. The College of Pharmacy assumes no liability for decisions made by the Board regarding the status of a student’s intern license.

#### **Academic Progression Didactic Curriculum**

The Student Performance Committee will review each student’s progress at the end of each academic term. Students must complete all courses in a subordinate year of the program before they can progress to the next year in the program. In addition, students must complete all didactic courses before they will be allowed to start the Advanced Pharmacy Practice Experience portion of the curriculum.

#### **Failure to Meet Standards - Incomplete grade (I)**

A course facilitator has the option of assigning an Incomplete Grade under the following circumstances:

1. A student has a verifiable “Excused Absence” for missing an assessed activity due to a verifiable “Excused Absence” (see Course Participation and Attendance).
2. Course facilitators are responsible for identifying the most appropriate methods(s) for assessing students’ mastery of specific skills and/or topics. For some assessed activities, course facilitators may specify within a course block plan that sub-standard performance on specific assessed activities can result in “Incomplete” grades. Typically, this will apply to skills for which students must demonstrate mastery before proceeding to more advanced topics or skills.

The Associate Dean for Academic and Student Affairs will notify students in writing who receive an Incomplete grade in a course that they have been issued an Incomplete grade. The following describes the process necessary for resolving an Incomplete grade.

1. The student is responsible for meeting with the course facilitator to receive direction regarding what is necessary to resolve the Incomplete grade.
2. In a meeting between the student and the course facilitator issuing the "I" grade, an Incomplete Contract Form must be completed.
  - a. The form is available from the College of Pharmacy Academic and Student Affairs Office or from the Registrar's intranet site.
  - b. The Contract Form stipulates the requirements of the student that are needed to remove the Incomplete grade.
    - i. The original form will be kept by the course facilitator.
    - ii. Copies of the form must be sent to the student, to the College of Pharmacy Director of Student Services (for placing in the student's file), and to the Registrar's Office.

The grade of "I" is not to be awarded in place of a failing grade or when the student is required to repeat the course. In such a case, a grade other than the "I" must be assigned. The incomplete (I) grade remains on the transcript. In the event that an I grade is carried into a new academic year, the Dean may conditionally promote the student to the next academic year in the program pending the satisfactory clearance of the incomplete grade.

If a student fails to comply with the conditions outlined in the notification, or fails to satisfactorily convert the incomplete grade to a passing grade, the incomplete grade will be converted to a U grade (if the I grade was issued in a didactic course) or to an NCR grade (if the I grade was issued in a rotations course). The student will be placed on academic suspension and will be required to repeat the course at the next regular offering.

In the event that the I grade is converted to a U grade, the student's GPA will be recalculated. If there are any consequences for academic progression, the consequences will be effective the same day the Incomplete grade is changed (see **Failure to Meet Academic Standards**).

#### **Eligibility to participate in Advanced Pharmacy Practice Experiences (APPEs)**

Students may not start an APPE until the Student Performance Committee has been notified that all courses have been completed. The Student Performance Committee will ensure that students are academically eligible to begin APPEs. Any student with a cumulative GPA below 2.75 for the two terms immediately preceding the scheduled start of the APPEs will be placed on academic suspension and be required to satisfactorily repeat/complete the prior two terms' courses (see section above regarding **Failure to Meet Academic Standards**).

#### **Progression to the Fourth Professional Year**

Students must have completed at least two rotations successfully in their P3 year to progress to the fourth year of the program. As a general rule, no "off rotations" will be given during the first two APPEs. Exceptions to this policy will be considered on a case-by-case basis.

#### **Failure to Meet Standards – First APPE Rotation Actions**

When a student receives a NCR or incomplete (I) grade, the Director of Experiential Education or his/her designee will notify the Student Performance Committee in a timely manner. The student will be allowed to continue with their scheduled rotations, but will be placed on Academic Probation by the Associate Dean for Academic and Student Affairs.

Students must repeat any rotation in which an NCR grade is issued. The rotation must be repeated with a WesternU-paid, full-time faculty member. If the NCR grade is earned in a rotation for which no WesternU-paid, full-time faculty member is available to serve as preceptor, the student will retake the rotation with a preceptor selected by the Director of Experiential Education. In the event that an I grade is converted into a NCR grade, the terms and conditions governing the receipt of a first NCR grade in an APPE rotation will be followed. Rotations that need to be repeated should, where possible, be made up during the student's designated "off rotation." Should a student need to make up a rotation after a designated "off rotation" has been completed, then the rotation must be made up after the scheduled Advanced Elective Rotation. No "split" rotations will be allowed. To monitor the quality of a student's performance on APPEs, all students must complete at least one APPE with a voting, full-time faculty

member of the College. If a student fails this required APPE assignment, he/she must complete another APPE successfully with another voting, full-time faculty member.

#### **Failure to Meet Standards – Second APPE Rotation Actions**

In the event that a student receives a NCR grade for a second APPE rotation, the student will remain on academic suspension and be required to repeat the entire APPE rotations sequence (6 rotations).

Students will be able to re-start the APPE rotation sequence only once. Thus, student repeating the APPE rotations sequence cannot fail any rotation. Receipt of an NCR grade for any rotation after re-starting the APPE sequence will result in permanent dismissal from the PharmD program.

#### **Failure to Meet Standards – Advanced Elective Rotation**

When a student receives a NCR or an Incomplete grade (I) in the 12-week Advanced Elective (AE) program, the Director of Experiential Education or his/her designee will notify the Student Performance Committee in a timely manner. If a student receives a grade of NCR for an Advanced Elective, he/she will be placed on academic probation by the Associate Dean for Academic and Student Affairs. The student must repeat the AE in which the NCR grade was issued with a WesternU paid, full-time faculty member at a time that is mutually agreed upon by the Director of Experiential Education and the preceptor. If this NCR grade is earned in an AE for which there is no WesternU full-time, paid faculty member to serve as preceptor, the student will complete the AE with a preceptor selected by the Director of Experiential Education at a time that is mutually agreed upon by the AE director and the designated preceptor. Students who receive a NCR grade for an AE will not be eligible to graduate until the AE is repeated successfully and a grade of CR is recorded.

#### **Veterans**

Veterans who fail to maintain satisfactory progress for more than two terms or rotations will not be certified to receive any Veterans' benefits until they have corrected the situation and are making satisfactory progress.

#### **Standards for Professional Conduct**

##### **Professional Dress and Behavior**

Students are expected to dress and act appropriately. Students are expected to follow all rules established by faculty and preceptors in the classroom, during clinical skills labs, at practice sites, and during College-sponsored events. When requested, students should use professional dress, such as wearing their white coats.

##### **Respect**

Students should show respect to their fellow classmates, staff, faculty, colleagues and their patients. As future professionals, each student must assume personal responsibility for honesty and integrity.

##### **Academic Honesty**

Academic honesty includes, but is not limited to, maintaining original assessment answers after the graded examination has been returned, maintaining honesty during assessments, bringing only authorized resources to exams or other assessed exercises, signing only your name on attendance records or team examinations/assignments, and giving proper credit when citing another person's work.

Violations of Academic Honesty include all forms of cheating and plagiarism.

**Cheating:** Cheating is the unauthorized use of information or study guides in any academic exercise. The methods of cheating are varied and well-known. Cheating includes, but is not limited to:

- Copying from others during an assessment
- Sharing answers for a take-home assessment
- Using illegal notes during an examination
- Taking an assessment for another student.
- Asking or allowing another student to take an assessment for you.
- Tampering with an assessment after it has been corrected, then returning it for more credit than deserved.

**Plagiarism:** Plagiarism is academic theft. It refers to the use of another's ideas or words without proper attribution or credit. An author's work is his/her property and should be respected by appropriate documentation. Credit must be given:

- For every direct quotation.
- When a work is paraphrased or summarized in whole or in part in your own words.
- For information that is not common knowledge. Information is common knowledge when it appears in several sources about the subject.

There is no distinction between those who violate rules of academic honesty and those who allow it to occur.

### **Reporting violations**

**Responsibility of the Student:** Because there is no distinction between those who violate rules of academic honesty and those who allow it to occur, students have a professional obligation to report violations of Professional Conduct. Violation of the Standards of Professional Conduct should first be reported to those closest to the source of the violation; this may include course faculty, course facilitators, faculty advisors or the Office of the Dean. When appropriate, students may report a witnessed violation to the Director of Student Services, who will maintain the student's anonymity.

**Responsibility of the Director of Student Services:** Upon receiving a report of professional misconduct from a student, the Director of Student Services will report this violation to the appropriate person involved, course facilitator or Office of the Dean, while maintaining student anonymity.

### **Academic Misconduct**

**Responsibility of the Faculty:** When faculty observe or are made aware of a violation, they have the authority to handle an incident directly. The following list is meant to be illustrative rather than exhaustive as all faculty reserve the right to impose sanctions based upon their good judgment of the given situation:

- Verbal reprimand and/or moving a student during an assessment
- No credit given for the question or assessment
- Assignment of additional work
- Re-examination
- Lowering the course grade.
- Assignment of a "U" grade for the course.

If the faculty member imposes any or all of these remedies, he or she will notify the student and submit an "Academic and Professional Misconduct Report Form" to the Office of the Dean. If a student receives a "U" grade as a result of academic misconduct, the student isnot eligible for course remediation and must repeat the course during the next academic year.

**Responsibility of the Dean:** The Dean has the sole authority to adjudicate and impose any sanctions on all professional conduct issues. Once the Dean receives an "Academic Dishonesty Report Form" he/she determines if the issue should be dealt with unilaterally by the Dean or referred to the Student Performance Committee. If the issue is referred to the Student Performance Committee, the Dean will adjudicate and impose any sanctions on the case upon receiving the Committee's final recommendation.

**Responsibility of the Student Performance Committee:** Upon preliminary investigation, the Student Performance Committee may request that the issue(s) be referred back to the Dean with a rationale as to why this would be a more appropriate venue to address the issue(s). When the Student Performance Committee believes that a case warrants formal investigation, the Committee will appoint a Student Conduct Subcommittee, which shall consist of at least one member of the Student Performance Committee, who shall serve as Chair, two voting faculty members not on the Committee, and one student representative. All members of the Student Conduct Subcommittee have full voting privileges.

As future professionals, each student must assume personal responsibility for honesty and integrity.

When dealing with allegations of student violations of professional conduct, the Student Performance Committee follow the following procedure.

1. The Committee Chair will notify the student in writing of the specific charges and the time and date of the hearing where the charges will be considered by the Committee/Subcommittee.
2. The notice shall state whether expulsion from the University may be considered if the charges are found to be true.
3. If a member of the Student Performance Committee/Subcommittee has a conflict of interest regarding the allegations, the chairperson of the Committee/Subcommittee shall recuse the

- member and will appoint another faculty member to serve as a member of the Committee/Subcommittee for the purposes of hearing and deliberating on the allegations.
4. Except as noted below, the meeting to consider the charges will be closed to all individuals not directly involved.
  5. The Committee/Subcommittee may exclude witnesses except during the time they are testifying.
  6. If the notice of the hearing states that expulsion from the University will be considered if the charges are found to be true, or if the circumstances warrant, the student may request permission for a mentor to appear at the meeting to assist the student.
    - a. The mentor is normally limited to advising the student and is not permitted to examine witnesses or otherwise participate directly in the proceedings. However, the Committee/Subcommittee may permit the mentor to participate directly where special circumstances are shown that warrant such participation.
    - b. The student shall make any request for a mentor to appear or participate in writing, and the request must identify the mentor the student desires and provide any additional information the student deems relevant to the request.
    - c. If the allegation involves activities that may result in criminal charges being filed, the student's request for a mentor must be granted.
    - d. In other circumstances the Chair of the Committee/Subcommittee will normally inform the student within three business days of receipt of the request whether the mentor will be permitted to attend the hearing.
  7. If the student requests, the specific charges will be read to the student by the Chair of the Committee/Subcommittee. If the charges are not read, the charges will be deemed to be those specified in the notice of the hearing.
  8. The student will be permitted the opportunity to testify and present evidence and witnesses on his/her behalf.
  9. In addition, the student, as well as any witnesses, is subject to questioning by members of the Committee/Subcommittee.
  10. The student will also be provided the opportunity to question witnesses called by the Committee/Subcommittee. If the Subcommittee agrees to consider affidavits, declarations and other written statements and documents as part of its deliberations, the student will be provided copies of any such documents at least two days prior to the hearing.
  11. If the student desires to present any written documents, these documents must be provided to the hearing panel at least two days prior to the hearing. The student is responsible for presenting all evidence he/she deems relevant at the scheduled hearing unless such evidence cannot be presented at that time due to circumstances beyond the student's control. Should such be the case, the Chair of the Committee/Subcommittee, at his/her discretion, may grant a continuation of the hearing if warranted.
  12. Similarly, if a party or witness called by the Committee/ Subcommittee is unavailable, but whose testimony is considered important to the hearing or due to other circumstances, a continuation of the hearing may also be granted.
  13. The Committee/Subcommittee shall determine whether, based on the evidence presented, it is more likely than not that the charges made are true.
  14. If a Subcommittee reviewed the case, the Student Conduct Subcommittee will forward their findings and recommendations to the Student Performance Committee for vote.
  15. The Student Performance Committee will review the recommendation and then forward the original recommendation, along with a statement of concurrence or of an alternate recommendation, to the Dean.
  16. The Dean will affirm, deny or send back to the Committee for further deliberation.

The student may appeal the action of the Dean following policies listed in the **General Academic Policies and Procedures** section in the **Overview Section** of this Catalog.

**Maintenance of Records:** Student Professional Conduct records will be maintained by the Office of the Dean of the College of Pharmacy for seven years or until the student for whom they pertain graduates, unless the Dean determines there is good reason to retain the records longer.

### **Conduct Suspension**

Conduct suspension may be imposed as a result of conduct/behaviors that are deemed by the Student Performance Committee to be adversely affecting the student's pharmacy school performance and ability to engage the subject material, but the behavior-conduct does not, in the opinion of the Committee, warrant a recommendation for dismissal. The student would be recommended for conduct suspension for a period of time deemed appropriate by the Student Performance Committee and/or Dean, but generally would not exceed one academic year or until the conditions that provoked the conduct suspension in the first place are satisfactorily remedied in the opinion of the Student Performance Committee/Dean. In cases where the Student Performance Committee needs external assessments to make a final decision, they may recommend to the Dean that the student obtain psychological, medical and/or educational assessments (See Section 14 of the **General Academic Policies and Procedures**).

**Appeal Process:** Students may appeal decisions regarding suspension, student conduct, academic progression/promotion and graduation according to the regulations listed in the **General Academic Policies and Procedures** section in the **Overview** section of the Catalog.

### **Course Grade Appeals**

Faculty have the expertise and authority to render judgment regarding the quality of a student's academic work. The course facilitator has final responsibility in assigning grades to activities assessed within a course. A grade appeal is to be used as a last resort after every effort has been made between student and faculty to resolve grading questions or disputes.

Course Grade Appeals will only be considered when they meet the following required criteria:

1. Only the final course grade may be appealed. The course facilitator has final decision regarding:
  - a. Any questions or concerns related to grades assigned to specific course assessments.
  - b. Any questions or concerns relating to specific test/exam questions.
  - c. Any questions or concerns related to the interpretation of grading criteria for assessing mastery of course material
2. The course grade is inaccurate or biased and the student has evidence supporting one of the following circumstances:
  - a. There was prejudice or discrimination resulting in the unequal application of grading standards.
  - b. The grade assigned does not correspond with or conflicts with the course syllabus or published College policy.
  - c. There was a computation error resulting in an incorrect final grade.

In order for a Grade Appeal to be considered, the student must:

1. submit the grade appeal in writing within 30 days of the last day of the course to the Director of Student Services.
2. specify in the written appeal how the Required Criteria (above) apply to the situation.
3. provide specific documentation/evidence in support of the applicable Required Criteria.

The appeal shall be submitted to the Director of Student Services who, upon receipt, will forward a copy of the appeal to the Chair of the Student Performance Committee. If the Student Performance Committee, upon review of the appeal, believes that the case warrants formal investigation, the Committee may decide to investigate the matter or decide that a Grade Appeals Sub-Committee will be appointed.

If a Grade Appeals Sub-Committee is appointed, it shall consist of at least one member of the Student Performance Committee, who shall serve as Chair, two voting faculty members not on the Committee, and one student representative. All members of the Grade Appeals Sub-Committee have full voting privileges.

The Grade Appeals Sub-Committee will conduct its own investigation in conjunction with such an appeal following established procedural guidelines for handling student appeals of an academic nature. The student making the appeal will be invited to meet with the Grade Appeal Sub-Committee to substantiate his/her appeal. The Grade Appeals Sub-Committee will forward their recommendation to the Student Performance Committee. The Student Performance Committee will review the recommendation and then forward the original recommendation, along with a statement of concurrence or of an alternate recommendation, to the Dean. Should the Student Performance Committee elect to investigate the matter,

it will follow the same procedures as the Grade Appeal Sub-Committee, and forward the Committee's recommendation to the Dean. The Dean's decision on the grade earned by the student is final.

### **Research Activities**

Students in the College of Pharmacy are encouraged to participate in research under the direction of faculty advisor(s). Students with appropriate interests and academic preparation may participate in research as part of the elective program.

### **DESCRIPTION OF BLOCKS/COURSE DESCRIPTIONS**

Blocks listed in this catalog are subject to change through established academic channels. New blocks and changes in existing blocks are approved by the College of Pharmacy Curriculum Committee and the Faculty.

### **FIRST YEAR**

The 5000 series is assigned to didactic blocks in the Basic Science Foundations and Professional Practice Foundation blocks for the first-year pharmacy students (P1).

#### **PHRM 5111 Foundations of Pharmacy Practice and Self-Care Therapeutics I (5 credits)**

The Foundations of Clinical Pharmacy Practice (PHRM 5111) is designed to introduce the student to the knowledge, skills and attitudes necessary for successful completion of the Pharm.D. curriculum, and to begin to develop foundation skills for patient-centered practice. General topics include contemporary pharmacy practice issues and the role of the pharmacist as a health care provider, written and verbal communication skills, ethics, law, professionalism, pharmaceutical care, drug information, the US health care system (history, overview, stakeholders, providers, public health policies, and the Food and Drug Administration), health care financing (Medicare, Medicaid, private insurance, and managed care), patient counseling skills, selected skills development, and an introduction to pharmacy practice (community pharmacy and hospital pharmacy) clerkships (IPPE).

#### **PHRM 5112 Foundations of Pharmacy Practice and Self-Care Therapeutics II (4 credits)**

This course reinforces the knowledge, skills, and attitudes introduced in PHRM 5111. Written and verbal communication skills and team collaboration skills are further developed through the use of SOAP notes and simulated patient encounters. General topics include the factors that lead patients to self-diagnose and self-treat their medical conditions, the role of the pharmacist in self-care therapeutics, the proper selection and use of nonprescription medications and dietary supplements, patient assessment skills utilizing QuEST/SCHOLAR method, nonprescription and dietary supplement product counseling, and contemporary pharmacy practice issues, laws, and regulations. Prerequisite: PHRM 5111.

#### **PHRM 5113 Research Methods and Biostatistics (1 credit)**

This block focuses on an introduction to research methodology and biostatistics. Students will use these tools in this block to begin to review and evaluate peer-reviewed clinical studies. They will continue to use these tools in subsequent blocks to evaluate clinical studies pertaining to specific therapeutic topics. Formerly PHRM 5114.

#### **IPE 5000 Patient Centered Cases I– An Interprofessional Approach (1 credit hour)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

#### **IPE 5100 Patient Centered Cases II– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 5000.

**PHRM 5221 Pharmacological Basis of Therapeutics I (3.5 credits)**

This series of courses (PHRM 5221, 5222, 5223 and 5224) integrates pharmacology, pathophysiology, medicinal chemistry and toxicology building on the principles acquired in biochemistry, anatomy, and physiology. The objective of these courses is to present the principles of drug-receptor selectivity, mechanisms of action of drugs, and the rationale for their therapeutic use. The series of courses focus on pharmacodynamics (how the drug affects the body's functions) and pharmacokinetics (how the body handles the drug) and provides an integrated, scientific basis for understanding desired effects (therapeutic uses) and undesired side effects (adverse effects or drug-induced toxicity). The series focuses on the human system and provides the organizational knowledge and background relevant to the pharmacy practice sequence of courses presented in the second and third years. Principles addressing cellular, tissue, and organ physiology provide a conceptual framework to introduce pharmacology by emphasizing commonalities of drug mechanism with drug classification. Prototype drugs in each pharmacological class are provided for comparing and contrasting with other agents in the same class and/or for other drugs used therapeutically but with different mechanisms of action. Fundamental principles are emphasized with the intent of providing their relevance for prevention and treatment of disease using therapeutic agents, most of which can be considered as modifications of intrinsic, biological compounds. PHRM 5221 begins with an introduction to pharmacology, including pharmacokinetics, pharmacodynamics, and toxicology, as well as introducing agents that affect the autonomic nervous system (parasympathetic and sympathetic agents). PHRM 5222 focuses on agents used to treat cardiovascular disorders, asthma, and gastrointestinal disorders. PHRM 5223 covers CNS agents (sedative-hypnotics, anti-seizure agents, antipsychotics, and antidepressants), analgesics, and drugs acting on the endocrine system including diabetes. PHRM 5224 covers chemotherapeutic agents, nutritional biochemistry, and toxicology of specific agents.

**PHRM 5222 Pharmacological Basis of Therapeutics II (3 credits)**

Continuation of PHRM 5221. Prerequisite: PHRM 5221.

**PHRM 5223 Pharmacological Basis of Therapeutics III (3 credits)**

Continuation of PHRM 5222. Prerequisite: PHRM 5222.

**PHRM 5224 Pharmacological Basis of Therapeutics IV (3.5 credits)**

Continuation of PHRM 5223. Prerequisite: PHRM 5223.

**PHRM 5301 Pharmaceutics/Biopharmaceutics (3 credits)**

This block introduces the student to physicochemical principles and their applications in order to develop an understanding of the manufacture, compounding, and proper use of liquid (homogeneous and disperse systems), solid dosage forms (tablets and capsules), topicals, suppositories, aerosols, novel drug delivery systems, and veterinary products. The course includes a laboratory component in which students are required to compound various dosage forms and perform analytical studies related to them. Pharmaceutical calculations are an independent element; students must accurately determine the quantities of active and inactive ingredients required to prepare a dosage form. The pharmaceutical calculations component is required to be satisfactorily passed independent of other course content.

**PHRM 5302 Pharmacogenomics and Pharmaceutics (3 credits)**

Pharmacogenomics and Pharmaceutics deals with the physicochemical principles involved in formulating/compounding dosage forms such as parenterals, radiopharmaceuticals, ophthalmics and liposomes. The course discusses important issues in pharmaceutical technology, including the formulation and delivery of peptide, protein, and oligonucleotide drugs. Gene therapy and pharmacogenomics are also presented. The course includes a laboratory component in which students are required to compound various dosage forms and perform analytical studies related to them. Pharmaceutical calculations is an independent element; students must accurately determine the quantities of active and inactive ingredients required to prepare a dosage form. The pharmaceutical calculations component is required to be satisfactorily passed independent of other course content. Prerequisite: PHRM 5301.

**PHRM 5401 Immunology (3.5 credits)**

This course introduces students to the basics of immunology including, cells, organs and effector systems involved in both cell mediated and humoral mediated immune activity. Topics include regulatory

interactions between different components of the immune system and the deleterious effects of aberrant immune processes. The focus is on an understanding of disease state immunopathology, immunopharmacology and immunotherapeutics.

#### **PHRM 5501 Pharmacokinetics (3.5 credits)**

PHRM 5501 introduces students to the principles and basic concepts of pharmacokinetics, including compartmental modeling, distribution of drugs, volume of distribution, half-life and clearance concepts. Wherever appropriate, clinically relevant examples are used to emphasize these principles. Information will also include the relevance of pharmacokinetics in drug action and toxicity. Students will be encouraged to apply pharmacokinetic principles to clinical situations. The course will demonstrate the use of pharmacokinetic principles and essential equations in predicting plasma drug concentrations as well as changes in plasma drug concentrations that accrue over time. Prerequisites: PHRM 5301 and PHRM 5302.

#### **PHRM 5601 Overview of Clinical Practice (3 credits)**

This course is intended for International Post-Baccalaureate Doctor of Pharmacy students (IPBP) students admitted with advanced standing in the PharmD program) whose educational pharmacy experience has been outside of the US. The introductory course provides important information on topics such as the drug distribution system in the US, drug information, literature evaluation, biostatistics, the structure of the US health care system, and health care issues in the USA. The purpose of building the knowledge base of the IPBP is to allow them to be at par with their peers in the entry-level program. Additionally, introduction to patient counseling skills, the use of the objective, structured clinical examination (OSCE) in evaluating a student's clinical knowledge and skills, immunization certification, and self-study on medical terminology further strengthens their foundation such that their knowledge, skills and attitudes are in concert with the entry-level PharmD program in terms of the overall provision of pharmaceutical care. Prerequisite: Admission to the IPBP program. Required of all IPBP students.

#### **PHRM 5999 Introductory Pharmacy Practice Experience I (IPPE-I) (2 credits)**

Introductory Pharmacy Practice Experience I (IPPE-I) introduces students to pharmacy practice in a community setting. Students are expected to become competent in the following areas: laws and regulations pertaining to the licensing and operation of a pharmacy, the licensing and functions of a pharmacist, a pharmacy intern, a pharmacy technician and a pharmacy clerk; Federal and State legend laws; Federal and State narcotic laws; receiving and interpreting prescriptions; processing third party prescriptions; preparing a prescription order; dispensing a prescription order. In addition, students will be practicing patient counseling on non-prescription medications; practicing communication skills to patients and other health care providers, observing management principles and financial reimbursement processes and maintaining a portfolio that reports, comments and reflects on these essential competencies. Students are required to complete two IPPE-I rotations to a maximum of 4 credits. Requisites: Concurrent or prior enrollment in PHRM 5111 or PHRM 5112.

### **SECOND YEAR AND FIRST HALF OF THE THIRD YEAR**

The 6200 series describes the didactic curriculum for second-year student pharmacists (P2). The 6300 series denotes the didactic curriculum for the first half of the third year (P3). The series of Pharmacy Practice blocks (6201 – 6306) presents topics and accompanying skills that lay the foundation for the practice of pharmacy. The focus of the pharmacy practice blocks is to teach students how to integrate knowledge, skills, and attitudes necessary for patient-centered practice in a variety of areas in pharmacy practice. An introduction to the epidemiology, pathophysiology, pharmacology, and therapeutics relevant to gastrointestinal, respiratory, cardiology, endocrinology, neurology, psychiatry, immunology, microbiology, chronic pain, renal disease, nutrition, liver, hematologic, oncologic, and infectious diseases are covered in these blocks. Emphasis is placed on the principles addressing pharmaceutical care; pharmacoeconomics; pharmacy management; ethical, legal, and professional responsibilities; assessment, evaluation, and dissemination of drug information; written and verbal communication; and drug distribution. Students are taught how to recognize disease conditions, assess patient specific disease states, determine appropriate therapy, and monitor for expected efficacy and adverse effects associated with chosen therapy. The overall goal of each block is to enable students to integrate their knowledge of the disease state topic(s) presented in the context of formulating an individualized pharmacotherapeutic plan for a given patient. Emphasis is placed on communication skills that assess a student's ability to educate health professionals and patients

regarding lifestyle changes and drug therapy for specific diseases in a clear, concise, and organized manner. Collaboration with peers (teams) occurs in each block in order to teach students how to work with others.

Pharmacy Practice blocks 6205, 6210 and 6306 are designed to allow the student an opportunity to strengthen and expand their knowledge in the content areas previously covered while exploring some aspects of disease states in greater depth or breadth. Students engage in team discussions that incorporate and integrate aspects of those disease states previously covered. Skills (e.g., counseling, patient education, calculation applications, drug information, and drug monitoring activities) relevant to the practice of pharmacy will be practiced during these blocks. The blocks will end with a series of examinations covering content areas and skills learned and practiced during the previous blocks.

**IPE 6000 Patient Centered Cases III– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 5100.

**IPE 6100 Patient Centered Cases IV– An Interprofessional Approach (1 credit hour)**

Continuation of IPE 6000.

**PHRM 6201 Pharmacy Practice I (4 credits)**

PHRM 6201 begins the series of Pharmacy Practice blocks that present topics and accompanying skills that lay the foundation for the practice of pharmacy.

**PHRM 6202 Pharmacy Practice II (4 credits)**

Continuation of PHRM 6201.

**PHRM 6203 Pharmacy Practice III (4 credits)**

Continuation of PHRM 6202.

**PHRM 6204 Pharmacy Practice IV (4 credits)**

Continuation of PHRM 6203.

**PHRM 6205 Pharmacy Practice V (4 credits)**

Continuation of PHRM 6204.

**PHRM 6206 Practice Pharmacy VI (4 credits)**

Continuation of PHRM 6205.

**PHRM 6207 Pharmacy Practice VII (4 credits)**

Continuation of PHRM 6206.

**PHRM 6208 Pharmacy Practice VIII (4 credits)**

Continuation of PHRM 6207.

**PHRM 6209 Pharmacy Practice IX (4 credits)**

Continuation of PHRM 6208.

**PHRM 6210 Pharmacy Practice X (4 credits)**

Continuation of PHRM 6209.

**PHRM 6301 Practice Pharmacy XI (4 credits)**

A continuation of topic areas begun in the second year.

**PHRM 6302 Pharmacy Practice XII (4 credits)**

Continuation of PHRM 6301.

**PHRM 6303 Pharmacy Practice XIII (4 credits)**

Continuation of PHRM 6302.

**PHRM 6304 Pharmacy Practice XIV (4 credits)**

Continuation of PHRM 6303.

**PHRM 6305 Pharmacy Practice XV (4 credits)**

Continuation of PHRM 6304.

**PHRM 6306 Pharmacy Practice XVI (4 credits)**

Continuation of PHRM 6305. Students must pass all examinations administered in this block before they will be allowed to proceed to the APPE.

**PHRM 6999 Introductory Practice Experience II (IPPE-II) (4 credits)**

Introductory Pharmacy Practice Experience II (IPPE-II) introduces students to pharmacy practice in an institutional setting. Upon completion of the IPPEs, the pharmacy intern will be able to behave in a professional and ethical manner; articulate the pharmacist's role as a member of the health care team; communicate accurate and appropriate medical and drug information to a pharmacist, preceptor or other health care professional in a clear and concise manner; adhere to all State and Federal laws and regulations as a pharmacy intern in the practice setting; assess prescription or medication orders for completeness, authenticity and legality; verify that dose, frequency, formulation, and route of administration on prescription or medical orders are correct; accurately enter patient information into the patient's pharmacy profile or medication record; select the correct drug product, manufacturer, dose and dosage form and prepare it for dispensing; assure that the medication label is correct and conforms to all State and Federal regulations; communicate pertinent information to the patient to encourage proper use and storage of medications; assist patients seeking self care; and maintain a portfolio that reports, comments and reflects on these essential competencies. **Prerequisites:** Satisfactory completion of PHRM 5999 and didactic courses in the first and second years. **Not open for PharmD students entering the program prior to 2008.**

**ADVANCED PHARMACY PRACTICE EXPERIENCES (APPEs): SECOND HALF OF THE 3<sup>RD</sup> YEAR (P3) AND FIRST HALF OF THE 4<sup>TH</sup> YEAR (P4)**

The APPE rotations provide one year of supervised clinical education. Students advance their knowledge in areas such as taking drug histories, providing patient education, interpreting diagnostic data and dispensing and compounding medications. The 7000 series are designated for the APPE rotations.

Required rotations:

**PHRM 7110 Ambulatory care externship (8 credits)**

Supervised patient care experience in an outpatient setting under the supervision of a preceptor or faculty member of the College of Pharmacy.

**PHRM 7120 Institutional care externship (8 credits)**

Supervised patient care experience in a hospital or other institutional setting under the direct supervision of a preceptor or faculty member of the College of Pharmacy.

**PHRM 7210 Ambulatory care clinical (8 credits)**

Supervised clinical pharmacy experience emphasizing the development of pharmaceutical care skills in an out-patient setting.

**PHRM 7220 Institutional care clinical (8 credits)**

Supervised clinical pharmacy experience emphasizing the development of pharmaceutical care skills in a hospital or other institutional setting such as a long term care facility.

**Elective Rotations:****PHRM 7330 Elective clerkship I (8 credits)**

Supervised education in clinical, administrative or research settings that provide additional experience in specialty areas such as pediatrics, geriatrics, infectious disease, drug information, oncology, pharmaceutical research, pharmacy administration, etc.

**PHRM 7340 Elective clerkship II (8 credits)**

Supervised education in clinical, administrative or research settings that provide additional experience in specialty areas such as pediatrics, geriatrics, infectious disease, drug information, oncology, pharmaceutical research, pharmacy administration, etc. Prerequisite: PHRM 7330.

**PHRM 7350 Elective clerkship III (8 credits)**

Supervised education in clinical, administrative or research settings that provide additional experience in specialty areas such as pediatrics, geriatrics, infectious disease, drug information, oncology, pharmaceutical research, pharmacy administration, etc.

Prerequisite: PHRM 7340.

**PHRM 7360 Elective clerkship IV (8 credits)**

Supervised education in clinical, administrative or research settings that provide additional experience in specialty areas such as pediatrics, geriatrics, infectious disease, drug information, oncology, pharmaceutical research, pharmacy administration, etc.

Prerequisite: PHRM 7350.

**Electives:****FOURTH YEAR (P4):** 16 credits of elective coursework are required.

The 8000 series is designed for elective coursework and the comprehensive assessment/review weeks. The elective program is a capstone experience designed to prepare the student for his/her role as an entry level practitioner. Electives are offered in areas such as research, teaching, and advanced clinical practice. A project is required of each student.

**PHRM 8200 Elective Coursework (4 credits)**

Advanced level coursework in an area of special interest beyond that presented as part of the previous didactic coursework of the Doctor of Pharmacy Curriculum. Repeatable to a maximum of 16 credits.

**PHRM 8400 Advanced Electives (16 credits)**

Advanced clinical educational experiences in an area of special interest beyond that provided as part of the previous clinical coursework of the Doctor of Pharmacy curriculum. Repeatable to a maximum of 16 credits.

**PHRM 8600 Research Electives (16 credits)**

Supervised participation in pharmacy related research under the direct supervision of a faculty member. Repeatable to a maximum of 16 credits.

**PHRM 8800 Other Electives (4-16 credits)**

Individualized, supervised educational experiences in an area of special interest related to pharmacy practice beyond that provided by previous coursework in the Doctor of Pharmacy curriculum and not eligible for credit within PHRM 8200, 8400 or 8600. Repeatable to a maximum of 16 credits.

**Sample Schedule (Students entering in 2010):** The following schedule represents an example of the schedule for the blocks in one academic year. This schedule is subject to change.

Year	Block No.	Block Title
<u>First Year</u>		
Fall	5111	Foundations of Pharmacy Practice & Self Care Therap. I
	5221	Pharmacological Basis of Therapeutics I
	5222	Pharmacological Basis of Therapeutics II
	5301	Pharmaceutics/Biopharmaceutics I
	5401	Immunology
	5999	Introductory Pharmacy Practice Experience I
	IPE 5000	Patient-Centered Cases I

<b>Spring</b>		
	5112	Foundations of Pharmacy Practice & Self Care Therap. II
	5223	Pharmacological Basis of Therapeutics III
	5224	Pharmacological Basis of Therapeutics IV
	5302	Pharmaceutics/Biopharmaceutics II
	5501	Pharmacokinetics
	5114	Research Methods and Biostatistics
	5999	Introductory Pharmacy Practice Experience I
	IPE 5100	Patient Centered Cases II
<b>Second Year</b>		
<b>Fall</b>		
	6201	Pharmacy Practice I
	6202	Pharmacy Practice II
	6203	Pharmacy Practice III
	6204	Pharmacy Practice IV
	6205	Pharmacy Practice V
	IPE 6000	Patient Centered Cases III
<b>Spring</b>		
	6206	Pharmacy Practice VI
	6207	Pharmacy Practice VII
	6208	Pharmacy Practice VIII
	6209	Pharmacy Practice IX
	6210	Pharmacy Practice X
	IPE 6100	Patient Centered Cases IV
<b>Summer</b>	6999	Introductory Pharmacy Practice Experience II
<b>Third year</b>		
<b>Didactic</b>		
	6301	Pharmacy Practice XI
	6302	Pharmacy Practice XII
	6303	Pharmacy Practice XIII
	6304	Pharmacy Practice XIV
	6305	Pharmacy Practice XV
	6306	Pharmacy Practice XVI
<b>APPE</b>	R1	Inpatient Care Experiential (IX)
	R2	Ambulatory Care Experiential (AX)
<b>Fourth Year</b>		
<b>Fall</b>		
	R3	Inpatient Care Clinical (IC)
	R4	Ambulatory Care Clinical (AC)
	R5	Elective rotation
	R6	Elective rotation
	R7	Off
<b>Spring</b>	Jan-Apr	Advanced Electives

## **International Post-Baccalaureate PharmD (IPBP) Track**

### **Description of the IPBP Program**

The WesternU College of Pharmacy offers a unique opportunity for American and/or foreign trained pharmacists with a bachelor's degree (B.S. or equivalent) who wish to progress to the Doctor of Pharmacy (PharmD) degree. Applicants are admitted with advanced standing into the second year of our traditional PharmD curriculum, thereby bypassing the first year. The Doctor of Pharmacy degree awarded to the student in the international program is the same as those awarded to our students in the traditional PharmD program. Please refer to the PharmD section of the catalog for additional information on academic and student conduct policies and procedures.

### **Application Procedure**

1. **Original Admission Application Form** (completed and signed).
2. **Application Deadline:** All application materials must be received or postmarked by February 1, for admission in the following academic year.
3. **Application Processing Fee:** Non-refundable application fee for \$65 payable to Western University of Health Sciences.
4. **International Student Application (ISA):** International applicants, applicants who are not U.S. citizens and who are living in the U.S. and applicants who have applied for permanent residency but have not been approved at the time of application must complete the International Student Application (ISA). The ISA must be included in your Supplemental Application. There is no fee for the ISA.
5. **Resume/Curriculum Vitae:** Please provide a current resume or curriculum vitae.
6. **Bachelor of Science (or equivalent) in Pharmacy:** Please provide a copy of your degree certificate and enclose it with your application.
7. **Official Transcripts:** Submit official transcripts from all schools attended in the United States and/or a valuation of your credentials from each college or university attended in a foreign country. Please see the list of foreign credentials evaluation services. Transcript evaluation must come directly from the evaluation service. Photocopies are not acceptable. The minimum GPA requirement for admission into the program is 2.5 on a 4.0 scale.
8. **Personal Questionnaire:** Please complete the questionnaire and enclose with your application. The questionnaire can be downloaded from the IPBP website.
9. **TOEFL (Test of English as a Foreign Language):** TOEFL, including essay, is required for all applicants submitting course work from foreign schools, and for all permanent or temporary residents of the United States. **Exception:** The TOEFL exam will be waived for students who have graduated with a confirmed baccalaureate or higher degree from a United States institution. A minimum score of 213 for the Computer Based test, 550 for the Paper Based test or 79 for the new Internet Based TOEFL test must be submitted by June of the year of matriculation. TOEFL scores are valid for two (2) years. TOEFL scores will not be waived for pending baccalaureate and/or higher degrees or pending naturalization appointments. Official scores must be sent directly from the Education Testing Services (ETS). Photocopies are not acceptable. For more information regarding the TOEFL test, please visit their website at <http://www.toefl.org>.
10. **FPGEE (Foreign Pharmacy Graduate Equivalency Examination):** FPGEE scores are not required for entry into the IPBP program.
11. **Internal Assessment (IA):** The Internal Assessment (IA) exam is mandatory for consideration of admission into the program. The exam scores are valid for one (1) year. **Fee Information for IA Testing:** The following fee structure will apply to all applicants (a) US \$250 for online access to the IPBP study guide; (b) US \$250 for IPBP exam. All checks must be payable to Western University of Health Sciences. Single payments of \$500 are not accepted (see FAQ section on the University website for more information).
12. **References:** Three satisfactory recommendations (forms provided) from qualified individuals (not related to you) capable of evaluating your overall personality, professional enthusiasm and integrity. Each recommendation must be submitted in a sealed envelope that is signed over the seal by the recommender.

13. **Verification of Employment (Optional):** Letter(s) from current employer(s) verifying employment status. If self-employed, provide supporting documentation.

#### **IA/Interview Guidelines**

Upon successful completion of the above requirements, candidates may be invited for an interview session on or off-campus, based on satisfactory preliminary file evaluation. The IA examination will be conducted on the same day as the interview.

**IA Examination:** This exam serves as an entrance exam for admissions into the IPBP program. Scores from the test play a significant role in the overall admissions process (for more information visit our website at [http://www.westernu.edu/xp/edu/howtoapply/ipbp\\_general.xml](http://www.westernu.edu/xp/edu/howtoapply/ipbp_general.xml)).

**Oral Communication Skills:** These skills will be evaluated during a personal interview session conducted by members of the admissions committee. Each interview session will be approximately 30 minutes in duration. The purpose of this exercise will be to determine your command of the English language as well as interpersonal skills.

**Written Communication Skills:** All candidates will be required to take a written essay test wherein a topic of general interest will be presented. Time allowed for this activity is approximately 45 minutes. The purpose of this exercise will be to assess your overall ability and effectiveness in reading, writing and comprehension of the English language.

**Sample Schedule:** The following schedule represents an example of the schedule for the blocks in one academic year. This schedule is subject to change.

Year	Block No.	Block Title
<u>First Year Year</u>		
<b>Summer</b>	5601	Overview of Clinical Practice
<b>Fall</b>	6201	Pharmacy Practice I
	6202	Pharmacy Practice II
	6203	Pharmacy Practice III
	6204	Pharmacy Practice IV
	6205	Pharmacy Practice V
	IPE 6000	Patient Centered Cases III
<b>Spring</b>	6206	Pharmacy Practice VI
	6207	Pharmacy Practice VII
	6208	Pharmacy Practice VIII
	6209	Pharmacy Practice IX
	6210	Pharmacy Practice X
	IPE 6100	Patient Centered Cases IV
<b>Summer</b>	6999	Introductory Pharmacy Practice Experience II
<u>Second year</u>		
<b>Didactic</b>	6301	Pharmacy Practice XI
	6302	Pharmacy Practice XII
	6303	Pharmacy Practice XIII
	6304	Pharmacy Practice XIV
	6305	Pharmacy Practice XV
	6306	Pharmacy Practice XVI
<b>APPE</b>	R1	Inpatient Care Experiential (IX)
	R2	Ambulatory Care Experiential (AX)
<u>Third Year</u>		
<b>Fall</b>	R3	Inpatient Care Clinical (IC)
	R4	Ambulatory Care Clinical (AC)

	R5	Elective rotation
	R6	Elective rotation
	R7	Off
<b>Spring</b>	Jan-Apr	Advanced Electives

## HONORS AND AWARDS

The following awards for PharmD students are presented annually on Honors Day in April.

- President's Society Award
- The Joseph and Dorothy Gendron Journalism Award
- Arthur Madorsky, MD Memorial Scholarship Award
- Linda Fox Memorial Endowment Fund Award
- Albertsons/Sav-on Scholarship
- East-West Scholarship
- Debbie Robinson Memorial Scholarship
- Good Neighbor Pharmacy/Institute for Community Pharmacy Scholarship
- Hendricks Pharmacy Scholarship
- South Bay Pharmacists Association Scholarship
- The J.M. Long Foundation Scholarship
- Tribute to Caring Scholarship
- Walgreens Scholarship
- Wal-Mart Scholarship
- Dean's Letter for Service Recognition
- Who's Who Among Students in American Universities and Colleges Nominations
- Dean's List

The following awards are presented annually to graduates at the Commencement Dinner Dance:

- APhA-ASP Outstanding Graduate Award
- Dean's Award

## **Academic Calendar 2010-2011**

**PharmD PROGRAM  
(subject to change)**

Monday, May 17, 2010 Fall Semester Rotations Begin (4 <sup>th</sup> years) IPPE – 2 Rotations Begin (2 <sup>nd</sup> years)	Monday, Jan. 3, 2011 Spring Semester Classes begin (1st, 2 <sup>nd</sup> & 3 <sup>rd</sup> years, IPBP 2012, 2013)
Monday, July 12 – Thursday, July 29, 2010 PHRM 5601: Overview of Clinical Practice (Classes begin for IPBP 2013)	Monday, Jan. 17, 2011 Martin Luther King Holiday
Mon., Aug. 2 – Fri., Aug 6, 2010 Orientation	Monday, Feb. 21, 2011 Presidents Day
Saturday, Aug. 7, 2010 Convocation/White Coat Ceremony	Thursday, Apr. 7, 2011 Honors Day
Monday, Aug. 9, 2010 Classes begin (1 <sup>st</sup> , 2 <sup>nd</sup> & 3 <sup>rd</sup> years)	Friday, May 6, 2011 Last day of Spring Semester (3 <sup>rd</sup> & 4 <sup>th</sup> years; IPBP 2011)
Monday, Sept. 6, 2010 Labor Day	Friday, May 13, 2011 Last Day of Spring Semester (2 <sup>nd</sup> year; IPBP 2012)
Monday, Oct. 11, 2010 Columbus Day	Monday, May 16, 2011 PHRM 6999: IPE-2 begins for Group A
Monday, Nov. 8, 2010 Spring Semester begins (4 <sup>th</sup> years)	Thursday, May 19, 2011 Commencement (4 <sup>th</sup> years)
Wednesday, Nov. 24, 2010 (5:00 pm) Thanksgiving recess	Friday, May 20, 2011 Last Day of Spring Semester (1 <sup>st</sup> year)
Monday, Nov. 29, 2010 Classes Resume	Monday, May 30, 2011 Memorial Day
Friday, Dec. 17, 2010 Last day of classes, Fall semester	

# **COLLEGE OF PHARMACY**

## **Master of Science in Pharmaceutical Sciences**

### **PROGRAM OBJECTIVES**

The major focus of the Master of Science in Pharmaceutical Sciences (MSPS) program is to provide students with a strong research focus, training and skills in order to prepare them for careers in academia, the pharmaceutical industry, or public/private research.

### **PROGRAM OVERVIEW**

A minimum of 40 semester credit hours is required for completion of the MS program. This includes 20 hours of didactic study and 20 hours of research credits, leading to a thesis. The program emphasizes research in the pharmaceutical sciences.

### **PROGRAM FACULTY**

Program faculty are part of the Department of Pharmaceutical Sciences in the College of Pharmacy. Their areas of research emphasis include pharmacology, pharmaceutics, pharmacokinetics, drug metabolism, genomics, toxicology, and molecular immunology.

### **APPLICATION AND ADMISSIONS REQUIREMENTS**

Graduates with a bachelor of science degree in pharmacy, chemistry, biology or related scientific area are eligible for admission in the program.

Minimum criteria to receive consideration for admission follow. Meeting these criteria, however, does not guarantee admission into the program.

- A completed Western University of Health Sciences Graduate Application form (including all supplemental information for international applicants).
- Official transcripts of all undergraduate and graduate coursework with an overall GPA of 2.50 or greater on a 4-point scale.
- Applicants who wish to use course work completed outside the United States must submit transcripts for evaluation to one of the following services:

World Education Services P.O. Box 745 Old Chelsea Station New York, NY 10113-0745 (212) 966-6311 <a href="http://www.wes.org">www.wes.org</a>	Educational Credential Evaluators, Inc. P.O. Box 514070 Milwaukee, WI 53203-3470 (414) 289-3400 <a href="http://www.ece.org">www.ece.org</a>
Josef Silny & Associates 7101 SW 102 Avenue Miami, FL 33173 (305) 273-1616 <a href="http://www.jsilny.com">www.jsilny.com</a>	International Educational Research Foundation, Inc. P.O. Box 3665 Culver City, CA 90231-3665 <a href="http://www.i erf.org">www.i erf.org</a>

A course-by-course evaluation is required, and all course work must be designated as undergraduate, graduate or professional. Western University will only honor evaluations from one of the above services. The evaluation must be included with the application packet.

- Official test scores for the general aptitude portion (verbal, quantitative, and analytical) of the Graduate Record Examination (GRE) taken within the last five (5) years, with a score of greater than or equal to 1000 on the combined verbal and quantitative.
- Three letters of reference from individuals familiar with the applicant's scholarship and research potential.
- All applicants submitting course work from foreign schools are required to pass English language requirements before they are eligible for financial assistance. A minimum score of 89 on the Internal Based TOEFL (iBT) is required (minimum 23 Speaking, 22 Writing and 22 Listening). Only iBT scores less than 2 years old from the application deadline will be considered.

### **Application Deadline:**

Applications must be received (including all supporting application materials) no later than September 1 for the spring semester (January) and March 1 for the fall semester (August). Completed application that arrive before the deadline may be considered on a rolling basis.

### **TUITION AND FEES**

In estimating costs for one academic year of study at Western University of Health Sciences' MSPS program, you should include tuition and fees, laptop computer and printer, books and supplies, room and board, and other miscellaneous expenses. Actions of the Board of Trustees setting tuition and fees for the academic year are established during the previous spring term. The most current tuition and fees are as follows (subject to change):

- Tuition - \$631 per credit hour in 2010-2011 Academic Year.
- Other Mandatory fees specific to the College of Pharmacy will be provided separately.
- Application Fee - Non-refundable \$40 fee for those applying to the Western University MSPS program.

### **Other Fees**

\$200	Graduation Fee (assessed on candidates for graduation only)
\$400	(annual) Western University Parking Permit Fee (Optional)
\$30	(per day) Late Registration Fee
\$40	Lost Mail Locker Key
\$6	(each) Copy of Official Transcript
\$21	(each) Rush Transcript, First Class Mail
\$25	(each) Rush Transcript, Federal Express
\$10	Lost ID Badge
\$0.25 (per page) (replacement cost)	Copy of Student File Material Breakage Fee

### **FINANCIAL SUPPORT**

Financial support, which includes a stipend and full payment of tuition, is available to qualified applicants on a limited, competitive basis in the form of teaching and research assistantships. Support is for 12 months (including summers) and is limited to a total of two consecutive years for any student.

Students may also receive a travel stipend, which allows for travel to a national meeting.

### **ACADEMIC POLICIES AND PROCEDURES**

#### **Program Outcomes**

- 1. Critical Thinking:** The MSPS graduate will be able to identify and understand critical issues in pharmaceutical sciences. They should possess the ability to challenge and evaluate information using evidence-based research principles, as well as synthesize and integrate knowledge in the discipline, leading to new ideas, approaches and research.
- 2. Breadth and Depth of Knowledge:** The MSPS graduate will understand the current and historical theories, concepts, and models of pharmaceutical sciences. They should possess the ability to access and evaluate the literature of the discipline and understand the major issues in the current state of knowledge. They should also possess an ability to transcend traditional disciplinary boundaries and effectively conduct original, discovery-based or applied research in pharmaceutical sciences under the direct guidance of a faculty member.
- 3. Interpersonal Skills:** The MSPS graduate will possess the ability to write and speak about the current issues of pharmaceutical sciences to peers, practitioners and the public. They should be able to articulate and demonstrate knowledge of the discipline and write and present scholarship to professionals.
- 4. Collaboration Skills:** The MSPS graduate will be able to collaborate with other members of the research team, with colleagues (both within the discipline and across related disciplines), and if appropriate, with other communities of interest in the conduct of a research program.

- 5. Ethical and Moral Decision Making (Humanistic Skills):** The MSPS graduate will understand and exhibit the professional standards for responsible and ethical conduct of research in pharmaceutical sciences.
- 6. Life-Long Learning:** The MSPS student should be able to engage in life-long, self-directed learning to maintain and expand competence in the discipline, including staying abreast of current issues, methods and approaches in pharmaceutical sciences.
- 7. Evidence-Based Research:** The MSPS student will have a solid grounding in the literature pertaining to a particular question and be able to understand and appropriately use the methods and techniques of advancing knowledge in their field of study. They should be capable of designing, working within, and coordinating multi-disciplinary research programs.

#### **Faculty Advisor and Thesis Advisory Committee**

The faculty advisor serves as the Chair of the student's Thesis Advisory Committee and helps the student in his/her choice of electives and research projects/thesis topic. Further, the advisor may also assist the student in obtaining a research assistantship if funds are available. The Chair is responsible for the satisfactory academic progress of the student, and must hold committee meetings with the student on a regular basis.

Students will be assigned a faculty advisor prior to admission to the program, and must remain with that advisor for the duration of the degree program. The thesis advisory committee consists of at least three faculty members (the faculty advisor plus two other faculty). The Chair and at least two of the committee members must be full-time faculty in the Department of Pharmaceutical Sciences at the Western University of Health Sciences College of Pharmacy. Upon approval by the Department Chair, a fourth member from outside of the department may be eligible for appointment to the committee.

#### **Thesis**

The thesis will be based on a research project that the student will undertake during the MS program. The faculty advisor will help the student select a topic and mentor the student in his/her progress.

MS candidates are required to present a written report of the thesis and present it to the thesis advisory committee for approval. In addition, students will be required to defend their theses via an oral presentation of the thesis content at the end of the program. The oral defense may also include questions based on the required course work completed by the student. The defense committee will consist of the thesis committee and an external member from within the Western University of Health Sciences faculty, whose role will be to ensure that the defense is conducted fairly.

All candidates must pass a comprehensive examination covering the major and minor field, as well as the research and thesis. This usually is a two-hour oral examination. Members of the university faculty not on the thesis advisory committee may attend any oral examination as visitors. The faculty advisor will schedule the oral examination no later than the date of the deadline set by the Department Chair.

Successful completion requires the unanimous support of all members of the thesis advisory committee. If a student fails the oral examination, on re-examination may be accorded the student based upon the recommendation of the thesis advisory committee and approval of the Department Chair. Further re-examination may be allowed only under exceptional circumstances and only with the approval of the Department Chair and the Dean of the College of Pharmacy.

Upon satisfactorily passing all examinations, students are to provide 7-8 professional printed copies of their thesis for their committee members (3-4 copies), the department (1 copy), and the university library (2 copies).

A fee will be charged to the student for microfilming his/her thesis.

#### **Grading System**

Official grades are turned in to the Registrar from the College of Pharmacy Dean, at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available on the BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at <http://www.westernu.edu/registrar>.

Western University of Health Sciences makes use of letter grades, which may include a plus/minus (+/-) system of grading. The MSPS program makes use of letter grades only. A four-valued letter grade scale will be given, indicating:

Grade			Quality Points
A	-	Excellent	4
B	-	Good	3
C	-	Satisfactory	2
U	-	Unsatisfactory	0
I	-	Incomplete	0
Au	-	Audit	0
W	-	Withdrawal	0
M	-	Missing	0
CR	-	Credit	0
NCR	-	Non-credit	0

Courses are rated at one semester hour for each 12 contact hours. The grade point average is calculated at the end of each semester as the sum of earned grade points divided by the sum of semester hours passed and failed. A cumulative grade point average will be calculated and posted on the transcript.

No grade will be changed unless the instructor certifies in writing that an error in computing or recording the grade has occurred or that the student has completed course requirements for an Incomplete grade or remediated an Unsatisfactory grade.

### **Withdrawing from Courses**

Courses may be dropped without academic penalty on or before end of the third week of the semester. A course may be dropped after the third week of the semester only under unusual conditions. When the Department Chair approves dropping the course under such circumstances, a "W" will be assigned for the course.

### **Incomplete**

An Incomplete grade ("I") will only be assigned to students whose professional commitments and/or personal responsibilities prevent him or her from completing the requirements of the course. A student may remove an incomplete by completing course requirements within the following six calendar months or the final grade will be permanently recorded as a "U". This rule applies regardless of the student's enrollment status. A student not enrolled during the following six months must still successfully remove the "I" grade. The instructor must certify any grade changes. The I grade will remain on the student's transcript, along with the final grade assigned by the instructor.

### **Academic Standing**

Only grades in Western University of Health Sciences courses approved for graduate credit will be used in determining the overall grade point average for continuation in the MSPS program. If, at the end of any semester, the cumulative grade point average falls below 3.0, the student will be placed on academic probation, and financial support will be discontinued. A 2.0 (C) grade earned in any class may be applied toward graduation only if the overall grade point average at the time of application for graduation continues at a minimum 3.0 (B) cumulative grade point average. Any grade below a 2.0 (C) may not be applied toward graduation.

### **Dismissal**

If the cumulative grade point average remains below a 3.0 after the student completes a total of 9 (nine) graded credit units subsequent to being placed on academic probation, the student will be dismissed from the program. The student may be readmitted only after completion of a remediation plan recommended by the Thesis Advisory Committee. No course work taken as part of the remediation plan will be counted toward the MSPS degree or incorporated into the student's cumulative grade point average. Graduate level courses for which grades below "C" were earned may not be repeated during the remediation period.

### **Graduation Requirements**

For successful completion of the MSPS program, the faculty of the College of Pharmacy has established guidelines and requirements in addition to the courses and optional requirements listed above. Minimum requirements for graduation with an MS include:

- a. A minimum grade of 2.0 in each graduate course taken as part of the program.
- b. Overall 3.0 GPA of course work taken in the program
- c. Satisfactory completion and oral defense of a written thesis as well as satisfactory completion of all approved coursework.
- d. Attendance at the commencement ceremony during which time the degree will be awarded.  
Requests to be excused from this requirement must be submitted in writing to the President and approved subject to whatever additional stipulations the President shall make.
- e. All financial and other obligations to the University have been met.

No student may graduate until all "I" (incomplete) and "M" (missing) grades are removed, and the removal must be completed at least three weeks before the date of graduation, regardless of whether the course is included on the student's Plan of Studies

The program of studies must be completed within a minimum of two and a maximum of three calendar years.

### **PROGRAM DESCRIPTION**

To graduate, students must complete a minimum of 40 credit hours, including 8 credit hours of the two core courses, 4 credit hours of Graduate Seminar, 8 credit hours of Electives, and 20 credit hours of Research and Thesis.

#### Required Courses

PHSC 5101	Advanced Pharmaceutical Sciences I	4 credits
PHSC 5102	Advanced Pharmaceutical Sciences II	4 credits
PHSC 6000	Graduate Seminar	2 credits
PHSC 5000	Laboratory Rotations	2 credits
PHSC 6999	Research and Thesis	5 credits

#### Elective Courses

PHSC 6101	Novel Dosage Forms	4 credits
PHSC 6102	Advanced Physical Pharmacy	4 credits
PHSC 6103	Product Development	4 credits
PHSC 6201	Advanced Pharmacokinetics	4 credits
PHSC 6301	Neuropharmacology	4 credits
PHSC 6302	Advanced Pharmacology	4 credits
PHSC 6401	Advanced Immunology & Molecular Biology	4 credits
PHSC 6501	Structure Activity Relationships	4 credits
PHSC 6601	Cosmetics	4 credits
PHSC 6701	Advanced Toxicology	4 credits
PHSC 6801	Biostatistics	4 credits
PHSC 5990	Directed Readings	1-4 credit(s)

## **Example Degree Schedule**

Semester	Course	Credits
Fall, Year 1	Adv. Pharm. Sci. I	4
	Graduate Seminar	2
	Research	5
Spring, Year 1	Adv. Pharm. Sci. II	4
	Graduate Seminar	2
	Research	5
Summer	Paid Summer Research	No Credits
Fall, Year 2	Elective I	4
	Graduate Seminar	2
	Research/Thesis	5
Spring, Year 2	Elective II	4
	Graduate Seminar	2
	Research./Thesis	5
<b>Total</b>		<b>44</b>

### **Transfer Credit**

A maximum of 10 graduate credits in which the student has earned an “A” from an equivalent program from another university will be honored towards the MS in Pharmaceutical Sciences for students transferring into Western U. The Department must approve all transfer credit, and the decision of the department is final.

## **COURSE DESCRIPTIONS**

### **PHSC 5000      Laboratory Rotations**

**2 credit hours (Graded)**

Assigned laboratory experiences introducing students to the research techniques and protocols under the guidance of faculty members in the Department of Pharmaceutical Sciences.

### **PHSC 5101      Advanced Pharmaceutical Sciences I**

**4 credit hours (Graded)**

This course covers a wide range of topics such as immunology, pharmacology, biostatistics and toxicology. Some laboratory safety and research techniques will also be discussed in the course.

### **PHSC 5102      Advanced Pharmaceutical Sciences II**

**4 credit hours (Graded)**

This course covers a wide range of topics in advanced pharmaceutical sciences such as pharmaceutics, biopharmaceuticals, biotechnology, pharmacokinetics, drug metabolism and transport, and pharmacogenetics.

### **PHSC 5990      Directed Readings**

**1 credit hour (Graded)**

Selected study of topics in the pharmaceutical sciences. Repeatable to a maximum of 4 credit hours.

### **PHSC 6000      Graduate Seminar**

**1 credit hour (Cr/NCr)**

Required of all MS in Pharmaceutical Sciences students. Repeatable to a maximum of 4 credit hours

### **PHSC 6101      Novel Dosage Forms**

**4 credit hours (Graded)**

This course covers the theoretical basis and design of controlled release and site specific drug delivery systems such as transdermals, microspheres, liposomes and monoclonal antibodies.

### **PHSC 6102      Advanced Physical Pharmacy**

**4 credit hours (Graded)**

Application of physiochemical principles in the evaluation of pharmaceutical systems, preformulation, and drug transport.

### **PHSC 6103      Product Development**

**4 credit hours (Graded)**

This course covers the formulation, evaluation and actual manufacture of pharmaceutical products.

<b>PHSC 6201 Advanced Pharmacokinetics</b>	<b>4 credit hours (Graded)</b>
This course covers pharmacokinetic and pharmacodynamic principles and methods used to study absorption, distribution, metabolism and excretion of drugs.	
<b>PHSC 6301 Neuropharmacology</b>	<b>4 credit hours (Graded)</b>
Neuropharmacology principles will be introduced and integrated with experimental applications. Course topics include chemical and electrical transmission, neurotransmitter chemistry, neuroreceptor pharmacology and signal transduction mechanisms, structure and function of ion channels and ligand binding sites, synaptic plasticity, and an introduction to electrophysiology. Relevant and recent primary literature articles will be introduced for reading and subsequent group discussion.	
<b>PHSC 6302 Advanced Pharmacology</b>	<b>4 credit hours (Graded)</b>
This advanced elective will address concepts and principles of neuronal identity and function that are germane to pharmaceutical sciences. Principles will be introduced followed by experimental applications. The course will integrate molecular, cellular, and behavioral concepts when applicable. Course topics include chemical and electrical transmission, neurotransmitter chemistry, neuroreceptor pharmacology and signal transduction mechanisms, structure and function of ion channels and ligand binding sites, synaptic plasticity with an introduction to electrophysiology. Relevant and recent primary literature articles will be introduced for reading and subsequent group discussion.	
<b>PHSC 6401 Advanced Immunology and Molecular Biology</b>	<b>4 credit hours (Graded)</b>
This advanced elective will address concepts and principles of molecular biology and immunology with an emphasis in molecular neuroimmunology. Topics will include cells, organs and effector systems involved in both cell-mediated and humoral-mediated immune activity. Time will be spent looking at regulatory interactions among different components of the immune system and the deleterious effects of aberrant immune processes. Principles will be introduced, followed by experimental applications. Relevant and recent primary literature articles will be introduced for reading and subsequent group discussion.	
<b>PHSC 6501 Structure Activity Relationships</b>	<b>4 credit hours (Graded)</b>
This course broadly reviews the area of structure-activity relationships wherein chemical changes on drug molecules are correlated with the pharmacodynamic effects of drugs. The focus is on quantitative structure-activity relationships (QSAR) using physicochemical, topological and molecular orbital approaches.	
<b>PHSC 6601 Cosmetics</b>	<b>4 credit hours (Graded)</b>
This course covers the formulation, evaluation and regulation of cosmetics, skin care products, shampoos, dentrifices, antiperspirants, sunscreens, decorative cosmetics and preservatives.	
<b>PHSC 6701 Advanced Toxicology</b>	<b>4 credit hours (Graded)</b>
This course will focus on the principles of toxicology and mechanisms of toxicity. Toxicology is the study of poisons. Examples of major toxic spills and human exposures will be discussed to illustrate the major adverse health effects associated with environmental toxins.	
<b>PHSC 68019 Biostatistics</b>	<b>4 credit hours (Graded)</b>
This course will cover various topics in descriptive and inferential statistics intended to introduce the student to the theoretical and practical aspects of statistics in research. Various topics will include central tendency, variability, hypothesis testing, multi-factorial analysis of variance, trend analysis, regression analysis and correlation.	
<b>PHSC 6999 Research and Thesis</b>	<b>1-5 credit hours (CR/NCR)</b>
Supervised research experiences for preparation of the thesis. Repeatable to a maximum of 20 credit hours.	

**Academic Calendar 2010-2011**

MSPS PROGRAM

(subject to change)

Monday, Aug. 9, 2010  
Classes begin

Monday, Jan. 3, 2011  
Spring Semester Classes begin

Monday, Sept. 6, 2010  
Labor Day

Monday, Jan. 17, 2011  
Martin Luther King Day

Monday, Oct. 11, 2010  
Columbus Day

Monday, Feb. 21, 2011  
Presidents Day

Wednesday, Nov. 24, 2010 (5:00 pm)  
Thanksgiving recess

Thursday, May 19, 2011  
Commencement

Monday, Nov. 29, 2010  
Classes Resume

Friday, May 20, 2011  
Last Day of Spring Semester

Friday, Dec. 17, 2010  
Last Day of Classes, Autumn Semester

Monday, May 30, 2011  
Memorial Day

# **COLLEGE OF PODIATRIC MEDICINE**

## **Doctor of Podiatric Medicine Program**

### **ACCREDITATION**

The Council on Podiatric Medical Education (CPME), the professional accreditation body for Podiatric Medicine has granted Western University College of Podiatric Medicine candidate status, which is the second of three steps in CPME's accreditation process. Although the achievement of candidate status by a college of podiatric medicine does not guarantee eventual accreditation, an institution that has achieved candidate status is viewed by the CPME to have satisfied the eligibility requirements and to have the potential for meeting CPME accreditation standards and requirements once the program of podiatric medicine is fully activated with students enrolled in all four years of the educational curriculum.

### **THE PODIATRIC MEDICAL PHILOSOPHY**

Podiatric medicine is both a profession as well as a medical specialty. The foundation from which students will attain those expected competencies necessary for entry level residency training begins with delivery of a solid thoughtfully orchestrated curriculum. Through introduction to clinical environment, student will learn to understand that the integrated basic and clinical science educational process forms the foundation for future clinical practice. So too must the development of patient care management protocols be grounded in a foundation of evidence-base medical principles. The development of critical thinking skills will be emphasized at each level of the educational process. Principles of research methodology will be woven into the educational process.

As the healthcare system in the United States continues to evolve, graduate of colleges of podiatric medicine must be able to assume a vital role as part of the medical health care team. To do so, the scope of education at the undergraduate professional level must be broad and comprehensive in content to include all of the educational resources that would be found in any medical college program of from both a didactic and clinical perspective.

We further believe in promoting a culture of excellence in the advancement of research and biomedical sciences and in the promotion of the health and welfare of the community at large by utilizing a comprehensive approach to the management of the disease processes that adversely affect the lower extremities.

Finally, we believe that we must serve as advocates for patients around the world who deserve better podiatric education and care and that services rendered to patients/clients served by the college must be patient-focused, culturally and linguistically appropriate that partner's with the other disciplines in the health science community is vital to the success of the College of Podiatric medicine.

### **COLLEGE MISSION**

The Mission of the College of Podiatric Medicine is to create a standard of academic excellence for the advancement of podiatric medicine. The Mission also supports the integration with the university health science community and provides for and creates a culture of lifelong learning for students and other community health professionals through an active continuing education program.

#### **Core Competencies in support of the College's Mission Statement**

- General Medical Knowledge
- Comprehensive Podiatric Medical Knowledge in each subspecialty area
- Patient –focused (centered) quality care
- Research
- Humanism
- Cultural Competence
- Inter-Professional Communication through Education
- Evidence Based Learning in Medicine
- Systems Based Practice
- Application-based Learning

### **Strategic Plan in Support of the Mission and Core Competencies**

As part of the University Strategic Plan, in January of 2005, the President and the University's senior management team engaged the University's Board of Trustees, faculty, and many members of the campus community in the creation of a long term strategic plan. The new plan was to set the stage for the direction the University would take to meet the current and future healthcare needs of the community at large. The outcome of the comprehensive strategic planning process resulted in approval by the Board of Trustees to investigate the possibility of the addition of four new colleges: Podiatric Medicine, Dental Medicine, Optometry and Biomedical Studies.

The College of Podiatric Medicine began the process of formulating a comprehensive, five-year strategic plan in 2008. The plan was published in 2009, and it is reviewed and updated annually. The strategic plan clearly emphasizes the core functions of the College. The first is educational programs (pre-clinical and clinical curriculum), but in order to achieve excellence in curriculum, two additional functions are necessary. CPM is working to develop Articulation Agreements with the State of California University Systems and other colleges and universities in Southern California on partnerships designed to offer an educational tract for promising talented students that desire an opportunity to attain early admission to the CPM. This program will be designed to fast-track these individuals through a coordinated effort between partnering institutions.

CPM is also partnering with the Western University of Health Sciences College of Osteopathic Medicine of the Pacific (COMP) to provide an integrated comprehensive pre-clinical curriculum. The goal is to facilitate quality educational enrichment for students of the College of Podiatric Medicine producing physicians and surgeons that will practice the art and science of the medical specialty of podiatric medicine and surgery. CPM will also focus on the promotion and investment in biomedical research, development of research faculty, and future podiatric medical educator for the 21<sup>st</sup> century. In addition, considerable effort has been invested in the initiation and implementation of a private practice enterprise for clinical faculty in addition to the Western University outpatient medical center that will be the cornerstone of the Patient Care Center (PCC) of Western University of Health Sciences. The CPM will also focus on the development of strong affiliation agreement with partnering academic health science centers, Veterans Administration Hospitals and Community Hospitals and Medical Centers that will serve to form the foundation for the clinical training for CPM students during the clinical educational process. The PCC facility at Western University of Health Sciences will be a comprehensive academic and clinical complex of nearly 250,000 square feet. It will enhance classroom space and provide for over fifty breakout rooms for small group discussion and study. An entire floor of the building is dedicated to additional research laboratories.

### **Curricular Outcomes/Goals**

The goal of CPM's curriculum is to prepare each and every CPM student with the knowledge, attitudes and skills to excel in post graduate podiatric medicine and surgery residency training programs of their choice. Specifically, the student will develop the expected competencies to enable them to demonstrate:

- Knowledge of pre-clinical science (application of didactic knowledge to clinical setting)
- Prevention, recognition, diagnosis and management of systemic diseases and local disorders that adversely affect the lower extremity, foot and ankle as seen in a podiatric medical practice
- Assessment of medical conditions effecting the lower extremity
- Development of professional ability to work with others, cultural competence, ethical behavior, humanistic behavior, compassion and concern for other
- Demonstration of the ability to function as a member of an inter-professional team
- Demonstration of the ability to understand research methodology and other scholarly activities
- Demonstration of the ability to understand podiatric medical practice and delivery of care in the various health-delivery settings (private practice, hospital-based practice, and health care educational systems such as college and academic health science centers, free standing colleges of podiatric medicine, health maintenance organizations group practices and inter-disciplinary practice settings)
- Demonstrate practice habits and management techniques for quality patient care in a variety of communities, healthcare settings and living arrangements.
- Identify the wide range of normal human functioning.
- Recognize, diagnose and treat the acute, life-threatening conditions encountered by the podiatric medical practitioner
- Differentiate health and common health problems from less common diseases
- Recognize conditions or situations which are best handled by consultation and/or referral
- Assess and treat chronic podiatric medical health conditions in various stages of progression

- Develop appropriate, professional doctor/patient relationships with patients encountered during the course of clinical education
- Develop an understanding of patient's individualized concerns and incorporate those concerns into a management plan to address patient needs
- Demonstrate appropriate use of evidence-base medicine as applied to the practice of podiatric medicine and surgery
- Demonstrate the use of medical references to understand current medical knowledge and integration of basic science with clinical applications.
- Demonstrate an understanding and application of current concepts of community health care strategies, epidemiology of disease processes, and the value of preventive health care and the need for screening examinations as a valuable tool for prevention of chronic disease manifestations in both general medical conditions as well as in the lower extremity, foot and ankle

### **PERSONAL COMPETENCIES FOR ADMISSION AND MATRICULATION**

A candidate for admission to the Doctor of Podiatric Medicine Program must have the use of certain sensory and motor functions, or reasonable accommodations, to permit him/her to carry out the activities described in the sections that follow. Graduation from the program signifies that the individual is prepared for entry-level podiatric medicine and surgery postgraduate training programs. It follows that graduates must have the knowledge and skills needed to function in a broad variety of clinical situations (medical and surgical) and to render comprehensive general medical and surgical as well as podiatric medical and surgical patient care. The podiatric medical student must be able to consistently and accurately integrate all information received all available means necessary. Also, he/she must have the intellectual ability to learn, integrate, analyze, and synthesize data. A candidate for the DPM degree must exhibit abilities and skills in the five areas identified below. When appropriate technological assistance is provided in the program, it may be permitted only as a reasonable accommodation. Under all circumstances, a candidate should be able to perform the following in a reasonably independent manner:

- Observation: Candidates and students must have sufficient vision to be able to observe demonstrations, experiments, and microscopic laboratory exercises. They must be able to observe a patient accurately at a distance and close at hand.
- Communication: Candidates and students must be able to communicate with patients and colleagues. They should be able to hear with or without reasonable accommodations. Candidates and students must be able to read English.
- Motor: Candidates and students should have sufficient motor functions to enable one to learn to execute movements (with or without reasonable accommodations) which are reasonably required to provide general care and emergency treatment of patients (i.e., palpation, auscultation, percussion, and other diagnostic and therapeutic modalities). Examples of emergency treatment reasonably required of podiatric physicians include: cardiopulmonary resuscitation, administration of intravenous medication, the application of pressure to stop bleeding, the opening of obstructed airways, the suturing of simple wounds, close manipulation of lower extremity fractures, and intra-operative (open reduction with internal or external fixation-ORIF/OREF) of fractures. These actions require coordination of both gross and fine muscular movements, equilibrium, and functional use of the senses of touch and vision.
- Intellectual, Conceptual, Integrative, and Quantitative Abilities: Students must demonstrate problem solving skills, which involve intellectual, conceptual, integrative and quantitative abilities. These abilities include measurement, calculation, reasoning, analysis, and synthesis. Problem solving, the critical intellectual skill demanded of a podiatric physician, requires all of these intellectual abilities. In addition, candidates and students should be able to comprehend three-dimensional relationships and understand the spatial relationships of structures.
- Behavioral and Social Attributes: Candidates and students must possess the emotional health required for full utilization of the intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the assessment and care of patients, and the development of mature, sensitive, and effective relationships with patients. Candidates and students must be able to tolerate physically taxing workloads, adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of many patients. Compassion, integrity, concern for others, interpersonal skills, interest, and motivation are all personal qualities to be assessed during the admissions and educational processes.

The College of Podiatric Medicine and Doctor of Podiatric Medicine Degree (DPM) program, along with all other programs at Western University of Health Sciences, shares a commitment to develop creative ways of opening the DPM curriculum to competitive, qualified individuals with disabilities. In doing so, however, the DPM degree program must maintain the integrity of its curriculum and preserve those elements deemed essential to educating candidates to become effective podiatric physicians.

## **ADMISSIONS POLICIES AND PROCEDURES**

Western University/CPM accepts applications from all qualified candidates. While grades and Medical College Admission Test (MCAT) scores are important in selecting candidates for admission and may suggest future academic success, the Admissions Committee recognizes that these statistics, by themselves, do not guarantee later success as a physician. The CPM will take into consideration the non-academic criterion that is also important in making the selection for candidates to the CPM. Western University/CPM seeks to admit a well diversified and balanced student population and consider factors such as a well-rounded background, prior work experiences, college and health care professionals letters of recommendation, interest in and knowledge of podiatric medicine, and each candidate's demonstrated professional promise. To ascertain these factors, an on-campus or pre-arranged regional interview is required prior to any action being taken in regards to a candidate's application. The College may exercise its discretion to rely upon additional considerations as needed on an individualized basis.

### **Entrance Requirements**

Candidates for admission to Western University/CPM must meet these requirements at the time of application:

- Completion of ninety semester hours, or three-fourths of the credits required for a baccalaureate degree, from a regionally accredited college or university.
- Completion of one academic year (or its equivalent) in English, biology, physics, inorganic chemistry and organic chemistry.
- One semester of human anatomy, microbiology, histology, zoology, behavioral science, biochemistry and of genetics is highly recommended.
- Applicants must submit their Medical College Admission Test (MCAT) scores.

Information concerning this test may be obtained from the pre-professional advisor at one's college or directly from the MCAT Program Office. This examination is offered in the spring and summer. Applicants are encouraged to take the examination in the spring of their junior year. To be considered for admission, the MCAT examination must be taken prior to May of the entering year.

### **AACPMAS**

Western U CPM, as well as all other colleges of podiatric medicine, participates in the profession's centralized application service through the American Association of Colleges of Podiatric Medicine Application Service.

AACPM is located at 15850 Crabbs Branch Way, Suite 320, Rockville, Maryland, 20855. Individuals interested in applying to Western University/CPM should write directly to AACPMAS for information and application materials or obtain application request cards from the Western University/CPM Admissions Office. At this time, applicants should also make arrangements to have official transcripts of all prior undergraduate and graduate course work forwarded to AACPMAS.

Upon receipt of the initial application and transcript(s), AACPMAS will collate materials, and transmit standardized information to the applicant and to those podiatric medical colleges that the applicant designates. AACPMAS takes no part in the evaluation or selection of applicants. After Western U CPM conducts a review of the AACPMAS application, and if a minimum of 90 semester hours has been completed and the applicant has otherwise been deemed eligible, the Admissions Committee may request additional information from the applicant for further consideration.

Additional information will include the following:

An evaluation of the applicant's work and accomplishments submitted by the Pre-Health Professions Committee of the applicant's college. If the college has no such committee, the student may submit evaluations from three classroom professors, two of whom must be in the sciences.

A letter of recommendation from a podiatric physician, osteopathic and allopathic physicians (At least one letter must be from a DPM). Any request for supplementary information must be returned within 30 days to the Director of Admissions at:

Western University of Health Sciences/CPM,  
309 E. Second Street,

Pomona, California 91766-1854

Once the candidate's/applicant's file is complete, the Admissions Committee reviews it to determine whether the candidate/applicant will be granted an interview. Each candidate will be contacted by the Chair of the Admissions Committee. If a candidate is deemed promising, he or she is invited to the campus at the candidate's expense. The candidate should plan to spend a full day on campus for orientation and the interview. Orientation consists of information on the curriculum, financial aid, student services, and clinical rotations; lunch with a Western University/CPM student and possible students from other disciplines of the university. A personal interview will take place with members of the Admissions Committee and/or faculty members from both basic and clinical sciences; and a tour of the facilities. The Admissions Committee evaluates the candidate's application and interview for acceptance to CPM. The candidate is then notified within 3 weeks of the interview regarding the status of his or her application.

Note: Candidates accepted to Western U CPM must have a complete set of official transcripts mailed to the Admissions Office no later than July 1.

AACPMAS retains the original set of transcripts it receives from applicants.

#### **Transfers from Other Schools**

Western U CPM is in its initial year of matriculation and does not at this time accept transfer candidates to advance standing.

#### **REGISTRATION**

First year students are required to register by the registration date specified in the University Calendar by the Registrar. Students in subsequent years must complete registration materials, including financial arrangements, prior to the dates specified in the Program Calendar (below). Matriculation and graduation are subject to the satisfactory completion of all academic requirements and payment of all outstanding debts to the University. Prior to registration, the matriculant must supply a final transcript, a physical examination with documentation of required immunizations, proof of health insurance coverage and a background check prior to registration are additional requirements for incoming students. The health insurance coverage must be in effect throughout the academic year. If there is no proof of current coverage, a policy provided by the University is available. Attendance at Orientation is mandatory for all first-year students.

#### **TUITION AND FEES**

By action of the Board of Trustees, DPM tuition and fees for the 2010-11 academic year (subject to change) are as follows:

\$27,915 Tuition (Annual)

Applicants accepted at Western University must pay an initial acceptance deposit of \$1,000, and a second confirmation of acceptance deposit of \$1,000. These payments are nonrefundable. Due dates for these two deposits are provided in the offer of acceptance letter. Upon matriculation the entire \$2,000 is applied toward the total tuition. For applicants who are granted deferred admission to the DPM program an additional non-refundable \$500 deposit is required to hold a seat in the next year's class. If an applicant fails to register, all tuition deposits are forfeited.

\$40 Student Body Fee (1st and 2nd year). This fee covers student government expenditures, social activities and public relations. \$20 Student Body Fee (3rd and 4th year). An APMSA \$50 Member fee is expected to be paid during the initial Student Orientation Week.

#### **Other Fees and Expenses**

\$600 Medical Equipment

\$800 Required and Recommended Texts-Fall

\$300 Required and Recommended Texts-Spring

\$500 Summer Medical Sciences Preparatory Program Fee

\$100 Audience Response System Device

\$45 Anatomy Supplies-Gloves, Scrub, Dissection Kit

\$200 Graduation Fee (assessed on candidates for graduation only)

\$400 Parking Permit Fee

\$30 (per day) Late Registration Fee

\$50 Special Examination Fee

\$40 Lost Locker Key  
\$10 Lost ID Badge  
\$6 (each) Copy of Official Transcript  
\$21 (each) Rush Transcript, First Class Mail  
\$25 (each) Rush Transcript, Federal Express  
\$0.25 (per page) Copy of Student File Material Replacement cost Breakage Fee

### National Board Fees

The College requires students to take and pass both sections of NBPME Part 1 and Part 2 of the National Board of Podiatric Medical Examiners as one of the requirements for graduation. These fees are subject to change by NBPME and are updated regularly. These fees can be found online at <http://nbpmefc@aol.com>

### Clinical Rotations Expenses

During the third and fourth years, some students may elect to do some clinical rotations away from the Pomona area, which is a self-imposed expense. In addition, students are required to return to campus several times during the clinical years for various educational experiences, conferences, etc. Any travel, food, housing or other expenses incurred by these activities or plans are the student's responsibility. Some rotations done at or through other institutions (e.g., certain hospitals or other medical schools) may involve application fees and/or other charges. Such rotations are elective; consequently these fees are the student's responsibility.

## ACADEMIC REQUIREMENTS

### Academic Advisement

Students will be assigned a faculty advisor upon matriculation. The academic advisor-student relationship can become one of the most valuable aspects of medical education. It provides an opportunity to develop sustained individual contacts between faculty and students on both academic and personal levels. If either the student or the instructor does not find the relationship helpful, either is free to seek a change. Such changes are arranged through the Executive Associate Dean for Academic Affairs-CPM.

### Grading Policies and Credit Hours

Official grades are turned in to the Registrar from the Executive Associate Dean for Academic Affairs of CPM, at which time the online student records system, BanWeb, is updated. Official grade reports and unofficial transcripts will be available on the BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at:

<http://www.westernu.edu/registrar>. CPM uses numeric scores—listed as a percentage.

Grades are reported according to the following values:

Percentage	Interpretation
90-100	Excellent (numeric range 90-100)
80-89	Good (numeric range 80-89)
70-79	Satisfactory (numeric range 70-79)
Below 70	Unsatisfactory (numeric range less than 70)
Hon	Honors (for clerkship grades only)
Pass	Pass (for clerkship grades only)
RPass	Remediated Pass (for clerkship grades only)
Fail	Fail (for clerkship grades only)
I	Incomplete
M	Missing
W	Withdrawal
CR	Credit
NCR	No Credit
Cert	Certification
AU	Audit

### **Clerkship Grading:**

Effective with the 2009-2010 academic year, the DPM 2013 class and beyond will have all clerkships, both required core and elective, evaluated utilizing a Honors, Pass, Fail system. Honors, Pass, and Fail will be the only grades that will appear on the transcript. Internally, for purposes of calculating class rank and GPA, the following system will be used:

Hon (Honors) = 100%,

Pass = 90%, and

Fail = 69%. A failed rotation must be remediated by completing a comparable rotation. The percentage score assigned for obtaining a Pass on a remediated/repeated rotation following a failing grade will be set at 70% for class rank and GPA computation.

Both the original course and grade as well as the remediated course and grade will appear on the transcript, but only the remediated passing score of 70% will be used in GPA and class rank computations.

### **Credit Calculations:**

Courses are rated at one credit hour for each 12 hours of lecture or 24 hours of laboratory and/or practice sessions. Credit hours of 2.5 will be assigned for each week of clinical rotations. A cumulative numeric score will be calculated and posted on the transcript. Class ranking is also available upon request in the Registrar's Office. Cumulative class ranking for transfer students will not be calculated. Podiatric undergraduate teaching fellows will not be ranked until their final year.

### **Cumulative Numeric Scores:**

The cumulative numeric score will be calculated at the end of each semester of the curriculum with the average of all course numeric scores weighted by the number of course credit hours attempted. If a course or clinical rotation is repeated or remediated, only the last score earned enters into the computation of the cumulative numeric score/grade point average, but the original numeric score remains on the student's transcript. After completion of the second year program, a student with a cumulative numeric score of 75% or less may have all third year clinical rotations assigned by the Assistant Dean for Podiatric Medical Education and Curriculum Development, the Assistant Dean for Clinical Education, or their designee(s).

### **Score Changes:**

No numeric score will be changed unless the instructor certifies in writing to the Executive Associate Dean for Academic Affairs and the Registrar that an error in computing or recording the score occurred. Changes are also recorded when the student has remediated a numeric score of below 70% or an Unsatisfactory grade after being directed to do so by the Executive Associate Dean of the College of Podiatric Medicine, as recommended by the Student Performance Committee. For on-campus courses, students have a maximum of two weeks from the time examination results are returned to them to bring any errors or irregularities in grading to the attention of the instructor. All recorded scores remain on the official transcript unless a clerical error has occurred. Remediated scores are re-recorded along with the original numeric score in the first two years. Only the remediated score is calculated into the cumulative numeric score. For third- and fourth-year students, no score will be changed after one month from the time the grade is recorded in the Office of the Registrar. Within the above-designated time, grade changes for clinical rotations will be considered only under the following three conditions:

- When the Office of Clinical Rotations receives a signed written statement from the preceptor specifying that a clerical error has been made regarding a score, and that the purpose of the change is to correct that clerical error.
- When the preceptor to whom the student was assigned submits a signed written request to have the score changed. The request must include justification for making the change.
- When a remediation process that has been directed by the Student Performance Committee and authorized by the Dean is completed and a written evaluation is received in the Office of Clinical Rotations.
- All score changes must have the approval of the Executive Associate Dean for Academic Affairs of the College of Podiatric Medicine or his/her designee. The student should make every effort to discuss his/her evaluation(s) with the assigned preceptor(s) prior to leaving the clinical rotation.

### **Incomplete Rotations:**

If a student leaves a rotation before it is finished without the permission of the Assistant Dean for Medical Education, or is asked to leave a rotation by the faculty member or the Director of Medical Education of a hospital, a

numeric score of 0 (zero) on that rotation may be assigned by the Executive Associate Dean for Academic Affairs in consultation with the Dean of the College of Podiatric Medicine.

#### **Incomplete Grade (I):**

An Incomplete (I) indicates that a student has not been able to finish all required work for issuance of a letter grade. An "I" is not counted in the grade point calculations until a letter grade is issued to replace the "I." An "I" must be replaced before the student registers for the next academic term, unless other arrangements are made with the instructor and the Executive Associate Dean for Academic Affairs. Replacement of an "I" will be under the direction of the instructor with the approval of the Dean or his/her designee. If the required work is not completed within the specified time, the "I" will be converted to the score provided by the faculty. It is to the student's advantage to arrange to make up any incomplete work as soon as possible. The incomplete (I) remains on the transcript and is followed by the grade/numeric score earned (i.e., I/90).

#### **Credit Courses (CR/NCR)**

Courses graded for Credit/No Credit are those designated by the faculty as courses required for promotion but not assigned numeric scores. The student must satisfy the requirements of these courses to receive credit.

#### **Exemption from Individual Preclinical Curriculum Course**

Students with advanced work or degrees in a particular subject may formally petition the professor and the Dean of the College Podiatric of Medicine for credit for an individual preclinical curriculum course. The petition must include the reasons for the request and all necessary documentation, and must be submitted by the end of the first week of class. The student must comply with the attendance policy until notification that exemption has been granted. The professor(s), before recommending exemption, will require acceptable performance on an examination. The professor(s), in consultation with the Dean of the College of Podiatric Medicine, may suggest other alternative or additional criteria for determining exemption.

#### **Standards of Satisfactory Progress**

Students must maintain a cumulative numeric score of at least 70% on a yearly basis to be considered making satisfactory academic and professional progress. A final numeric score below 70% during the first two years or any single numeric score below 70% in the last two years must be remediated for promotion or graduation.

#### **Examination Policies**

For most examinations, students may be given assigned seats and are expected to place themselves accordingly, unless prior arrangements have been made with the appropriate coordinator or instructor. Students will rigorously avoid any situation that lends either the opportunity to give, or the appearance of giving, information that can benefit another student's examination score. Students are not to discuss examination questions with other students during any examination that is administered in segments or over extended time periods. During scheduled examination hours, students will not be allowed to leave the exam room except in an emergency and as excused by the proctor. If a student is excused to leave the room temporarily, the proctor will hold the student's examinations until his/her return. Once a student finishes an exam and leaves the examination room, he or she will not be permitted to reenter the room until the exam is declared over. All students' belongings, such as notebooks, calculators, headwear, and headsets, will be kept in front of the room. No food or drink will be allowed during examinations. No student questions related to the exam or its content will be answered during the examination period. Students are permitted to point out typographical errors in the examination notebook.

#### **Violations of Examination Policies**

Violations of these examination policies or the Standards of Professional Conduct will be brought to the attention of the Dean or his designee and, subsequently, may be brought before the Student Performance Committee. Students who observe a suspected violation during an exam should report this to the proctor rather than attempt a personal intervention. Persons making verbal allegation must submit a written report to the Dean or his/her designee during the same day that the incident occurs. The Dean may make an executive decision on the matter or, if deemed appropriate, convene the Student Performance Committee as soon as possible to investigate the allegation. The student may also request a convening of the Committee. If evidence that a violation has occurred is presented to the Student Performance Committee and they make such a determination, recommendations to the Dean may include, but are not limited to, the following sanctions:

- Dismissal from the academic program.

- Suspension from the program for a designated period of time.
- Academic probation, the period to be recommended by the Committee.
- While an alleged violation is being examined by the Student Performance Committee, the status of the students involved in the case will remain unchanged pending the outcome of the investigation on this issue.
- In the case of insufficient evidence, the committee will recommend to the Dean that no action be taken against the student(s).
- After the receipt of the recommendation of the Student Performance Committee by the Dean, the disposition of the incident will be conveyed to the involved student(s) by the Dean, in writing, as soon as possible.

#### **National Boards (Licensing Examinations)**

All students must take and pass NBPME Part I and II prior to graduation, the College of Podiatric Medicine has established the following policies and procedures:

- All students must take Part 1 of the Podiatric Medical Licensing Examination (NBPME) prior to the start of the third year. Failure to meet this deadline will result in the student being referred to the Student Performance Committee. Part 1 may be taken at an NBPME approved testing center of the student's choice.
- Students may proceed to the third-year core clerkships as soon as they have taken NBPME Part 1.
- Failure to pass NBPME Part 1 will result in the student being referred to the Student Performance Committee. The Student Performance Committee may recommend that a student be removed from rotations and placed on academic suspension until they successfully pass NBPME Part 1. CPM will permit two attempts on Part 1, and a third attempt may be allowed in special circumstances, with approval by the Student Performance Committee and the Dean of Podiatric Medicine.
- Students who fail the NBPME exam a second time will be removed from rotations and placed on academic suspension. They may not re-enter the third year until notification of a passing score has been received by the Executive Associate Dean for Academic Affairs or Dean of Podiatric Medicine.
- Students who fail Part 1 NBPME on all three attempts will be subject to dismissal from the College of Podiatric Medicine.
- All fourth year students are required to pass the NBPME Part 2 Exam.
- Failure to meet this deadline will result in the student being referred to the Student Performance Committee.
- The NBPME Part 2 may be taken at an NBPME-approved testing center of the student's choice.
- The Office of Clinical Podiatric Medical Education will allow one business day away from the start of fourth year clerkships for a student to take the NBPME Part 2.
- The Office of Clinical Education will notify each student's clerkship site of his/her "approved" absence to take the NBPME Part 2 examination after the student notifies the Office of Clinical Podiatric Medical Education of the date of his or her examination.
- Students may not notify the clerkship directly. Additional time away to take the NBPME Part 2 will not routinely be authorized.
- Failure to pass NBPME Part 2 examination will result in the student being referred to the Student Performance Committee.
- The Student Performance Committee may recommend that a student be removed from rotations and placed on academic suspension until they successfully pass NBPME Part 2.
- Those who do not pass NBPME part 2 on the first attempt must successfully repeat the examination at the next possible iteration allowable by the NBPME.
- CPM will routinely permit two attempts on NBPME Part 2, and a third attempt may be allowed in special circumstances, with approval by the Student Performance Committee and the Executive Associate Dean for Academic Affairs or Dean of Podiatric Medicine.
- Students failing NBPME Part 2 for a second time must notify their residency program of their failure.
- Students studying for a third attempt will be removed from rotations and placed on academic suspension. They may not re-enter the fourth year until notification of a passing score has been received by the Dean of the College of Podiatric Medicine.

- Students who fail NBPME Part 2 on all three attempts will be subject to dismissal from the College of Podiatric Medicine.

### **Promotion**

Promotion is defined as academic and professional progression from one academic year to the next. The Student Performance Committee will recommend students to the Dean of Podiatric Medicine for promotion. The Student Performance Committee may not recommend a student for progression from one academic year to the next with an outstanding grade of "I," "NCR" in a required course, final numeric score of less than 70%, or a yearly cumulative numeric score of less than 70%. An essential element of the academic program is professionalism. Professionalism will be emphasized throughout the curriculum and is a stand-alone element in determining academic advancement and achievement. When considering a student for promotion, ethical, professional, and personal conduct will also be taken into consideration (see **Probation** in University Academic Policies section).

A student will be promoted provided that all academic, legal and financial requirements of the University, as stated in the University Catalog, have been satisfied. All academic requirements must be met within a maximum of six academic years as a condition for recommendation for graduation.

### **Veterans**

Veterans who fail to maintain satisfactory progress for more than one semester will not be certified to receive any Veteran's benefits until they have corrected the situation and are making satisfactory progress.

### **Graduation**

A student will be recommended for the degree Doctor of Podiatric Medicine provided he/she:

- Candidate has completed at least four years in an accredited College of Podiatric Medicine.
- Candidate has been enrolled in Western University of Health Sciences/College of Podiatric Medicine for four years or by special approval during his/her final two academic years.
- Candidate for graduation is not on academic suspension or probation and has completed all prescribed academic requirements with a cumulative numeric score of at least 70% (a grade point average of at least 2.0) and has no outstanding grade of I, U, Fail or a grade of "NCR" in a required Credit/No Credit course.
- Candidate has successfully taken and passed NBPME Part 1 and Part 2.
- Candidate has demonstrated appropriate ethical, professional, or personal conduct, as defined in the University Catalog, "General Academic Policies and Procedures" section, thus making it appropriate to award the degree of Doctor of Podiatric Medicine.
- Candidate has complied with all the legal and financial requirements of the University as stated in the University Catalog.
- Candidate is expected to complete all requirements for graduation by the subsequent December 31 and is expected to march with his/her class in the graduation ceremony. In order to walk at Commencement. Diplomas will be dated as appropriate to the completion date of all academic requirements.
- Unless special permission has been granted by the President of the University, all students must participate in person in the commencement program at which the degree is conferred. If the President grants special permission to be excused from graduation, the graduate may be required to present himself or herself at a later date to the Dean of Podiatric Medicine to receive the diploma and take the required oath.

### **Probation or Academic Suspension**

Students may be placed on Probation or Academic Suspension for the following reasons (these are in addition to the reasons listed in the General Academic Requirements section on Probation):

- Inadequate academic progress as determined by the Student Performance Committee. These include, but are not limited to, receiving a numeric score less than 70% in any course or system, or a grade of NCR in a required CR/NCR course.
- A cumulative percentage score of less than 70%.
- Failing to pass NBPME Part 1 upon the second attempt at this examination.
- Failing to pass NBPME Part 2 on the second attempt at the examination.
- When directed to repeat a year for academic reasons.

- Failure to perform in a professional manner.
- Serious deficiencies in ethical or personal conduct.

Students on Academic Suspension are not registered as an active matriculant and should be using this time to remediate for the deficiency for which the Academic Suspension was levied. It is important to remember that the matriculant is limited to six academic years to complete the course of study.

On campus students on probation must meet with their faculty advisor at least once a month. Off campus students on probation must contact their faculty advisor once a month. It is the student's responsibility to contact the faculty advisor to arrange these meetings.

A first or second year student on probation for a score less than 70% in the first semester will be removed from probation after one semester provided he/she has regained a cumulative score of at least a 70% and has remediated the course.

A first or second year student will be removed from probation when all scores below a 70% have been remediated satisfactorily according to the following **Remediation** section.

A third or fourth year student on probation because of a score below 70% must remediate the course or rotation. The student will then be reviewed by the Student Performance Committee at the end of the academic year and may be recommended for continuation of, or removal from, probation. Students who fail any portion of NBPME examination twice will be recommended for a remedial course of action under the direction of the Office of Podiatric Medical Education.

Students on probation are to remove themselves from all leadership roles in co-curricular activities associated with the University and/or with professional associations.

### **Remediation**

The educational objectives that underlie remedial teaching and evaluation should be the same as the educational objectives that underlie regular courses in the curriculum.

Students, who receive a final numeric score below 70% in a course or system, or a cumulative numeric score below 70%, will be reviewed by the Student Performance Committee. Where deemed appropriate, the Student Performance Committee, after consultation with the course instructor, system coordinator, and/or Executive Associate Dean for Academic Affairs, may recommend any one of the following options:

- Take a comprehensive examination.
- Complete special projects or studies in the deficient area(s).
- Repeat the course, system, or rotation.
- Repeat the academic year.
- Withdraw from the University (see **Dismissal** section for criteria for this option).

The score/grade achieved by remediation will be the score/grade recorded except that the highest score/grade a student may earn by options 1 or 2 (above) is a score of 70% in the first two years and a "Pass" in the last two years. The score/grade achieved by remediation will be re-recorded on the transcript along with the original score/grade. Numerical scores or grades earned during an attempted remediation of a course, system, or clinical rotation will be reviewed critically by the Student Performance Committee and the Executive Associate Dean for Academic Affairs of CPM. Failure to earn at least a 70% or "CR" may result in dismissal from the College of Podiatric Medicine or repeating the academic year. Decisions regarding remediation will be made on an individual basis after considering all pertinent circumstances. The decision will be made by the Dean of the College of Podiatric Medicine, based upon the recommendation of the Student Performance Committee. The Committee will base its recommendation on the student's academic record and other considerations after consultation with the student's faculty advisor, course instructor, system coordinator, Executive Associate Dean for Academic, clinical preceptor, and the student involved, as is appropriate. A student who is required to remediate a course must be notified in writing by the Executive Associate Dean for Academic Affairs of CPM at least 15 working days prior to the remediation date, or within 15 working days after the close of the academic year in which the student is presently enrolled, whichever comes first. Notification must either be sent by Certified Mail or hand-delivered to the student and must be acknowledged with the signatures of the Dean or his/her designee and the student.

### **Remediation: Financial Aid Policy**

If the student, at the end of the academic year, is still considered to be making unsatisfactory progress and must remediate, he/she is removed from the list of eligible Title IV and Title VII financial aid recipients. Remediation of courses during the summer is not covered by any financial aid and cannot be considered an expense item for the

following year. Students will attend at their own expense. Appropriate tuition and fees will be determined by the Treasurer/Chief Financial Officer in consultation with the Provost/COO and the Dean of Podiatric Medicine.

### **Dismissal**

The University may require withdrawal at any time it deems necessary to safeguard its standards of scholarship, conduct, and orderly operation. Examples of reasons the Student Performance Committee will recommend dismissal of a student include, but are not limited to the following:

- Receiving a cumulative numeric score of less than 70% at the end of the first or second year.
- Receiving a final percentage scores below 70% in two or more courses or systems totaling more than 25% of the total credit hours for the first or second year\*.
- Receiving numeric scores of below 70% in two or more clinical rotations in one academic year.
- Receiving a final percentage score of below 70% in a remediated course, system, or clinical rotation.
- Failing to pass the NBPME Part 1 examination after three attempts.

\*The Committee may recommend dismissal for a student receiving a final percentage score below 70% in three or more courses or systems, even if the total unsatisfactory credit hours do not exceed 25% of the total credit hours for the first or second years.

**Student Performance Committee:** The Student Performance Committee is comprised of three faculty members with the following ex officio members: the Director of Curriculum and Instructional Technology and the Director of Student Affairs. The Student Performance Committee shall review the performance and comprehensive evidences of progress of students who are pursuing the DPM degree. Particular attention will be given to students in academic difficulty as their grades are made available to the Committee by the Registrar or Dean of Western University/CPM. For purposes of clarification, “performance” is defined as those activities of a behavioral-conduct or academic nature that negatively affects or impairs the continued ability of a Western University/CPM student to successfully matriculate within the College of Podiatric Medicine. The office of the Dean and Executive Associate Dean for Academic Affairs may provide additional input to this process. After reviewing a student’s performance records, the Student Performance Committee may recommend to the Dean any of the following courses of action: promotion, probation, remediation, dismissal from the College, academic or conduct suspension, educational assessment and other appropriate recommendations. It may also recommend that no action be taken. The Student Performance Committee also has the responsibility of recommending to the Faculty, as a whole, the awarding of the degree of Doctor of Podiatric Medicine to all students who satisfactorily complete all requirements for graduation as stated in the University Catalog. All recommendations of the Student Performance Committee shall be in writing to the Dean, who will make the information available to the affected student. The Committee Chair will notify the students in cases of remediation or probation. The Executive Associate Dean for Academic Affairs will initiate leaves of absences. The Dean will notify the students in cases of suspension, dismissal or repeating of the academic year.

### **Attendance and Absences**

Attendance is required at all scheduled instructional periods. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during the periods. Frequent absences will be viewed as violations of the Standards of Academic and Professional Conduct. Students are expected to participate fully in all classroom and laboratory activities and in clinical education. Monitoring of the attendance policy for on-campus courses will be the responsibility of the Office of Executive Associate Dean for Academic Affairs.

Students are required to be present for all scheduled examinations and cannot begin an examination more than 15 minutes after the scheduled time without permission from the Office of Executive Associate Dean for Academic Affairs. For a student to be considered to take any examination at other than the scheduled time, the student must have prior approval by the Office of Executive Associate Dean for Academic Affairs. A student who cannot attend an exam due to unforeseen circumstances, including illness, should phone or e-mail the Director of CPM Student Services and Academic Advisement and Course Instructor/System Coordinator as soon as possible prior to or after the exam has been administered. A written explanation of the absence (including documentation on physician letterhead, in the case of illness) must be provided to the Office of Executive Associate Dean for Academic Affairs and the Course Instructor/System Coordinator the next day the student is on campus.

If a student misses an examination, the Office of Executive Associate Dean for Academic Affairs, in consultation with the Course Instructor/System Coordinator, will determine whether the absence is excused or unexcused. If the

absence is excused, the student will be permitted to take a make-up examination, the nature and time of which will be at the discretion of the Course Instructor/System Coordinator; the student will receive full credit for the makeup examination. If the absence is unexcused (e.g., failure to show up for a written or practical examination without a valid excuse as determined by the Office of Executive Associate Dean for Academic Affairs and the Course Instructor/System Coordinator), this is grounds for summary failure (a score of zero) for that examination. In the case of an unexcused absence, the student who fails the examination will be referred to the Student Performance Committee for recommendations regarding remediation or dismissal. In this case, if the Student Performance Committee recommends that the student take a remediation examination, the maximum score that the student can achieve on the examination will be 70%. If the student fails to take either a make-up or a remediation examination at the time designated by the Course Instructor/System Coordinator, without a valid excuse as delineated above, this will be grounds for summary failure (a score of zero) of that examination and referral to the Student Performance Committee, as described above. In such a case, a written report will be sent by the Course Instructor/System Coordinator to the Office of Executive Associate Dean for Academic Affairs, with a copy sent to the Chair of the Student Performance Committee and the Dean of College of Podiatric Medicine for appropriate disposition. Policies for attendance and absences during the third and fourth years are published in the CPM Clinical Rotations Manual.

### **Complaints Regarding Accreditation Standards**

The College of Podiatric Medicine (CPM) is committed to meeting and exceeding the standards for accreditation of colleges of podiatric medicine as described by the American Podiatric Medical Association, Council on Podiatric Medical Education (CPME). A copy of the standards is available upon request from the Office of Executive Associate Dean for Academic Affairs. A student who believes that CPM may not be in compliance with a standard of accreditation has the right to file a complaint through the following procedure:

- A written, dated and signed complaint must be filed with the Office of Executive Associate Dean for Academic Affairs, CPM.
- The Executive Associate Dean for Academic Affairs will consult with the Dean for CPM and form an ad hoc committee of faculty and students to investigate the complaint.
- The results of the investigation shall include findings of fact, a determination of standard compliance or non-compliance, and recommended corrective actions. The results will be communicated in writing to the Dean, Executive Associate Dean for Academic Affairs, and to the student complainant.
- If corrective action is indicated, the Dean will respond with a description/plan for such action within 30 days of receipt of the ad hoc committee's results.
- Records of all proceedings regarding complaints will be maintained by the Office of Executive Associate Dean for Academic Affairs of CPM.
- In the event that the student is not satisfied with the ad hoc committee's determination and/or corrective action, the student may communicate his/her complaint to:

Director

Council on Podiatric Medical Education

9312 Old Georgetown Road

Bethesda, Maryland, 20814-1621

### **CURRICULUM**

The curriculum at CPM is a four-year, full-time academic and clinical program leading to granting the degree of Doctor of Podiatric Medicine (DPM). This curriculum stresses the interdependence of the biological, clinical, behavioral, and social sciences. The emphasis is on educating physicians for general and podiatric medicine and surgery. CPM's educational program is centered on the basic concepts of general and podiatric medicine. The College of Podiatric Medicine identifies and develops the knowledge, the cognitive and psychomotor skills and the personal and professional behaviors required of a podiatric physician and surgeon in order to provide competent and comprehensive health care to all members of a family on a continuing basis.

### **Summer Medical Science Preparatory Program (SMSPP)**

Western University of Health Sciences College of Podiatric Medicine will offer a 5-week program on campus that will provide the attendees with an introduction to biochemistry, genetics, microbiology/immunology, and gross anatomy/head and neck anatomy. This optional five-week introductory preparatory program will be offered to a selected number of incoming DPM students. Students will purchase a workbook and remit a tuition fee of \$500. (See course description for PM 5001 below for additional information.)

### **Intensive Summer Anatomy Course (ISAC)**

This course is sponsored by the Anatomy Department for entering first year students. Preference is given to those who have had previous academic coursework/experience in anatomy. See PM 5002 for a course description.

### **First Year, First Semester (34 credit hours)**

- PM 5015 Introduction to the Study of Medicine (1 credit hour)
- PM 5025 The Molecular and Cellular Basis of Medicine (10 credit hours)
- PM 5030 Gross Anatomy (8.5 credit hours)
- PM 5035 Head and Neck Anatomy (3.5 credit hours)
- PM 5045 The Physician and Society I (2 credit hours)
- PM 5080 Essentials of Clinical Medicine I (3.5 credit hours)
- PM 5090 Podiatric Medical Principles and Practices I (Podiatric Medicine Surgery and Biomechanics) (3.5 credit hours)
- PM 5099 Service Learning I (1 credit hour)
- IPE 5000 Patient Centered Care – An Interprofessional Approach I (1 credit hour)

### **First Year, Second Semester (43 credit hours)**

- PM 5125 Neuroscience System (11.5 credit hours)
- PM 5130 Musculoskeletal System (5 credit hours)
- PM 5145 Introduction to Disease, Immunity, and Therapeutics (7 credit hours)
- PM 5155 Behavioral Medicine and Psychiatry (5.5 credit hours)
- PM 5175 Blood and Lymphatic System (4 credit hours)
- PM 5180 Essentials of Clinical Medicine II (3.5 credit hours)
- PM 5190 Podiatric Medical Principles and Practices II (Podiatric Medicine Surgery and Biomechanics) (3.5 credit hours)
- PM 5199 Service Learning II (2 credit hours)
- IPE 5100 Patient Centered Care – An Interprofessional Approach II (1 credit hour)

### **Second Year, First Semester (38 credit hour)**

- PM 6015 The Physician and Society II (3 credit hours)
- PM 6020 Cardiovascular System (8.5 credit hours)
- PM 6035 Renal System (4.5 credit hours)
- PM 6040 Respiratory System (8.5 credit hours)
- PM 6045 Endocrine System (5.5 credit hours)
- PM 6080 Essentials of Clinical Medicine III (3.5 credit hours)
- PM 6090 Podiatric Medical Principles and Practices III (Podiatric Medicine Surgery and Biomechanics) (3.5 credit hours)
- IPE 6000 Patient Centered Care – An Interprofessional Approach III (1 credit hour)

### **Second Year, Second Semester (29.5 credit hours)**

- PM 6115 Dermal System (3 credit hours)
- PM 6130 Reproductive System (6 credit hours)
- PM 6140 Gastrointestinal System and Nutrition (6.5 credit hours)
- PM 6172 Emergency Medicine (1 credit hour)
- PM 6173 Geriatrics (1.5 credit hours)
- PM 6176 Pediatrics (2.5 credit hours)
- PM 6180 Essentials of Clinical Medicine IV (3.5 credit hours)
- PM 6190 Podiatric Medical Principles and Practices IV (Podiatric Medicine Surgery and Biomechanics) (4.5 credit hours)
- IPE 6100 Patient Centered Care – An Interprofessional Approach IV (1 credit hour)

### **Clinical Training – Third and Fourth Years**

#### **Rotation Office**

The Executive Associate Dean for Academic Affairs and the External Rotation Coordinator are dedicated to providing our students with the best possible clinical educational experience and providing an exceptional service to

everyone with whom they interact. The Office will assist CPM and its students with planning for and completion of their clinical training in the third and fourth years of the educational experience.

### **Clinical Curriculum**

CPM's clinical curriculum consists of the following mandatory clerkship rotations:

#### **Third Year - 7000 Series**

(*Each course represents a 4 week, 40 hours per week clerkship.*)

- PM 7010 General Medicine/Family Medicine (4 weeks, 10 credit hours)
- PM 7020 Internal Medicine I (4 weeks, 10 credit hours)
- PM 7021 Internal Medicine II (4 weeks, 10 credit hours)
- PM 7022 Internal Medicine III
- PM 7030 Surgery I (4 weeks, 10 credit hours)
- PM 7050 Surgical Elective (Sub-Specialty Surgery) (4 weeks, 10 credit hours)
- PM 7060 Podiatric Medicine, Surgery and Biomechanics/Orthopedics I (4 weeks, 10 credit hours)
- PM 7070 Pediatrics
- PM 7080 Podiatric Medicine, Surgery and Biomechanics/Orthopedics II
- PM 7090 Podiatric Medicine, Surgery and Biomechanics/Orthopedics III
- PM 8055 Essentials of Clinical Medicine V (3.5 credit hours)

*Total credits required in the third year: 113.50*

#### **Fourth Year - 7500 Series**

(*Each course represents a 4 week, 40 hours per week clerkship.*)

- PM 7510 Internal Medicine IV
- PM 7515 Medicine Sub-Internship (4 weeks, 10 credit hours)
- PM 7520 Internal Medicine V
- PM 7521 Internal Medicine VI
- PM 7530 Surgery II Sub-Internship (4 weeks, 10 credit hours)
- PM 7540 Emergency Medicine (4 weeks, 10 credit hours)
- PM 7550 Elective
- PM 7560 Podiatric Medicine, Surgery and Biomechanics/Orthopedics IV
- PM 7590 Podiatric Medicine, Surgery and Biomechanics/Orthopedics V
- PM 8555 Essentials of Clinical Medicine VI (3.5 credit hours)

#### **Fourth Year (Core)**

The fourth year is comprised of 40 weeks of clinical instruction and learning experiences. Required (core) mandatory rotations (Emergency Medicine, Medicine Sub-I, Surgery Sub-I, and Podiatric Medicine) must be a minimum of 4 weeks in length:

- 1 Month General Medicine (Family Medicine, Internal Medicine, Pediatrics, Geriatrics, etc.) – this rotation is served as a sub-internship (Sub-I). PM 7515
- 1 month Surgery (General or Sub-Specialty or procedural specialty) -- this rotation is served as a sub-internship (Sub-I). PM 7530
- 1 month Emergency Medicine PM 7540
- Up to 3 months Elective PM 7550
- 4 months Podiatric Medicine Surgery and Biomechanics PM 7560
- Essentials of Clinical Medicine VI PM 8555
- 4 week lab session on surgical dissection (one four hour session per week)

*Total Credits in the fourth year: 103.50*

- Elective – These are all mandatory (4 week clerkships in hospital or outpatient facilities)

Each year's curriculum requirements may be completed in any order. There is a mandatory four-week break at the end of the MS III year. The minimum length of a rotation is four weeks. Rotations may not be split. A substantial number of rotations may be assigned for MS III and IV years by the Rotations Office, including a block

of rotations (four to six). The student may express a preference for preceptors and geographic locations for the remaining rotations.

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing coursework are initiated by the appropriate disciplines, departments, or programs, approved by the Curriculum Committee, the faculty, the Dean of the College of Podiatric Medicine, and the Executive Associate Dean of Academic Affairs. CPM uses a combination of numeric scores and letter grades. A numeric score, listed as a percentage, is used in the PMS I and II years and a 4-value letter grade is used in the last two years.

The Office of Clinical Podiatric Medical Education reserves the right to assign clerkships for PMSIII and PMSIV years as unforeseen situations may arise.

In order to foster a comprehensive fund of general osteopathic clinical skill and knowledge, the college will limit the number of elective clerkships in any single discipline (e.g., radiology, surgery, etc.) to not more than three elective rotations. The Dean of the College of Podiatric Medicine may grant exceptions to this elective limit policy should an extraordinary situation arise.

### **Implementation**

Clinical faculty and hospitals will implement the curriculum in a manner that balances the learning needs of the students and the educational resources available at the site. Clinical faculty and sites are encouraged to use a variety of teaching techniques including observation, monitored participation, video and audio recordings, computers, readings, individual discussions, and presentations by students, faculty and others to enhance learning.

### **Non-Clinical Experiences**

Non-clinical experiences like conferences, tumor boards, quality assurance meetings, hospital committees, etc., are important for students to observe in order to help them understand and appreciate the full spectrum of activities expected of physicians. Supervising physicians are encouraged to invite students to participate in as many non-clinical experiences as are practical.

### **Procedural Skills**

Part of the College's expectation is that students will gain a knowledge and understanding of various procedural skills. In addition to proficiency in the manual aspects of procedural skills, the College expects that the student will understand the indications, contraindications, risks, benefits, and alternatives for various procedures. Student performance of any procedure on a patient must be under the direct supervision of the assigned clinical faculty or their professional designee.

### **Evaluation of Students on Clinical Rotations**

The "clinical faculty member of record" is the physician to whom the student is assigned for a given rotation according to the Rotations Office records. That physician is responsible for the rotation evaluation, which does not include assigning a rotation grade. Grades are determined by the rotation evaluation, the didactic week OSCE (simulated patient examination) and the subject-specific self-examination. Additional criteria may also be included.

### **Recording of Grades**

For any reason other than a clerical error, no grade may be changed more than 20 business days after the Clinical Rotations Office reports it to the Registrar. Within those 20 days, a grade may be changed only if the Rotations Office receives a signed statement from the preceptor specifying that such a clerical error had occurred.

## **COURSE DESCRIPTIONS**

Courses listed in this catalog are subject to change through normal academic channels. New courses and changes in existing course work are initiated by the appropriate disciplines, departments, or programs, approved by the Curriculum Committee, the faculty, the Dean of Podiatric Medicine, and the Provost/COO. CPM uses a combination of numeric scores and letter grades. A numeric score—listed as a percentage—is used in the PMS I and II years and a 4-value letter grade is used in the last two years.

### **PM 5001 Summer Preparatory Program (0 credit hours, CR/NCR)**

The Summer Preparatory Program prepares incoming students for the Gross Anatomy course and provides an introduction to Biochemistry. The anatomy component focuses on the skeletal, muscular, cardiovascular and nervous systems, and a brief overview of other body systems. Presentations also focus on enhancing student study and test-taking skills. For students without prior course work in anatomy.

Acceptance into this program is at the discretion of the instructor/coordinator. The course is elective and does not meet any requirements of the Doctor of Podiatric Medicine curriculum. A separate tuition of \$550 is charged.

**PM 5002 Intensive Summer Anatomy Course (ISAC) (8.5 credit hours, Numeric Score)**

Prerequisite: Application to the course and permission of instructor. The Intensive Summer Anatomy Course (ISAC) is equivalent to the PM5030, given in during the summer to highly qualified incoming students. ISAC students who score 80% and may be selected to serve as facilitators (peer leaders) in the regular gross anatomy course. Properly trained facilitators lead dissection and discussion groups at intervals during the course, and some are selected as teaching assistants for the ISAC the following summer.

**PM 5003 ISAC Facilitation (4 credit hours, CR/NCR)**

Prerequisites: Completion of PM 5002 with a final percentage score of 80% or higher and permission of course director. Students enrolled in this elective course will be assisting the other first year students in the dissection of cadavers and otherwise aid studies in the regular Medical Gross Anatomy course. Other types of teaching assistance, including prosecting difficult-to-identify structures, may also be required.

**PM 5015 Introduction to the Study of Medicine (1 credit hour, Numeric Score)**

This course provides a systematic strategy for the entering student to study medicine. Learning styles and critical thinking skills are evaluated and training on accessing electronic medical resources is given. Students learn how to produce a portfolio that will record and exhibit their accomplishments throughout the four-year curriculum; Board examination study strategies are also reviewed.

**PM 5025 The Molecular and Cellular Basis of Medicine (10 credit hours, Numeric Score)**

This course presents an integration of molecular biology, biochemistry, cellular physiology and metabolism, introductory genetics and developmental histology within the context of their clinical applications of basic biomedical sciences.

**PM 5030 Gross Anatomy (8.5 credit hours, Numeric Score)**

This course presents an understanding of the structure and arrangement of the gross anatomical features of the human body. Through lectures and laboratory dissection of cadavers, students are introduced to the language of anatomy and to clinically important relationships. Models, radiographs and special demonstrations are employed to emphasize areas useful to the physician.

**PM 5035 Head and Neck Anatomy (3.5 credit hours, Numeric Score)**

This course is a continuation of the gross anatomy course (PM 5030). Through lecture and laboratory, students are introduced to the anatomy of the head and neck. Particular attention is paid to the cranial nerves, both their normal function and the numerous clinical syndromes that affect them. The anatomy lectures will also be supplemented with various clinical presentations.

**PM 5045 The Physician in Society (2 credit hours, Numeric Score)**

This course provides an exploration of the role of the physician in the larger society. This course explores philosophical and ethical issues of medicine through its literature and history. The impact of medicine on society and of society on medicine is explored.

**PM 5080 Essentials of Clinical Medicine I (3.5 credit hours, Numeric Score)**

The Essentials of Clinical Medicine I introduces students to the world of clinical medicine through a multifaceted approach, including early patient contact with both model and simulated patients, facilitated small group sessions, didactic sessions, self-directed and online exercises, and small group projects. Emphasis is on development of history-taking skills and physical examination skills, critical thinking skills, differential diagnosis formation, construction of treatment plans, and doctor-patient communication skills. Other components of the course include professionalism, medical informatics, service learning, and the role of the physician in society, and health promotion and disease prevention.

**PM 5090 Podiatric Medicine, Surgery and Biomechanics I (3.5 credit hours, Numeric Score)**

This course presents the podiatric history, philosophy, principles, problem solving and patient management, incorporating direct and indirect, traditional and contemporary podiatric medicine, surgery and biomechanics, from

an evidence based medicine perspective. Students will learn how to critique relevant information within the context of patient care processes. Students will further understand and develop strategies for clinical decision-making which will help them develop a pattern to lifelong learning.

**PM 5099 Service Learning (1 credit hour, Numeric Score)**

Through interaction and service to the community, this course develops the role and responsibility of the physician in society. Topics, including health education, public health, epidemiology and biostatistics, are learned through a practical approach.

**IPE 5000 Patient Centered Cases – An Interprofessional Approach I (1 credit hour, Numeric Score)**

This course is a required university seminar for all first year health professional students. It prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals, such as ethical, behavioral, social and psychological issues.

**PM 5125 Neuroscience System (11.5 credit hours, Numeric Score)**

This course presents the basic understanding of the brain, spinal cord and peripheral nervous system. Basic science topics include embryology, histology, neuroanatomy, biochemistry, physiology and pharmacology. Clinical topics include infections of the nervous system, pathology, neurology, ophthalmology, otorhinolaryngology, and overviews of sleep disorders, cerebrovascular disorders, aging and dementia.

**PM 5130 Musculoskeletal System (5 credit hours, Numeric Score)**

This course presents common conditions and disorders of the musculoskeletal system. The course also presents embryology, histology, and functional anatomy including kinesiology, biochemistry, physiology, microbiology and pharmacology. The pathology and clinical aspects of this system are discussed, as are the related aspects of sports medicine, rehabilitative medicine, exercise, rheumatoid disease and orthopaedics. Special focus will be placed on lower extremity developmental and degenerative disorders.

**PM 5145 Introduction to Disease, Immunity and Therapeutics (7 credit hours, Numeric Score)**

This is an integrated course introducing microbiology, immunology, pathology, and pharmacology to prepare students for more in-depth study during the systems. Genetics, as related to these disciplines, is also included. Clinical application of the basic sciences is emphasized.

**PM 5155 Behavioral Medicine and Psychiatry (5.5 credit hours, Numeric Score)**

Presented in conjunction with neuroscience, this course presents biological, psychological and social aspects of behavior in relation to medical practice. Major topics include the etiology of treatment of substance abuse, the physician-patient relationship, emotion and personality, etiology of gender identity and sexual orientation, human sexuality, evolutionary origins of behavior, and the genetic and environmental aspects of behavior. The course addresses how a patient's behavior contributes to their health and/or disease. The physician's role in the education for behavioral change is also discussed. The psychiatry portion of the course builds upon the bio-psychosocial foundation presented during behavioral sciences. Major DSM-IV diagnoses will be explored. Implications for medical practice will be emphasized. The course develops the physician's ability to recognize and deal with, or to refer, specific psychiatric cases.

**PM 5175 Blood and Lymphatic System (4 credit hours, Numeric Score)**

This course presents the embryology, histology and biochemistry of the hemopoietic and lymphoreticular organs. During this system, the influences of microbiologic and pharmacologic agents are discussed. The pathological and clinical aspects of hematologic disease and diseases of the lymphoreticular system are presented along with the pertinent laboratory test.

**PM 5180=DO 5180 Essentials of Clinical Medicine II (3.5 credit hours, Numeric Score)**

Prerequisite: PM5080. This course is a continuation of PM 5080.

**PM 5190 Podiatric Medicine, Surgery and Biomechanics II (3.5 credit hours, Numeric Score)**

Prerequisite PM 5090: Continuation of PM 5090

**PM 5199 Service Learning II (2 credit hours, Numeric Score)**

Prerequisite PM 5099: Continuation of PM 5099

**IPE 5100 Patient Centered Cases – An Interprofessional Approach II (1 credit hour, Numeric Score)**

Continuation of IPE 5000.

**PM 6015 The Physician and Society II (3 credit hours, Numeric Score)**

Prerequisite: PM 5045. This course is a continuation of PM 5045 and explores ethical and professional issues in medicine. Medical jurisprudence is presented as well as an introduction to healthcare systems.

**PM 6020 Cardiovascular System (8.5 credit hours, Numeric Score)**

This course presents the embryology, histology, and gross anatomy of the heart and blood vessels. The biochemistry, pharmacology, physiology, and microbiology as related to this system are also discussed. Cardiovascular pathologies are presented, along with the clinical diagnostic and treatment modalities.

**PM 6035 Renal System (4.5 credit hours, Numeric Score)**

This course presents the basic sciences topics in embryology and histology of the kidneys and urinary system, the biochemistry, physiology, and pharmacology of fluid and electrolyte balance with emphasis on kidney function, microbiology, pharmacology. Clinical topics include management of the urinary infections, and the identification, diagnosis, and treatment of renal and urinary disorders.

**PM 6040 Respiratory System (8.5 credit hours, Numeric Score)**

This course presents the embryology, histology, and gross anatomy of the lungs and nasotracheobronchial tree. Respiratory physiology and defense mechanisms, as well as microbiology, biochemistry, and pharmacology relating to the system are discussed. Pathology of the upper and lower respiratory system is presented along with the clinical presentations of diagnostic and treatment modalities.

**PM 6045 Endocrine System (5.5 credit hours, Numeric Score)**

This course explores the anatomy of the hormone secreting glands, the biochemical description of a hormone, how hormones are studied and measured, and the physiology of homeostasis. Pathologies of the endocrine system and the pharmacology of endocrine drugs are presented. Clinical manifestations of endocrine disorders of various ages are presented, with emphasis on identification, diagnosis, and treatment. The course also considers the evaluation and management of endocrine emergencies.

**PM 6080 Essentials of Clinical Medicine III (3.5 credit hours, Numeric Score)**

Prerequisite: PM 5180. This course builds upon the knowledge and skill that the student has learned in the first two courses in the series and provides advanced training in history-taking and physical examination skills, doctor-patient communication, differential diagnosis and treatment planning in preparation for clinical rotations. Issues including professionalism, medical error and patient safety, medical informatics and evidence-based medicine are reviewed. Students will have opportunities to add to their portfolios.

**PM 6090 Podiatric Medicine, Surgery and Biomechanics III (3.5 credit hours, Numeric Score)**

This course presents a continuation of the Podiatric Medical Principles and Practice II (podiatric medicine, surgery and biomechanics/orthopedics). This course provides the student basic fundamentals of podiatric medicine, biomechanics and surgery and management principles for problem solving and quality patient care and management. The student is provided principles of a clinical approach to the management of a variety of condition effecting the foot, ankle and lower extremity from an evidence based medicine perspective. Students will learn how to critique relevant information within the context of patient care processes. Students will further understand and develop strategies for clinical decision-making which will help them develop a pattern to lifelong learning.

**IPE 6000 Patient Centered Cases – An Interprofessional Approach III (1 credit hour, Numeric Score)**

Continuation of IPE 5100.

**PM 6115 Dermal System (3 credit hours, Numeric Score)**

This course presents problems of the skin from a clinical perspective. Lectures are coordinated with embryology, histology, physiology, biochemistry, pharmacology, microbiology, pathology, and dermatopathology.

**PM 6130 Reproductive System (6 credit hours, Numeric Score)**

This course presents the anatomy, embryology, and histology of both the female and male reproductive systems. The physiology, biochemistry, pathology, pharmacology, and microbiology of both reproductive systems are also discussed. In addition, the basic sciences disciplines present principles regarding the relationship between mother and fetus during pregnancy. Clinical lectures on obstetrics, gynecology, perinatology, and nutrition, and the problem of child abuse and the management of pregnancy are presented. Perspectives on human sexuality are also presented.

**PM 6140 Gastrointestinal System and Nutrition (6.5 credit hours, Numeric Score)**

This course presents various aspects of the gastrointestinal system, including its embryology and histology. The biochemistry, physiology, the influence of pharmacology, and the problem with microbiology are presented along with the clinical and pathological aspects of the system. The nutrition course is incorporated into this system.

**PM 6172 Emergency Medicine (1 credit hour)**

The course serves to integrate the didactic clinical training that students received during the first two years, using case-based presentation pedagogy to foster clinical problem solving. Topics covered include many frequently encountered emergency presentations including chest pain, difficulty breathing, endocrine and neurologic emergencies, cardiovascular complaints, infections, trauma, obstetric and gynecologic emergencies, abdominal pain, etc. Student also receive an introduction to EMS, triage, and mass casualty management.

**PM 6173 Geriatrics (1.5 credits, Numeric Score)**

This course is devoted to the special problems that can occur in the elderly. Disease and conditions learned during the systems are now explored in light of this population. Challenges of an aging population are explored.

**PM 6176 Pediatrics (2.5 credit hours, Numeric Score)**

This course is devoted to the special problems that can occur in the period between infancy to adolescence. Diseases and conditions learned during the systems are now explored in light if this population. Additionally, aspects specific to pediatrics are explored.

**PM 6180 Essentials of Clinical Medicine IV (3.5 credit hours, Numeric Score)**

Prerequisite: PM 6080. This course is a continuation of PM 6080. As part of this course, students will take the Clinical Performance Evaluation (CPE) in preparation for the Clinical Performance section of the NBPME that will be given prior to the completion of the Fourth Year. Students are required to pass the CPE in order to be promoted to the Clinical Training (Rotation) phase of the Curriculum.

**PM 6190 Podiatric Medicine, Surgery and Biomechanics IV (4.5 credit hours, Numeric Score)**

Continuation of PM 6090. This course includes a section on advanced concepts in podiatric medicine surgery and biomechanics.

**IPE 6100 Patient Centered Cases – An Interprofessional Approach IV (1 credit hours, Numeric Score)**

Continuation of IPE 6000.

**PM 7010 General/Family Medicine (10 credit hours, HON/P/F)**

This course provides the student with supervised clinical education in an outpatient setting and/or an inpatient hospital service where the student functions as an integral part of the healthcare team. Emphasis will focus on the student's gaining experience in diagnosis, clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management.

**PM 7020 Internal Medicine I (10 credit hours, HON/P/F)**

This course provides supervised clinical education in general internal medicine including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management.

**PM 7021 Internal Medicine II (10 credit hours, HON/P/F)**

Prerequisite: PM 7020. Continuation of PM 7020

**PM 7022 Internal Medicine III (10 credit hours, HON/P/F)**

This course provides supervised clinical education in general internal medicine and/or in an internal medicine sub-specialty such as gastroenterology, pulmonology, or cardiology. Expected competencies include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. In subsequent courses in this series, students are exposed to progressive involvement and independence in patient management.

**PM 7030 Surgery I (General/Vascular) (10 credit hours, HON/P/F)**

This course provides supervised clinical education in general surgery including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7050 Surgery Elective (Surgical Sub-Specialty) (10 credit hours, HON/P/F)**

This course provides supervised clinical education in one of the clinical disciplines including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7060 Podiatric Medicine, Surgery and Biomechanics/Orthopedics I (10 credit hours, HON/P/F)**

This course provides supervised clinical education in podiatric medicine, surgery and biomechanics/orthopedics. The student will be afforded progressive experiences in development of technical procedural skills in all phases of podiatric medicine surgery and biomechanics. Emphasis will be placed on development of clinical management, technical/procedural skills, patient education, and interpretation of diagnostic data, management plans and inter-professional communication.

**PM 7070 Pediatrics (15 credit hours, HON/P/F)**

This course provides supervised clinical education in pediatrics including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7080 Podiatric Medicine, Surgery and Biomechanics/Orthopedics II (10 credit hours, HON/P/F)**

Continuation of PM 7060.

**PM 7090 Podiatric Medicine, Surgery and Biomechanics/Orthopedics III (10 credit hours, HON/P/F)**

Continuation of PM 7080.

**PM 7510 Internal Medicine (10 credit hours, HON/P/F)**

This course provides supervised clinical education in family medicine, internal medicine, pediatrics, geriatrics, etc. Expected competencies include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7515 General Medicine Ward Sub-Internship (10-15 credit hours, HON/P/F)**

This course provides supervised clinical education in either family medicine, internal medicine, pediatrics, geriatrics, etc. Competencies are expected to include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7520 Internal Medicine IV (10-15 credit hours, HON/P/F)**

This course provides supervised clinical education in general internal medicine and/or in one of the internal medicine subspecialties such as gastroenterology, pulmonology, neurology, cardiology, infectious diseases or geriatrics, pediatrics including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7521 Internal Medicine V (10-15 credit hours, HON/P/F)**

This course provides supervised clinical education in general internal medicine and/or in one of the internal medicine subspecialties such as gastroenterology, pulmonology, neurology, cardiology, infectious diseases or geriatrics, pediatrics including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. Prerequisite: PM 7520

**PM 7530 Surgery II (10-15 credit hours, HON/P/F)**

This course provides supervised clinical education in general surgery or one of the surgical subspecialties such as ophthalmology, orthopaedic surgery, urology, cardiovascular surgery, vascular surgery, invasive radiology, plastic/hand surgery, or neurosurgery. Expected competencies include clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication. Prerequisite: PM 7030

**PM 7540 Emergency Medicine (10-15 credit hours, HON/P/F)**

This course provides supervised clinical education in emergency medicine including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans and inter-professional communication.

**PM 7550 Elective (5-15 credit hours; repeatable to a maximum of 70 credit hours, HON/P/F)**

This course provides supervised clinical education in one of the clinical disciplines including clinical management, technical and procedural skills, interpretation of diagnostic data, patient education, development of diagnostic and management plans, and inter-professional communication.

**PM 7560 Podiatric Medicine, Surgery and Biomechanics/Orthopedics IV (15 credit hours, HON/P/F)**

This course provides supervised clinical education in podiatric medicine, surgery and biomechanics/orthopedics. The student will be afforded advanced progressive experiences in development of technical procedural skills in all phases of podiatric medicine surgery and biomechanics. Emphasis will be placed on development of clinical management, technical/procedural skills, patient education, and interpretation of diagnostic data, management plans and inter-professional communication. Per completion of PM 7090 as a pre-requisite for this rotation.

**PM 7590 Podiatric Medicine, Surgery and Biomechanics/Orthopedics V (10 credit hours, HON/P/F)**

Continuation of PM 7560.

**PM 8055 Essentials of Clinical Medicine V (ECM-V) (3.5 credit hours HON/P/F)**

The Essentials of Clinical Medicine V course is taken during the PMS III year and serves as a review of, and assessment tool for basic knowledge. This program reviews and amplifies clinical material presented during years I and II. It also provides the opportunity for the student to obtain information and skills essential to rotations, residency, medical and podiatric medical practice. Topics include clinical, legal and ethical issues that are presented from a medical and podiatric medical perspective. Additionally, the course addresses special topics such as professionalism, cultural sensitivity, and alternative care. Throughout the course, the tools essential to becoming a competent podiatric physician and lifelong learner are emphasized. This course must be completed prior to becoming a PMS-IV student.

**PM 8555 Essentials of Clinical Medicine VI (ECM-V) (3.5 credit hours HON/P/F)**

The Essentials of Clinical Medicine V course builds upon the knowledge and skill learned during the three previous years at CPM. The goal is to help the student to successfully transition into post graduate resident training and podiatric practice. This is accomplished by enabling the student to apply general knowledge to specific clinical applications. In addition, ECM-VI emphasizes medical professionalism and helps the students sharpen skills that are vital to life-long learning. Information is presented through one or more modalities including online and/or on-campus sessions. Successful completion of ECM-VI is a requirement for graduation for students entering PMS4 year of training.

**ACADEMIC CALENDAR**  
**2010-11 Academic Year**

Monday, Jul. 5, 2010 Independence Day Observed	Friday, Dec. 17, 2010 Last Day of Fall Semester Classes (1st and 2nd years)
Wed.-Fri., Aug 3-6, 2010 Orientation	Monday, Dec. 20, 2010 Winter Recess Begins
Saturday, Aug. 7, 2010 Convocation/White Coat Ceremony	Monday, Jan. 3, 2011 Spring Semester Begins (1st & 2nd years)
Monday, Aug. 9, 2010 Classes Begin (1st and 2nd years)	Monday, Jan. 17, 2011 Martin Luther King Day Holiday - no classes
Monday, Sept. 6, 2010 Labor Day - no classes	Monday, Feb. 21, 2011 President's Day - no classes
Monday, Oct. 11, 2010 Columbus Day - no classes	Monday, March 21, 2011 Spring Vacation
Wednesday, Nov. 24, 2010 Thanksgiving Recess – 5 pm	Monday, March 28, 2011 Classes Resume
Monday, Nov. 29, 2010 Classes Resume (1st & 2nd years)	Thursday and Friday, May 19-20, 2011 Commencement

# **COLLEGE OF VETERINARY MEDICINE**

## **Doctor of Veterinary Medicine Program**

### **ACCREDITATION**

Colleges of Veterinary Medicine are accredited by the Council on Education of the American Veterinary Medical Association (AVMA-COE), 1931 N. Meacham Road, Suite 100, Schaumburg, Illinois 60173 (Telephone: 800-248-2862). The College of Veterinary Medicine at Western University of Health Sciences was granted full accreditation by the AVMA-COE in February, 2010.

### **MISSION STATEMENT**

The College of Veterinary Medicine is committed to serving society and animals through the preparation of students for the practice of veterinary medicine, veterinary public health, and/or veterinary research in an educational program based on self-directed learning, reverence for life and clinical education through strategic partnerships. Instruction and clinical opportunities are provided in a wide variety of domestic species, including food animal, equine, and companion animals. The College sustains a vibrant, diverse faculty by encouraging advancement through personal and professional development and research. This creates an environment for competent, caring, ethical professionals, where cooperative learning, public service, and scholarship can flourish in an arena of excellence.

### **THE DEGREE**

The Doctor of Veterinary Medicine degree is earned through the completion four years of professional study subsequent to completion of their undergraduate, pre-professional prerequisites at an accredited college or university. Graduates of this program are eligible to take national and state veterinary licensing examinations. Information on the North American Veterinary Licensing Examination is available at <http://www.nvbme.org/>. Information on obtaining a state license to practice veterinary medicine is available from each state's Veterinary Medical Board. In California, the Veterinary Medical Board is a division of the Department of Consumer Affairs, and is located at 1420 Howe Avenue, Suite 6, Sacramento CA 95825, 916-263-2610 (<http://www.vmb.ca.gov>). Graduates who pass state licensing examinations may perform all of the duties and responsibilities of a practicing veterinarian as defined by the respective state's Veterinary Medicine Practice Act.

### **DVM PROGRAM OUTCOMES**

- Western University of Health Sciences College of Veterinary Medicine prepares veterinarians competent in:
1. providing an accurate, comprehensive patient diagnosis through application of critical thinking (problem solving skills), appropriate use of clinical laboratory testing, and record management.
  2. providing comprehensive treatment planning with effective communication, client education and professional collaboration including patient referral when indicated.
  3. providing humane and compassionate patient care that includes anesthesia and pain control measures, and attention to obtaining and maintaining optimal patient welfare. Included in this is objectively considering the wishes and expectations of the clients and animal guardians.
  4. utilizing basic medicine and surgery skills, supported by life-long self-directed learning and skills acquisition, and effective case management that considers the ethical and moral choices to deliver optimal patient care.
  5. the delivery of emergency and intensive care case procedures required to deliver effective case management that considers the ethical and moral choices for optimal patient care.
  6. health promotion, disease prevention, biosecurity, zoonotic disease considerations, and issues pertaining to food and feed practice.
  7. the delivery of effective and empathetic client communications and upholding ethical and moral standards of practice.
  8. applying evidence provided through research furthering the practice of veterinary medicine.

## **ADMISSION POLICIES AND PROCEDURES**

The College of Veterinary Medicine at Western University accepts applications from all qualified candidates. Usually, more applications are received from qualified candidates than can be admitted. As a result, academic, personal and professional potential, and collaborative ability are considered in accepting students into each year's class. The College of Veterinary Medicine seeks to admit a diverse student population with demonstrated academic competency and commitment to serve the public and animal health care interests of the veterinary profession.

The College of Veterinary Medicine at Western University participates in the centralized application service of the American Association of Veterinary Medical Colleges (AAVMC). This service, called the Veterinary Medical College Application Service (VMCAS), can be accessed as follows: by mail at AAVMC, 1101 Vermont Avenue, NW Suite 710, Washington, DC 20005; Phone (202) 371-9195; VMCAS Student Line: 1-877-VMCAS-40 (1-877-862-2740); FAX: (202)842-0773, e-mail ([vmcas@aavmc.org](mailto:vmcas@aavmc.org)) or via the Internet (<http://www.aavmc.org/vmcas/vmcas.htm>)

### **Application Requirements**

The College of Veterinary Medicine Admissions Committee will consider applicants who have earned a grade of C or above on all prerequisite courses. Grades of "C-" (C minus) in any of the prerequisite courses are not accepted. Applicants also must maintain a minimum overall grade point average of 2.5 or higher in all pre-professional course work taken prior to application and matriculation. Prerequisite courses are subject to revision each year, and for the latest information, prospective students should consult the university web site at <http://www.westernu.edu>. Application procedures and materials are subject to revision each year, and the information below provides only general guidelines. Prospective applicants are directed to the VMCAS web site and the university web site after July 1 of each year to ascertain the application window that will end the following October 1 and the most accurate application requirements.

### **(1) Prerequisite Courses**

Prerequisite	Semester Units	Quarter Units
Organic Chemistry with lab	3	4
Biochemistry or Physiological Chemistry	3	4
Upper Division Biological & Life Sciences	9	12
Microbiology	3	4
Physiology	3	4
Genetics or Molecular Biology	3	4
General Physical with labs	6	8
Statistics or Calculus	3	4
English Composition	6	8
Public Speaking or Small Group Communication	3	4
Psychology or Sociology	3	4
Humanities/Social Sciences	9	12

Each required course must be no less than one academic quarter/semester in length (minimum of 3 semester or 4 quarter units per course). No remedial courses will be accepted. Honors courses are acceptable and are encouraged when offered by the institution. Prerequisite courses must be completed at a regionally accredited college or university in the U.S. (exceptions will be made on a case-by-case basis). Applicants with foreign course work, who wish to have course work completed outside the U.S. (including Canada) considered, must submit a course-by-course evaluation that has been performed by:

#### **World Education Services**

P.O. Box 745, Old Chelsea Station  
New York, NY 10113-0745  
212.966.6311  
[www.wes.org](http://www.wes.org)

#### **Josef Silny & Associates**

PO Box 248233  
Coral Gables, FL 33124  
(305) 666-0233  
[www.jsilny.com](http://www.jsilny.com)

**Educational Credential Evaluators, Inc.**

P.O. Box 514070

Milwaukee, WI 53203-3470

414.289.3400

[www.ece.org](http://www.ece.org)

**International Educational Research Foundation, Inc.**

P.O. Box 3665

Culver City, CA 90231-3665

310.258.9451

[www.i erf.org](http://www.i erf.org)

For each required course, the applicant must have received a grade of "C" (or its equivalent) or higher to count the course as meeting the admissions requirement. Required science courses specified here (Biochemistry, Biological Sciences, Microbiology, Nutrition, Genetics, and Statistics) must be completed satisfactorily no more than eight calendar years prior to the time the student would matriculate in the Western University-CVM. Applicants with required courses completed more than eight years prior to application may provide for consideration objective criteria that would demonstrate their current knowledge of the subject in question.

**(2) Test of English as a Foreign Language (TOEFL)**

TOEFL (including essay) is required for all applicants who are not U.S. citizens and for whom English is a second language. Applicants must attain a minimum score of 550 (paper-based exam) or 213 (computer-based exam). Official TOEFL scores are valid for 3 years, and valid scores must be submitted at the time of application. **EXCEPTION:** The TOEFL exam will be waived for students who are graduating with a confirmed baccalaureate or higher degree from an accredited United States institution of higher education at the time of application. Applicants must attain a minimum score of 550 (paper-based exam) or 213 (computer-based exam).

**(3) Standardized examinations**

Each applicant is required to take the Medical College Admissions Test (MCAT) or Graduate Records Examination (GRE) within five years of matriculation and must submit his/her scores to Western University-CVM for consideration in the admissions process.

**(4) Animal related experience**

The College requires that each applicant has worked in a regulated animal medical, farm animal production, public animal control, animal entertainment or animal research environment for no less than 500 hours. The nature of the work must go beyond volunteer effort and generate demands whereby a supervisor may speak to the applicant's work habits, interest in animal well-being and personal integrity.

**(5) Recommendations**

Three letters of recommendation are required from among the following: previous employers, supervisors of extended volunteer activities or academic personnel responsible for courses taken by the individual.

**(6) Optional Application Materials**

Within federal guidelines, the applicant may submit and/or the College may request additional information documenting a basis for reasonable consideration under the diversity goals of the College. Scientific publications, or significant academic papers prepared as part of a course work requirement with evaluations included, may be submitted by the applicant and reviewed by the Admissions Committee in assessing the abilities and experiences of the applicant.

**Student Selection Process**

The Western University Student Affairs/Admissions Office assists the College in the preparation, distribution and handling of all admissions-related materials, as well as in application processing. Applications are then forwarded to the College of Veterinary Medicine's Admissions Committee. This Committee considers each application using uniform criteria, including but not limited to: academic achievement, standardized test performance, animal experience, and letters of reference as well as any other supporting materials. The Admissions Committee recommends applicants for interview, and coordinates the interview process. Following the interview, the Admissions Committee makes recommendations to the Dean on applicant admission to the veterinary curriculum. The Dean of the College seeks to establish diversity in the student body and has the final

authority on admission decisions. Invitations to successful applicants shall originate in the Dean's Office, signed by the Dean. International applicants (persons who are not U.S. residents) will be considered for admission to the DVM program.

## **REGISTRATION**

First year students are required to register by the registration date specified in the University Calendar by the Registrar. Students in subsequent years must complete registration materials, including financial arrangements, prior to the dates specified in the Academic Calendar. Continued matriculation and graduation are subject to satisfactory completion of all academic requirements and payment of all outstanding debts to the University. The receipt of a final transcript from an undergraduate college and a physical examination with documentation of required immunizations are required of incoming students prior to registration. Also, all students must show proof of current health insurance coverage at the time of registration. This coverage must remain in effect throughout the academic year. If there is no proof of current coverage, a policy provided by the University will be made available. Attendance at Orientation Week is mandatory for all first-year veterinary students.

## **TUITION AND FEES**

By action of the Board of Trustees, the College of Veterinary Medicine tuition for the 2010-2011 academic year (subject to change) is \$42,010. For CVM applicants accepted at Western University, a tuition deposit of \$500 is payable before April 15<sup>th</sup> of the year in which the student begins matriculation. Upon matriculation, this \$500 is applied toward the total annual tuition. If an applicant fails to register, the tuition deposit is forfeited.

In addition to tuition, students are assessed a \$40 Student Body Fee in years one and two of the curriculum, and a \$20 Student Body Fee in years three and four of the curriculum. This fee supports student government activities and expenditures.

### **Other Fees and Expenses, Estimated**

Graduation Fee (assessed on candidates for graduation only)	\$200
Late Registration Fee, per day	\$ 30
Recommended Text Books, per year (estimate)	\$1,000
Required equipment, per year (laboratory coats, scrubs, coveralls, boots, stethoscopes, CD's) (estimate)	\$250
Required laptop computer	\$1,500 to \$2,000
Western University Parking Permit Fee (annual)	\$400
Lost Identification Badge Fee	\$ 10
Copy of Official Transcript	\$ 6
Rush Transcript (each), First Class Mail	\$ 21
Rush Transcript (each), Federal Express	\$ 25
Copy of Student File Material, per page	\$0.50

### **Laptop Computers**

Each veterinary student at Western University of Health Sciences is required to have a laptop computer with a CD-ROM drive that meets the specifications on the Western University web site at <http://www.westernu.edu/bin/veterinary/LaptopRequirements.pdf>. These specifications are subject to change. The College reserves the right to impose uniform requirements for computer technology, including the possible requirement of a specific model of laptop computer.

The laptops will be used for e-mail communication with classmates and faculty, for accessing computer- and server-based course information and instructional software, for searching online bibliographic databases and creating electronic bibliographies, and for participating in exercises in third/ fourth year courses. In addition, each student must have access to a printer. Computers will be needed by students on campus as well as at their local residences or when rotating in off-campus courses/rotations; therefore, laptop computers are required instead of desktop models. Students have assigned lockers in which to secure their laptops on campus. More information on required laptops is provided to prospective students at the time of on-campus interviews (February).

### **Clinical Rotations Expenses**

Most clinical courses/rotations will occur in southern California within a sixty-mile radius of the University campus. Any travel, food, housing or other expenses incurred by participating in either 3<sup>rd</sup> year, 4<sup>th</sup> year CORE,

or Selective Clinical Rotation course activities are the responsibility of the student. Lodging and limited travel assistance may be provided for certain third-year courses that require student travel beyond the 60 mile radius. In addition, students are required to return to campus several times during the clinical years for various educational experiences. Travel costs to attend required on-campus activities are the responsibility of the student.

### **Licensing Examination Fees**

Licensing examinations may be taken during the fourth year of the curriculum. Fees and application requirements are determined by national and state examination services, not by the CVM, and are the responsibility of the student. Western University CVM students may take the North American Veterinary Licensing Examination (NAVLE) during a four-week period in November/December or a two-week period in April of their 4<sup>th</sup> year. Application procedures and fees are described at <http://www.nvme.org>. The web site for the California Veterinary Medical Board is <http://www.vmb.ca.gov>.

## **ACADEMIC REQUIREMENTS**

### **Academic Advisement**

Students are assigned a faculty mentor upon entry. The academic mentor-student relationship can become one of the most valuable aspects of veterinary medical education. It provides an opportunity to develop sustained, individual contacts between faculty and students on both academic, professional, and personal levels. If the student or the faculty member does not find the relationship helpful, either is free to seek a change. Such changes are arranged through the Office of the Associate Dean for Academic Affairs.

### **Admissions Committee**

The Admissions Committee is responsible for managing the college admissions process. The committee works with personnel in the Western University Office of Student Affairs to coordinate preparation and dissemination of recruitment materials to prospective students and to plan and coordinate file reviews and interviews for applicants each year. The Committee recommends to the Dean the names of students acceptable for admission to the College. At the close of each admissions cycle, members of the Admissions Committee re-examine minimal requirements for admissions and consider recommendations for change that will enhance preparation and quality of applicants to the College.

### **Scholastic Standing Committee**

The Scholastic Standing Committee (SSC) is responsible for oversight of student progress in the curriculum. At the end of each academic semester, the Scholastic Standing Committee reports to the Faculty on scholastic standing of students in the professional curriculum and makes recommendation to the Faculty on scholastic standing issues and policy.

### **Attendance and Absences**

Attendance is required at all scheduled instructional periods, including PBL group meetings with facilitators, scheduled educational laboratories and experiences, and all clinical courses/rotations. Absence from instructional periods for any reason does not relieve the student from responsibility for the material covered during these periods. Students are required to be present for all scheduled examinations and cannot begin an examination more than 15 minutes after the scheduled starting time without permission from an Associate Dean or his/her designee. For a student to be allowed to take any examination at other than the scheduled time, approval must be received from the appropriate Year Director or his/her designee.

Absence from an examination due to unforeseen circumstances, including illness, should be reported to the Course Leader, Year Director, and the Office of the Associate Dean for Academic Affairs by telephone as soon as possible prior to or after the exam has been administered (909-469-5590). A written explanation of the absence (including documentation on physician letterhead in the case of illness) must be provided to the Associate Dean for Academic Affairs as soon as reasonably possible and no later than the next day the student is on campus. If a student misses an examination, the Associate Dean for Academic Affairs, in consultation with the Year Director(s) and/or Course Leader, will determine whether the absence is excused or unexcused. If the absence is excused, the student will be permitted to take a make-up examination, the nature and time of which will be determined at the discretion of the Course Leader. If the absence is unexcused, a score of zero will be recorded for that examination.

## **Examinations**

Examination schedules will be provided at the beginning of every course. Typically, an examination week is scheduled after every eight (8) weeks during the curriculum for the first three years of the curriculum (the college administration may change this schedule at its discretion). Students are required to be present for all scheduled examinations. In addition, unannounced examinations may occur during any portion of the curriculum.

## **Policy on Academic Dishonesty**

Honesty and integrity are among the most valued traits of a veterinarian, and each student is expected to assume personal responsibility for honesty and integrity. Academic dishonesty includes (but is not limited to) cheating, plagiarism, using unauthorized resources during examination(s), and signing another person's name to an attendance or examination document.

The CVM Faculty has adopted an Honor Code that guides students and defines expectations with regard to matters of professional behavior in the classroom, in the clinic, and outside the University. Students who observe suspected academic dishonesty need only identify the issue of concern and present what evidence they have for that concern. They are to report this to the examination proctor, a faculty member, or a college administrator rather than attempt a personal intervention. Persons making verbal allegation may later be required to submit a written report to the Dean or his/her designee. Failure to promptly report issues of concern as soon as reasonably possible (preferably in less than 24 hours) is considered behavior inconsistent with expected professional behavior and a serious ethical lapse.

Please see the **General Academic Policies and Procedures** section in the front portion of the Catalog for more information regarding matters of student conduct in general. The Dean may investigate the allegation and summarily make a decision on the matter or, if deemed appropriate, convene an Honor Court to investigate the allegation. The student suspected of dishonesty may provide evidence or witness testimony to the Honor Court. If a preponderance of the evidence presented to the Honor Court indicates that a violation of the Honor code has likely occurred, recommendations to the Dean may include, but are not limited to:

1. dismissal from the academic program,
2. suspension from the program for a designated period of time,
3. academic probation, the period to be recommended by the Honor Court, and/or
4. make-up examination.

While an alleged violation is being investigated by the university, the status of the students involved in the case will remain unchanged pending the outcome of the investigation. After receipt of the recommendation from the Honor Court to the Dean, the disposition of the incident will be conveyed to the involved student(s) by the Dean, in writing.

## **Grading Policies**

Official grades are turned in to the Registrar by the Office of the Dean of the College of Veterinary Medicine, at which time the online student records system, BanWeb, is updated. Grades may be viewed and unofficial transcripts are available on the BanWeb student records system throughout the academic year. For more information on how to access the BanWeb student records system, visit the Registrar's website at <http://www.westernu.edu/registrar>.

The College of Veterinary Medicine uses letter grades A through U and CR/NCR (credit/no credit) grades. Credit/No Credit courses are those designated by the faculty as required for promotion, but not assigned letter grades. The student must satisfy course requirements as defined by the course syllabus to receive credit. Course syllabi and instructor remarks at the beginning of each course inform students of academic accomplishment required for each grade.

Letter grades are reported according to the following values:

A (4.0)	Excellent
B (3.0)	Good
C (2.0)	Satisfactory
D (1.0)	Unsatisfactory
U (0.0)	Fail
CR/NCR (0)	Credit/No Credit
H (4.0)	Honors (4 <sup>th</sup> year rotations only)
PA (3.0)	Pass (4 <sup>th</sup> year rotations only)

Au (0)	Audit
I (0)	Incomplete
W (0)	Withdrawal

If a student does not complete an “I” grade within the following semester of receiving the “I” grade, the “I” will default back to a “U” grade.

A semester and a cumulative grade point average is calculated and posted on each student's transcript. Class ranking also is available upon request from the Registrar's Office.

### **Recording of Grades and Grade Change**

No grade will be changed unless the instructor certifies in writing to the Associate Dean for Academic Affairs and the Registrar that an error in computing or recording the grade occurred. For on-campus courses, students have a maximum of two weeks from the time examination results are electronically posted to bring any errors, irregularities in grading, or exam item/question challenges to the attention of the Course Leader. All recorded grades remain on the official transcript unless a clerical error is discovered.

For third year students, once the grade is posted in Banner, the student must contact the course director in person or by e-mail within one month of the posting if the student wishes to review the grading elements. All grade appeals must be completed by the end of the exam week following the posting of the course grade.

For fourth-year courses/rotations no grade will be changed after one month from the time the grade is recorded in the Office of the Registrar. Within the above-designated time, grade changes for clinical rotations will be considered only under the following circumstances:

1. when the Associate Dean for Academic Affairs receives a signed written statement from the clinical preceptor specifying that a clerical error has been made regarding a preceptor evaluation of the student, and that the purpose of the change is to correct that clerical error; or
2. when the clinical site preceptor to whom the student was assigned submits a signed written request to have their evaluation changed. The request must include justification for making the change.

All grade changes must have the approval of the Associate Dean for Academic Affairs. It is strongly recommended that students on clinical courses/rotations make every effort to discuss his/her evaluation(s) with the assigned clinical preceptor prior to leaving the clinical site.

### **Satisfactory Progress**

Students must maintain a semester and cumulative grade point average of C (2.0) on a yearly basis during all four years of the curriculum to be considered making satisfactory academic and professional progress. All courses with “I” grades must be successfully completed, and “D”, “U”, or “NCR” grades in any course must be satisfactorily repeated to a grade of “C”, “CR”, or “PA” prior to yearly promotion or graduation. If a student leaves a clinical rotation before it is finished without the permission of the Associate Dean for Academic Affairs, or is asked to leave a rotation by the Clinical Preceptor, a grade of “U” for that rotation will be assigned.

### **Promotion**

Promotion is defined as academic and professional progression from one academic year to the next. The Scholastic Standing Committee will recommend students to the Dean for promotion. A student will not be recommended for progression from one academic year to the next with an outstanding grade of “I”, “D”, “U”, or “NCR” in a required course, a semester GPA less than 2.0 for two consecutive semesters, or a cumulative GPA less than 2.0 at the end of the academic year. When considering a student for promotion, ethical, professional, and personal conduct will be taken into consideration (see **University Academic Policies** section). A student will be promoted provided that all academic, legal, and financial requirements of the University, as stated in the University Catalog, have been satisfied. The maximum time allowed for the completion of all academic requirements for the DVM degree is six (6) academic years.

### **Academic Probation**

Students may be placed on Academic Probation by the Associate Dean for Academic Affairs following recommendation by the Scholastic Standing Committee for any of the following reasons:

1. inadequate academic progress, including but not limited to earning in any required courses or rotations a grade less than “C” (2.0), “PA” or a grade of “NCR” (0),
2. a semester GPA of less than 2.0,

3. a pattern of unexcused absences from scheduled learning activities, or
4. unethical professional or personal conduct as defined in the University Catalog.

First-, second- and third-year students who are on probation must meet with their faculty mentor to monitor progress at least once a month. Fourth-year students who are on probation must contact their faculty mentor once a month. It is the student's responsibility to contact the faculty mentor to arrange these meetings or contacts. Students on academic probation must bring their cumulative GPA to greater than a C (2.0) average and/or satisfactorily remediate deficient coursework within two semesters of the imposition of academic probation, after which they may be removed from probation. If they do not meet these goals, they will be dismissed from the veterinary medicine curriculum. Students on academic probation are not permitted to hold leadership positions in co-curricular activities associated with the University and/or with professional associations.

If a student receives an "I", "D", "U", or "NCR" while on academic probation in a required course, regardless of the student's GPA, the student may be dismissed.

### **Remediation**

The educational objectives that underlie remedial teaching and evaluation are the same as the educational objectives that underlie regular courses in the curriculum. The academic progress of students who fail to meet the standards of a course, or who fail to attain a semester GPA of 2.0 or greater for any semester, or who have a cumulative GPA of less than 2.0 at the end of an academic year, will be reviewed by the Scholastic Standing Committee. Where deemed appropriate, this Committee, after consultation with the Course Leader, Year Director, and/or Associate Dean for Academic Affairs, may recommend one or more of the following remedial strategies:

1. the taking, and passing, of a comprehensive examination,
2. repeating of the course or clinical rotation, or
3. repeating of the academic year.

The grade(s) achieved in remediation of a course grade of "D," "U," or "NCR" will be the grade(s) recorded on the student's transcript, except that the highest grade a student may earn by options 1 or 2 (above) is a "C" or "CR". The grade achieved by remediation will be recorded on the transcript with a notation identifying the original grade. Grades earned during remediation of a course or clinical rotation will be critically reviewed by the Scholastic Standing Committee.

Decisions regarding remediation and dismissal will be made by the Dean of the College of Veterinary Medicine, based upon the recommendation of the Scholastic Standing Committee and the Associate Dean for Academic Affairs. The Committee will base its recommendation on the student's academic record and other considerations after consultation with the student's faculty mentor, Course Leader, Year Director, Associate Dean for Academic Affairs, and the student involved, as appropriate.

A student who is required to remediate a course grade of "D", "U", or "NCR" must be notified in writing by the Dean of the College of Veterinary Medicine at least 15 working days prior to the remediation date, or within 15 working days after the close of the academic year in which the student is presently enrolled, whichever comes first. Notification must either be sent by certified mail or hand-delivered to the student and must be acknowledged with the signatures of the Dean of the College of Veterinary Medicine or his/her designee and the student.

### **Dismissal from the Program**

The Dean of the College of Veterinary Medicine may require dismissal of a student from the veterinary curriculum for failure to meet standards of scholarship, attendance, or conduct. The Scholastic Standing Committee may recommend dismissal of a student for failing to meet standards of scholarship for:

1. earning a cumulative GPA of less than 2.0 at the end of the academic year,
2. failing more than one required course in the curriculum, including clinical rotations,
3. failing to successfully remediate any required course as determined by the Scholastic Standing Committee, and/or
4. receiving a "D", "U", or "NCR" while on academic probation in a required course, regardless of the student's GPA.

In addition, the Honor Court may recommend dismissal in matters regarding student misconduct (see **General University Academic Policies** section of this catalog for more information).

### **Readmission**

Students dismissed from the program for inadequate academic progress may apply to the Scholastic Standing Committee for reinstatement. All students readmitted after being dismissed will be subject to all curricular requirements in effect at the date of re-matriculation. Exceptions to these requirements may be granted by the Dean after consultation with the Associate Dean for Academic Affairs and/or appropriate members of the faculty. Failure to achieve these requirements will result in permanent dismissal from the program. All readmitted students will be placed on academic probation for the entire professional curriculum, and may be dismissed at any time due to unsatisfactory performance.

### **Graduation**

A student will be recommended for the degree Doctor of Veterinary Medicine at Western University provided he/she:

1. has completed all required courses in the four year curriculum with a cumulative GPA greater than or equal to 2.0,
2. has no outstanding grade of "I", "D", or "U", or a grade of "NCR" in any required or elective Credit/No Credit course,
3. has demonstrated appropriate ethical, professional, and personal conduct, as defined in the University Catalog, "General Academic Policies and Procedures" section, and
4. has complied with all the legal and financial requirements of the University as stated in the University Catalog and has paid all required fees.

Unless special permission has been granted by the President of the University, all students must participate in person in the commencement program at which the degree is conferred. If the President grants special permission to be excused from graduation, the graduate may be required to present himself or herself at a later date to the Dean of the College of Veterinary Medicine to receive the diploma and take the Veterinarian's Oath.

### **CURRICULUM**

Through the comparison of animal species, veterinary medicine uniquely bridges medicine, agriculture, and biology. The professional degree curriculum emphasizes the acquisition and development of skills, values, and attitudes as well as the acquisition of a core of veterinary knowledge. The curriculum and educational process is designed to initiate and promote lifelong learning in each professional degree candidate while instilling an appreciation of the breadth and scope of the profession's broad, diverse responsibilities and opportunities. It provides ample opportunities for each student to: 1) gain an understanding of the underlying basis of health and disease in a broad range of domestic species; 2) acquire fundamental clinical skills in a variety of species; and 3) develop the values, attitudes, and behaviors necessary to responsibly address the health and well-being of animals and the interests of individual clients as well as society.

Courses listed in this Catalog are subject to change. New courses and changes in existing course work are initiated by the faculty, reviewed and approved by the Curriculum Committee, the faculty, the Dean of the College of Veterinary Medicine, and the Provost/COO.

**REQUIRED PROFESSIONAL CURRICULUM OF WESTERN UNIVERSITY OF HEALTH SCIENCES  
COLLEGE OF VETERINARY MEDICINE DVM DEGREE**

<b>Year 1</b>	<b>1<sup>st</sup></b>		<b>Year 1</b>	<b>2nd</b>	
<b>Courses</b>	<b>Semester</b>	<b>Credits</b>	<b>Courses</b>	<b>Semester</b>	<b>Credits</b>
CVM 5000	Vet Basic/Med Sci	8	CVM 5100	Vet Basic/Med Sci	8
CVM 5020	Vet Basic/Med Sci	8	CVM 5120	Vet Basic/Med Sci	8
CVM 5030	Molecular/Cellular Bio	1	CVM 5130	Molecular/Cellular Bio	1
CVM 5040	Veterinary Issues	2	CVM 5140	Veterinary Issues	2
CVM 5060	Vet Clin Sci/Skills I	2	CVM 5160	Vet Clin Sci/Skills II	2
IPE 5000	Patient Cent. Cases I	<u>1</u>	IPE 5100	Patient Cent. Cases II	<u>1</u>
<b>Total: 22</b>			<b>Total: 22</b>		

<b>Year 2</b>	<b>3rd</b>		<b>Year 2</b>	<b>4th</b>	
<b>Courses</b>	<b>Semester</b>	<b>Credits</b>	<b>Courses</b>	<b>Semester</b>	<b>Credits</b>
CVM 6000	Vet Basic/Med Sci	8	CVM 6100	Vet Basic/Med Sci	8
CVM 6020	Vet Basic/Med Sci	8	CVM 6120	Vet Basic/Med Sci	8
CVM 6030	Molecular/Cellular Bio	1	CVM 6130	Molecular/Cellular Bio	1
CVM 6040	Veterinary Issues	2	CVM 6140	Veterinary Issues	2
CVM 6060	Vet Clin Sci/Skills III	2	CVM 6160	Vet Clin Sci/Skills IV	2
IPE 6000	Patient Cent. Cases II	<u>1</u>	IPE 6100	Patient Cent. Cases III	<u>1</u>
<b>Total: 22</b>			<b>Total: 22</b>		

<b>Year 3</b>				<b>Credits</b>
<b>Courses</b>	<b>5<sup>th</sup> and 6<sup>th</sup> Semesters</b>			
CVM 7000	Introduction to Practice Management			1
CVM 7010	Small Animal Mixed Practice I			2
CVM 7011	Small Animal Mixed Practice II			2
CVN 7012	Small Animal Mixed Practice III			2
CVM 7013	Small Animal Mixed Practice IV			2
CVM 7020-7021	Livestock Mixed Practice (2)			4
CVM 7025	Population Health and Production			2
CVM 7030-7031	Equine Practice (2)			4
CVM 7035	Surgery/Anesthesia			2
CVM 7040	Diagnostic Laboratory and Pathology			2
CVM 7045	Laboratory Animal and Research			2
CVM 7050	Zoo Animal and Wildlife			2
CVM 7055	Veterinary Public Health and Human-Animal Interactions			2
CVM 7060	Food and Feed Safety			2
CVM 7065	USDA Accreditation, Foreign Animal			
	Diseases, and International Veterinary Medicine			2
CVM 7090	Third Year Student Presentation			1
<b>Total: 34</b>				

<b>Year 4</b>				<b>Credits</b>
<b>Courses</b>	<b>7<sup>th</sup> and 8<sup>th</sup> Semester</b>			
CVM 7510	Core Internal Medicine			4
CVM 7520	Core Surgery			4
CVM 7530-7599	Selective Clinical Rotations (6)			24
CVM 8090	Independent Study			(2-8)

**Total: 32 / (40)**

**SUMMARY**

<b>Year</b>	<b>Credits</b>	<b>Instruction</b>	<b>Exams</b>	<b>Other</b>
YEAR I	42	32 wks	4 wks	1 wk orientation
YEAR II	42	32 wks	4 wks	-----
YEAR III	34	33 wks	4 wks	-----

YEAR IV	<u>32 (40)</u>	<u>32 wks</u>	<u>2 wks</u>	-----
<b>Totals</b>	<b>150 (158)</b>	<b>129 weeks</b>	<b>14 weeks</b>	

## COURSE DESCRIPTIONS

### **CVM 5000 Veterinary Basic and Medical Sciences - PBL Module I (8 credits)**

The Veterinary Basic and Medical Sciences Courses promote student-centered, self-directed learning of the fundamental concepts in the primary basic medical sciences (anatomy, biochemistry, behavior, epidemiology, genetics, immunology, microbiology, nutrition, parasitology, pathology, pharmacology, physiology and toxicology). A Problem-Based Learning (PBL) environment using simulated/virtual patients with specific diseases provides the context for learning. Students are randomly assigned to groups of 6 to 8 students with a faculty facilitator. Facilitators guide the students through the PBL process. Student problem-solve by defining patient problems, evaluating facts/data, exploring ideas/hypotheses, and considering action plans/action items that will further define or resolve patient problems. PBL sessions are dynamic, interactive meetings that also enhance students' communication and collaboration skills. There are eight modules that the PBL cases are organized within. Each module is based on a body-systems approach to the integration of the basic medical sciences. Correlative laboratories and learning activities are provided to enhance the learning experience.

### **CVM 5020 Veterinary Basic and Medical Sciences – PBL Module II (8 credits)**

Taken concurrently with CVM 5000, focusing on other veterinary problems.

### **CVM 5030 Molecular and Cellular Biology I (1 credit)**

These courses (continuing as CVM 5130, CVM 6030, and CVM 6130) provide correlative lectures and activities to the Veterinary Basic and Medical Sciences cases, focusing on the central biological principles and mechanisms that underlie animal health and disease at the molecular and cellular levels, and their influence on organ, organism and population levels.

### **CVM 5040 Veterinary Issues I (2 credits)**

This course introduces the student to significant issues facing the veterinary profession, which may include issues on public policy, biomedical ethics, legislation affecting animals or the veterinary profession, animal welfare, public health, and veterinary career opportunities. The format includes invited lectures, small group discussions and assigned readings and projects. This and subsequent courses include material on the California Veterinary Medical Practice Act.

### **CVM 5060 Veterinary Clinical Sciences and Clinical Skills I (2 credits, CR/NCR)**

This course provides learning activities that lead to functional competence in basic veterinary clinical skills and common clinical procedures used in veterinary medicine. The course series CVM 5060, 5160, 6060, and 6160 will be administered concurrently with the PBL courses during the first four semesters of the DVM curriculum, and activities will be pertinent to the PBL problem in session, when appropriate. Various instructional arenas will be employed to accomplish these required skills: these include, but are not limited to, the Multidisciplinary Classroom; Hill's Wellness Center and Banfield, the Pet Hospital (enrolled wellness care); the Veterinary Ambulatory Community Service (VACS) vehicle; Cal Poly University- Pomona Animal Units; and various ambulatory experiences.

### **IPE 5000 Patient Centered Cases I– An Interprofessional Approach (1 credit)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

### **CVM 5100 Veterinary Basic and Medical Sciences - PBL Module III (8 credits)**

Continuation of CVM 5000 and 5020. Prerequisite: successful completion with grades of "C" or better in these prior courses in order to enroll for credit.

### **CVM 5120 Veterinary Basic and Medical Sciences – PBL Module IV (8 credits)**

Taken concurrently with CVM 5100, focusing on other veterinary problems.

**CVM 5130 Molecular and Cellular Biology II (1 credit)**

Continuation of CVM 5030.

**CVM 5140 Veterinary Issues II (2 credits)**

Continuation of CVM 5040.

**CVM 5160 Veterinary Clinical Sciences and Clinical Skills II (2 credits, CR/NCR)**

Continuation of DVM 5060.

**IPE 5100 Patient Centered Cases II– An Interprofessional Approach (1 credit)**

This course is a required university seminar for all first year health professional students. This course prepares students to practice health care services through a team approach. Working in small interprofessional teams, students will explore cases representing conditions across the life span. The cases will integrate elements common to all professionals such as ethical, behavioral, social and psychological issues. This course is a graduate requirement for all health professional programs.

**CVM 6000 Veterinary Basic and Medical Sciences – PBL Module V (8 credits)**

Continuation of CVM 5100 and 5120.

**CVM 6020 Veterinary Basic and Medical Sciences – PBL Module VI (8 credits)**

Taken concurrently with CVM 6000, focusing on other veterinary problems.

**CVM 6030 Molecular and Cellular Biology III (1 credit)**

Continuation of CVM 5130.

**CVM 6040 Veterinary Issues III (2 credits)**

Continuation of CVM 5140.

**CVM 6060 Veterinary Clinical Sciences and Clinical Skills III (2 credits, CR/NCR)**

Continuation of DVM 5160.

**CVM 6090 Directed Studies (1 to 12 credits, CR/NCR)**

Students are assigned to this course by the Dean or Associate Dean for Academic Affairs to augment identified topics/disciplines in Phase I of the DVM curriculum. The course may serve to establish qualification for further progress in the curriculum for the DVM degree. Students may be required to repeat more than one offering of this course. The Course Director will create a syllabus tailored to individual participants as necessary to augment specific topics/disciplines. For each specific topic/discipline, the student will be provided with written instructions, prescribed learning activities, and explanation of methods and standards for evaluation of student performance. Credits earned in the course do not count toward the total credits required for graduation. The course may be repeated. Prerequisite: Permission of Dean or Associate Dean for Academic Affairs.

**IPE 6000 Patient Centered Cases – An Interprofessional Approach III (1 credit)**

Continuation of IPE 5100.

**CVM 6100 Veterinary Basic and Medical Sciences – PBL Module VII (8 credits)**

Continuation of CVM 6000 and 6020.

**CVM 6120 Veterinary Basic and Medical Sciences – PBL Module VIII (8 credits)**

Taken concurrently with CVM 6100, focusing on other veterinary problems.

**CVM 6130 Molecular and Cellular Biology IV (1 credit)**

Continuation of CVM 6030.

**CVM 6140 Veterinary Issues IV (2 credits)**

Continuation of CVM 6040.

**CVM 6160 Veterinary Clinical Sciences and Clinical Skills IV (2 credits, CR/NCR)**

Not open for students with credit for DVM 5050. Continuation of DVM 6060.

**IPE 6100 Patient Centered Cases – An Interprofessional Approach IV (1 credit)**

Continuation of IPE 6000.

**CVM 7000 Introduction to Practice Management (1 credit)**

This course is an on-campus orientation to practice management, practice economics, and career and personal development. The course focuses on aspects of modern veterinary practice and life skills management, including but not limited to: preparation of contemporary medical records (emphasis placed on Problem-Oriented Veterinary Medical Records – POVMR), how to run a veterinary practice as a business, time management, team communications skills, contract law, compensation and benefits in employment contracts, personal budgets and tax issues, negotiation skills, and establishing fee schedules.

**CVM 7010 Small Animal Medicine I (2 credits)**

Supervised clinical education in the academic and practical aspects of small animal (canine, feline, pet birds, reptiles) medicine and surgery carried out in carefully selected, high quality and high volume private practices. Students see a wide variety of cases and directly manage medical and surgical examinations, diagnosis and management. Students are active participants in the diagnostic and therapeutic management of patients, and, as such, perform physical diagnosis and actively manage or participate in diagnostic problem-oriented decision making. Students have the opportunity to observe clinicians as role models and become familiar with how clinicians apportion their time spent with clients, staff and other hospital matters. Students also consult with hospital managers to learn issues including records, inventories, and client billing. One of these four Small Animal Medicine (CVM 7010, CVM 7011, or CVM 1012) courses is an emergency medicine practice.

**CVM 7011 Small Animal Medicine II (2 credits)**

This course consists of supervised clinical education in the diagnosis, treatment planning and administration of therapeutics in companion animals admitted to the “Banfield Veterinary Clinical Center” on the campus of Western University of Health Sciences. Students have primary responsibility for the pre-procedural evaluation of and client education for adopted and client-owned animals. Students receive, examine, diagnose and treat adoptable patients from local rescue groups and other sources. Animals deemed acceptable surgical risks are provided to the surgery/anesthesia course (CVM 7035) for surgical sterilization or other surgery as indicated. Animals requiring additional medical management are treated accordingly.

**CVM 7012 Small Animal Medicine III (2 credits)**

Continuation of CVM 7011.

**CVM 7013 Small Animal Medicine IV (2 credits)**

Continuation of CVM 7012.

**CVM 7020 Livestock I - Dairy (2 credits)**

The goal of this course is to expose students to the practice of food animal medicine with specific focus on dairy production systems. Students may also be afforded the opportunity to be active participants in the diagnostic and therapeutic management of individual animal patients, including physical diagnosis, patient care and therapeutic problem-oriented decision-making. Emphases will be on herd health preventive programs, population medicine, record analysis, facility evaluation and animal welfare issues. While in this clinical setting, students are expected to continue building knowledge in the basic sciences through self-directed study, while developing an understanding of the clinical sciences through their experiences.

**CVM 7021 Livestock II - Meat & Fiber (2 credits)**

The goal of this course is to educate students about production systems involved in the rearing of beef cattle, sheep and swine, and the practice of food animal medicine and surgery. Major emphases will be on herd health preventive programs, population medicine, record analysis, facility evaluation and animal welfare issues. The curriculum will also focus on the students' active participation in individual animal medicine in the diagnostic and therapeutic management of patients including physical diagnosis, patient care and therapeutic problem-

oriented decision-making opportunities. Core curricular competencies related to reproductive management and evaluation, surgical and obstetric techniques may be addressed. Students are expected to continue building basic science knowledge in a clinical setting and develop an understanding of clinical sciences through clinical experiences and self-directed study.

#### **CVM 7025 Population Health & Production (2 credits)**

This course will be administered by on-campus Western University faculty and will include student derived off-campus field trips. On-campus activities will involve in depth discussions of population health and production topics including, but not limited to: biosecurity, preventive medicine programs, disease monitoring and surveillance, disease eradication and/or control in a population, evaluation and application of diagnostic tests in a herd, production record analysis as a diagnostic tool, management related health issues in populations, disease dynamics in a population, disease outbreak investigation, cost/benefit analysis of disease interventions, and timely topics or current events impacting population health and production. Each student will prepare a defensible proposal for a preventive medicine or herd health program in an animal population of their choice. These populations could include a livestock herd or flock, a stable, a kennel, a cattery, an animal shelter, a pet store, a zoo, an aquarium, etc. Students will present their proposals in written format to faculty for critical evaluation.

#### **CVM 7030 Equine Practice I (2 credits)**

This third year course provides supervised clinical education in hospital-based equine care. The students will have an opportunity to work along-side high quality, community-based equine clinicians. The students will be active participants in the diagnostic and therapeutic management of equine patients and continue to develop problem-oriented decision processes. The students will develop skills in the management of primary care patients, medical, surgical, and emergency issues as well as gaining exposure to the economics of the equine practice.

#### **CVM 7031 Equine Practice II (2 credits)**

This third year course provides supervised clinical education in ambulatory-based equine practice. The students will have the opportunity to work along-side high quality, community-based equine clinicians. The students are active participants in the diagnostic and therapeutic management of the patient, and will continue to develop problem-oriented decision making skills directed toward the care of the patient. These students will assume progressive responsibility in the management of primary care patients, preventive care programs, and emergencies that occur in practice as well as gaining exposure to the economics of equine practice.

#### **CVM 7035 Surgery/Anesthesia (2 credits)**

This is a clinical experience supervised by Western University faculty in the Banfield Veterinary Clinical Center on the campus of Western University of Health Sciences, the Upland Shelter or other facilities as needed. Students are responsible for anesthesia, surgical procedures (such as sterilization), peri-operative care and client education for adopted and client-owned animals. Surgical and anesthetic experience will be gained through participation in ovariohysterectomies and/or castrations during the course. Additional surgical procedures will be performed if indicated.

#### **CVM 7040 Diagnostic Laboratory & Pathology (2 credits)**

This course emphasizes the efficient and effective use of laboratory services in veterinary medicine. This course includes aspects of diagnostic clinical pathology, anatomical pathology, parasitology, and microbiology (bacteriology and virology). Specimens from a variety of species are used as they are routinely processed in a veterinary diagnostic laboratory. Particular emphasis is placed on the practical applications of gross pathology and histopathology as an aid to assist general veterinary practitioners and animal owners in the identification of disease processes. Emphasis is placed on the proper collection and submission of clinical specimens from sick and deceased animals. The interpretation of laboratory test results are reviewed and discussed. In this course, students will acquire practice experience/skills in techniques used for an effective necropsy, proper examination of specific organs, and identification of lesions and postmortem changes. Students will become familiar with basic principles of tissue preservation and processing for histopathology and the recognition and interpretation of microscopic findings.

**CVM 7045 Laboratory Animal & Research (2 credits)**

This course provides an introduction to laboratory animal veterinary medical practice. Primary laboratory animal species are identified as rodents, ferrets, rabbits, and non-human primates. Students are expected to understand individual and population based medical aspects for these species. This includes basic husbandry, biomet hodology (handling, restraint, injection sites and diagnostic sample collection), assessment of animal well-being and major diseases (etiology, pathogenesis, diagnosis, treatment, health surveillance methods, prevention and zoonotic risks). Animal facility management relating to animal care, biosecurity, occupational health and safety will be addressed. Students will become familiar with local, state, and Federal regulations governing research animal care and use in order to understand the critical role the veterinarian plays in ensuring regulatory compliance.

**CVM 7050 Zoo Animal & Wildlife (2 credits)**

This course provides an introduction to veterinary practice in the field of zoological and wildlife medicine and surgery through participation in the daily activities of the veterinary staff. Students will acquire basic knowledge in a variety of clinical, surgical, and managerial skills. Emphasis will be placed on management (husbandry), transport, handling, restraint, capture, anesthesia, internal medicine, emergency and critical care, necropsy techniques and appropriate specimen collection in a variety of zoo animals. Students are expected to dedicate a portion of their time to student-centered learning activities determined by the group of students attending the course. In addition to seeing clinical cases, sessions with the course director and/or a clinical veterinarian are set aside to discuss anatomy/physiology/husbandry of non-domestic animals, journal discussion, Zoo ethics, and if time is available, the students will have an introduction to the management of zoos and the conservation efforts of zoos. Students are expected and highly encouraged to actively participate in the diagnostic and therapeutic problem-oriented decision-making of each particular case. Issues pertaining to the conservation of wildlife may be discussed depending upon the students' interest and staff availability. Students are expected to work in groups and actively apply problem-based learning (PBL) techniques to every case they encounter.

**CVM 7055 Veterinary Public Health and Human-Animal Interactions (2 credits)**

This course will introduce the student to how veterinarians function as public health professionals. The course will build on concepts introduced in Veterinary Basic Sciences but it will challenge students to delve more deeply into the arena of Veterinary Public Health. Students will develop and understanding of the public health system in the US. They will be introduced to major zoonoses that impact human health and common methods used to diagnose, prevent and control these diseases. Other topics will include occupational health risks to people working with animals, the role of veterinarians in disaster and bioterrorism preparedness, and the concepts of emerging and re-emerging diseases. Visits to Veterinary Public Health facilities are included. On-campus activities will consist of a mix of student-centered learning activities, group discussions, presentations, written assignments and presentation by content experts.

**CVM 7060 Food & Feed Safety (2 credits)**

The primary aim of this course is to provide students with the basic knowledge regarding the role of veterinary medicine in the production of safe foods of animal origin (meat, dairy products, and eggs) and safe feeds for companion animals, poultry, livestock, and other species. The continuum from pre-harvest through post-harvest food and feed safety will be covered with emphasis on the physical, chemical and biological aspects of food safety. Principles of cleaning, disinfection, sterilization and radiation as it applies to food production will also be discussed. Students should understand the concepts of developing a Hazard Analysis Critical Control Points (HACCP) program at both the pre-harvest and post-harvest stages.

**CVM 7065 USDA Accreditation, Foreign Animal Diseases & International Veterinary Medicine (2 credits)**

The goal of this course is to educate veterinary students on foreign animal diseases and global health issues so that they understand their roles and responsibilities as veterinarians in the USA, understand the global impact of foreign animal and zoonotic diseases and contribute to their control and prevention. This course will include three components: Foreign Animals Diseases, International Veterinary Medicine and USDA Accreditation. Students will gain knowledge of foreign animal diseases that are reportable in the US, including Office International des Epizooties (OIE) reportable diseases as well as the Centers for Disease Control and Prevention's Category A, B, C Bioterrorism Agents/Diseases and other important high consequence livestock

pathogens and toxins. The role of USDA in international activities and other national and international animal and public health organizations, including United Nations (UN) organizations such as Food and Agriculture Organization (FAO) and the World Health Organization (WHO), as well as the OIE, will be discussed. Students will meet with representatives from both the area office of USDA-APHIS and the California Department of Food and Agriculture Animal Health and Food Safety Service to review their professional, legal and ethical responsibilities after becoming an accredited veterinarian.

**CVM 7090 Third Year Student Presentation (1 credit)**

The goal of this course is to give the student the responsibility and opportunity to select, study, and present a topic of interest or original research. The topics must be explored extensively in regards to both the clinical and pre-clinical sciences and include pathophysiologic, pharmacologic, cellular and genetic basis, etc. Students are expected to conduct an extensive and exhaustive literature review, critically appraise relevant publications and utilize the dictums of evidence-based medicine in preparing the presentation. Presentations will be evaluated by the faculty using formal criteria.

**CVM 7510 Core Veterinary Internal Medicine Rotation (4 credits, Graded H/PA/U)**

Supervised clinical instruction occurs in selected, high-quality specialty internal medicine practices. Students participate in the practice of veterinary internal medicine, including diagnosis, management and treatment of diseases. Students submit SOAPS and participate in weekly rounds-type activities with faculty and classmates also participating in the Core Internal Medicine rotation. Not open for credit for students with credit for CVM 7515.

**CVM 7515 Core Food Animal Medicine Rotation (4 credits, Graded H/PA/U)**

This required clinical rotation will provide the fourth year veterinary student interested in Food Supply Veterinary Medicine (FSVM) an opportunity to investigate, analyze and solve herd level production problems. Supervised by ACVIM, ACVPM or ACT certified veterinarians, or DVM/MBA qualified practitioners, students will participate in the practice of FSVM, including the diagnosis and management of food animal cases and weekly herd reports. Daily SOAPS are required and include the thought processes utilized in making recommendations and a proposed plan for change that would correct and/or alleviate the problems. Although all food and fiber species are covered in this course, the emphasis will be on dairy production medicine. Not open for credit for students with credit for CVM 7510.

**CVM 7520 Core Surgery Rotation (4 credits, Graded H/PA/U)**

Supervised clinical instruction occurs in selected, high-quality specialty surgery practices. Students participate in the practice of veterinary surgery, including diagnosis, management and treatment of diseases. Students submit medical records and surgery reports as well as participate in weekly rounds-type activities with faculty and classmates also participating in the Core Surgery rotation.

**CVM 7530 Selective Alternative Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation is designed to provide a clinical experience in the application of alternative medicine practices, including alternative, complementary and homeopathic medicine, in managing animal health. Students will gain experience in both the clinical application and scientific basis for alternative approaches to medical and surgical management of veterinary patients. Under direct supervision of an alternative medicine practitioner, students will be given responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7531 Selective Anatomic Pathology Rotation (4 credits, Graded H/PA/U)**

The rotation provides students with hands-on experience in diagnostic pathology of multiple species, with an opportunity to perform necropsies, review pathology submission forms, review and write pathology reports (description and diagnosis) and request ancillary tests. Students will also have an opportunity to follow up on the histopathology of assigned cases, and to look into histopathology of submitted surgical materials (biopsies) if available. Depending on a student's interest and availability, the rotation may also include some clinical pathology experience. These activities will be performed under the supervision of pathologists and pathology residents. Repeatable to a maximum of 8 credits.

**CVM 7532 Selective Ancillary Diagnostics in Medicine and Pathology Rotation (4 credits, Graded H/PA/U)**

The rotation provides students with hands-on experience in ancillary diagnostic methods available to clinicians and pathologists. This rotation may include some or all of the following: clinical pathology (hematology, cytology, clinical chemistry and urinalysis), microbiology (bacteriology, virology with immunology, and mycology), toxicology and parasitology. It will provide an opportunity to review the appropriate submission forms and gain experience in available tests and methods for isolation/identification of agents (also, antibodies and histopathological changes) including specimen handling and processing, data collection and evaluation with assessment of their role in final diagnosis. Students will also have an opportunity to discuss and follow up on their diagnostic findings. These activities will be performed under the supervision of pathologists, expert diagnosticians and/or residents. Repeatable to a maximum of 8 credits.

**CVM 7533 Selective Anesthesia Rotation (4 credits, Graded H/PA/U)**

This rotation is designed to provide clinical experience in the use of anesthetics in small companion animals, horses, and/or food animals. The student will develop an understanding of the selection, dosage, and administration of anesthetic drugs and other life supportive therapy. Under direct supervision of the anesthesia team, students will ideally be given responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7534 Selective Aquatic Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation is designed to provide a clinical experience focused on the health and management of freshwater and/or marine species, including diagnosis and treatment of common diseases and the pathology associated with them. Under direct supervision of an aquatic animal medicine veterinarian, students will be given responsibility for the management of individual and population cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7535 Selective Avian Practice Rotation (4 credits, Graded H/PA/U)**

This rotation is designed to provide a clinical experience focused on the practice of veterinary medicine on avian species, including pet birds and non-agricultural poultry. Students will develop an understanding of the diagnosis and treatment of common and zoonotic diseases and the nutritional management of pet birds and poultry. Under direct supervision of an avian medicine veterinarian, students will ideally be given responsibility for the management of individual and population cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7536 Selective Beef Cattle Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides students the opportunities to gain experience in cow/calf, feedlot and/or stocker health management. Students will become familiar with common diseases of beef cattle and the epidemiology, diagnosis, treatment, prevention and control of those diseases in individual animals and cattle populations. Along with gaining an understanding of cattle management practices related to housing, feeding, marketing and culling, students will become familiar with the structure and organization of the beef industry. Under direct supervision of a beef cattle practitioner, students will be given responsibility for the management of individual and population cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7537 Selective Behavior Rotation (4 credits, Graded H/PA/U)**

This rotation provides an opportunity to study basic principles of animal behavior (ethology, psychology, and neuroscience) and their application in clinical, shelter and/or house call veterinary practices. Under the direct supervision of a veterinary behaviorist, students will have an opportunity to learn how to take behavioral histories, identify, assess and treat common behavioral problems in companion animals in clinical settings. The degree to which students will actively participate in the interviewing, assessment, and interactions with the patient and client and decision making processes regarding treatment will vary with the student, practice, and type of problem. Rotations associated with shelters or rescue agencies will have opportunities to become familiar with behavioral evaluations and treatment of animals in such facilities. Repeatable to a maximum of 8 credits.

**CVM 7538 Selective Camelid Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides opportunities to learn diagnosis, treatment, prevention and control common diseases in camelids. The student will develop competence in health management and fiber production topics at both the individual animal and herd level. Under direct supervision of a camelid practitioner, students will ideally be given responsibility for the management of individual and population cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7539 Selective Canine & Feline Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with the opportunity to participate in the diagnosis and treatment of common diseases and conditions seen in contemporary canine and feline veterinary medicine. Under the direct supervision of board certified canine and feline practitioner, students will be responsible for the management of individual cases and participate in decision making and clinical reasoning regarding their patients. Procedures students may experience include radiology, ultrasonography, endoscopy, clinical pathology, fluid therapy, electrocardiology, dentistry, and surgery. Students will be given responsibility for the management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7540 Selective Cardiology Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with the opportunity to learn the presenting signs, historical findings, breed predilections, methods of diagnosis, and medical and surgical interventions for the most commonly seen cardio respiratory conditions. Exposure to diagnostics, including cardiovascular physical examination, electrocardiography, radiography, and echocardiography is expected. Under direct supervision of a veterinary cardiologist, students will ideally be given responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7541 Selective Dairy Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides students the opportunities to gain experience in dairy health management. Students will become familiar with the common problems of dairy cattle encountered in dairy practice including infectious disease, metabolic disorders and management-related syndromes. The student will gain an understanding of, and will experience the techniques involved with, the epidemiology, diagnosis, treatment, prevention and control of these diseases/disorders in individual animals and cattle populations. Students will be exposed to, and become familiar with, the structure and organization of the dairy industry, common dairy management practices, the predominant housing systems, accepted feed delivery systems, marketing channels and culling practices. Under direct supervision of a dairy practitioner, students will be given responsibility for management of individual animal cases and are encouraged to participate in the management and consultation practices of herd health. Repeatable to a maximum of 8 credits.

**CVM 7542 Selective Dentistry Rotation (4 credits, Graded H/PA/U)**

This rotation provides students the opportunity to develop clinical expertise in diagnosis, management, medical treatment, and surgical techniques commonly utilized in veterinary dentistry. Under the direct supervision of a veterinary dental specialist, students will be engaged in exchange of theoretical knowledge with the specialist via consultations and conversations, diagnosing congenital oral problems, taking and interpreting dental radiographs, working up oral cases, and collaborating with the dentist in client education regarding oral preventive medicine of common oral and dental diseases of domestic animals. Students will be given responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7543 Selective Dermatology Rotation (4 credits, Graded H/PA/U)**

This rotation enables the student to develop, expand and apply knowledge of dermatology, and provides clinical experience in veterinary dermatology. Students will develop competency in the diagnosis, treatment, and prevention of a range of dermatologic diseases from a variety of pathogenic and etiologic categories. Under direct supervision of a dermatology specialist, students will be given responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7544 Selective Emergency Medicine & Critical Care Rotation (4 credits, Graded H/PA/U)**

This rotation exposes the student to the high standards of practice in veterinary emergency and critical care. The student will have the opportunity to develop knowledge and skills relating to the diagnosis, management, therapy, prevention and control of animal diseases requiring emergency or critical care management. This rotation provides the opportunity to develop skills required in the emergency and critical care setting. Under the direct supervision of an emergency and critical care veterinarian, students will be given responsibility for case management, development of decision making processes and clinical reasoning for individual cases. Repeatable to a maximum of 8 credits.

**CVM 7545 Selective Epidemiology Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with practice in the application of epidemiologic principles in the practice of veterinary medicine and/or public health. Students may be involved in planning strategies for disease prevention, disease monitoring and surveillance, analysis of population data, outbreak investigation, observational research or other aspects of clinical epidemiology. Students are encouraged to participate in any decision making processes and contribute positively in hands-on projects and activities. Repeatable to a maximum of 8 credits.

**CVM 7546 Selective Equine Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with an opportunity to participate in the diagnosis, management and treatment of common diseases and conditions seen in contemporary equine medicine. Equine practice settings may include preventive and general medicine/surgery procedures including radiology, ultrasonography, endoscopy, lameness evaluation, dentistry, and reproductive services. Students may experience the practice of equine medicine and surgery in both ambulatory and in-house settings. Under the direct supervision of an equine practitioner, students will be given guided responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7547 Selective Exotics Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides practical experience in the diagnosis, treatment and prevention of disease in exotic pets (avian, amphibians, reptiles, rodents, lagomorphs, other small mammals and pet fish). Under direct supervision of an exotics practitioner, students will ideally be given responsibility for the management of individual cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7548 Selective Feline Practice Rotation (4 credits, Graded H/PA/U)**

This rotation, under the supervision of a board certified feline practitioner, helps the student gain familiarity with the most common feline medical and surgical cases, and the commonly associated clinical procedures. The student will be exposed to the ethical, legal, and financial aspects of a feline practice. Students will gain exposure to a variety of diagnostic techniques and modalities including radiology, ultrasonography, endoscopy, clinical pathology, electrocardiology, fluid therapy, dentistry, and surgery. Students will be given responsibility for the management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7549 Selective Food Animal Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with an opportunity to participate in the practice of contemporary food animal production medicine. Students will participate in the delivery of health management programs, investigation of health problems, diagnosis and medical or surgical treatment of ill or injured animals and the review and/or implementation of approaches to enhance productivity in farm animals such as dairy cattle, sheep, goats, and swine. Under supervision of a food animal practitioner, students will be given responsibility for management of individual animal cases and are encouraged to participate in the management and consultation practices of herd health. Repeatable to a maximum of 8 credits.

**CVM 7550 Selective General Practice Rotation (4 credits, Graded H/PA/U)**

This rotation will provide students with the opportunity to experience the practice of general veterinary medicine. Practices whose veterinary staff practice high quality medicine, but may not hold additional credentials or discipline experience to qualify as specialists, provide valuable educational experiences in the

diagnosis, treatment and prevention of disease in a single or multi-species setting. Under direct supervision of a general practitioner, students will be given responsibility for the management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7551 Selective Internal Medicine Rotation (4 credits, Graded H/PA/U)**

In this rotation students participate in the practice of clinical veterinary internal medicine. Students develop a detailed knowledge of the principles and techniques used in internal medicine with emphasis on patient evaluation, diagnosis and treatment of common diseases. Under direct supervision of an internal medicine specialist, students will be given responsibility for the management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7552 Selective International Veterinary Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation is intended to expose the students to animal health and public health issues outside of the USA. The students will become familiar with health issues of global concerns. They will be introduced to trans-boundary diseases that are prevalent in countries and the role of international health organizations in disease control and prevention at the local, national and global levels. Through this rotation students will be exposed to new cultures and socio-cultural habits and learn the different roles of animals in non-U.S. societies. Students will understand disease transmission in poor rural settings and the associated challenges to disease control, such as poverty, lack of education and socio-cultural beliefs. The student will learn to appreciate the various roles that veterinarians play in poor rural communities, beyond the practice of veterinary medicine. Students will work directly under the supervision of veterinarians and/or physicians in the field, in the hospital, in the University, or in international/national health organizations. When possible, students will be involved in research projects and produce a report at the end of the rotation. Repeatable to a maximum of 8 credits.

**CVM 7553 Selective Laboratory Animal Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation will acquaint the student with the careers available in laboratory animal medicine. The student will learn how to restrain, perform physical examinations, administer medications, collect samples, and anesthetize common laboratory animals. The student will become familiar with diseases of laboratory animals and the correlation of clinical findings with gross and microscopic changes along with normal anatomy. The student will learn about regulations affecting the welfare of laboratory animals and the roles and responsibilities of the laboratory animal veterinarian in this area. This will include understanding the role of the Institutional Animal Care and Use Committee (IACUC) in monitoring the program of animal care in the research facility and in evaluating research protocols. The student may participate in daily rounds, necropsies, surgical and therapeutic procedures. The student may be asked to present a seminar(s) on a selected topic. Repeatable to a maximum of 8 credits.

**CVM 7554 Selective Neurology Rotation (4 credits, Graded H/PA/U)**

This rotation will help the student develop expertise in the examination, diagnosis and management of disorders of the nervous system. Under direct supervision of veterinary neurologist, students will be given guided responsibility for the management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7555 Selective Nutrition Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with opportunities to increase their knowledge in the application of nutrition to maintain and improve animal health. Students will develop an understanding of nutritional requirements of domestic animals and methods used to evaluate the rations/diets delivered to these animals. The student will be able to determine if deficiencies or excesses exist and will gain experience in adjusting the nutritional plan to correct for those imbalances. The student will gain the knowledge necessary to make pertinent and valid recommendations concerning the nutritional plan to be developed for and utilized in the face of disease or for normal animals as they progress through the differing stages of their life, production and reproduction cycles. The student will gain knowledge of the characteristics of common feedstuffs used in the formulation of animal diets. Diagnosis, treatment, and prevention of common nutritional-based diseases in major veterinary species will also be addressed. Additionally, students may gain experience in HACCP and other regulatory procedures used to ensure safe production of animal feedstuffs. Repeatable to a maximum of 8 credits.

**CVM 7556 Selective Oncology Rotation (4 credits, Graded H/PA/U)**

This rotation provides experience in the diagnosis and treatment of cancer in domestic animals. Specific topics generally include cancer management strategies such as diagnostic techniques, treatment options, ethical considerations and client communication skills. Under direct supervision of a veterinary oncologist, students will be given responsibility for the management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7557 Selective Ophthalmology Rotation (4 credits, Graded H/PA/U)**

This rotation provides the student exposure to diagnostic ophthalmology. Students learn how to perform a complete ocular examination, apply ophthalmic diagnostic tests, use specialized equipment and apply basic technical skills necessary for ophthalmic treatments. The student will be exposed to various ophthalmic surgeries, including both intra-ocular and extra-ocular procedures. Under direct supervision of a veterinary ophthalmologist, students will be given responsibility for the medical management of individual cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7558 Selective Poultry Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation provides students the opportunity to develop their clinical knowledge and skills relative to the health care and management of poultry species, including the diagnosis and treatment of common diseases. Under direct supervision of a poultry veterinarian, students should gain an understanding of poultry production medicine and the management of individual and population cases. Students will be involved in the clinical reasoning and decision-making processes for these cases and should be able to incorporate preventive medicine knowledge with economical strategies as it impacts animal welfare, farm productivity, environmental health, disease control and biosecurity, and food safety. Repeatable to a maximum of 8 credits.

**CVM 7559 Selective Public Health Rotation (4 credits, Graded H/PA/U)**

This rotation offers students an in depth exposure to those aspects of veterinary science that have a direct impact on the physical, social and mental well being of humans. Students will work with Public Health Veterinarians in venues which will allow them to apply their knowledge of the core domains of veterinary public health. These venues include private sector, governmental agencies or academic institutions which have a strong veterinary public health component, regardless of whether that institution's primary focus is human or animal health. Repeatable to a maximum of 8 credits.

**CVM 7560 Selective Public Policy Rotation (4 credits, Graded H/PA/U)**

This course is a supervised and evaluated public policy rotation available at faculty-approved governmental affairs programs, industry trade associations, professional groups or associations, non-profit organizations, governmental bodies or agencies, or businesses/corporations. Supervised by a public policy professional, students will be introduced to, and participate in, the public policy process as it impacts the veterinary profession and/or the role and welfare of animals in society. This will include the identification of public policy problems, the setting of policy agendas, analysis of the public policy process and cycle and to the issues related to the delivery, implementation and evaluation of public policies. Repeatable to a maximum of 8 credits.

**CVM 7561 Selective Radiation Oncology Rotation (4 credits, Graded H/PA/U)**

This is designed to provide a clinical experience for the students in treatment of spontaneous tumors in dogs and cats by the use of external beam radiation therapy, in vivo radioisotope therapy and isotope seed implants. The students will be under the supervision of radiation oncologists. The students will gain experience in management, treatment, medical decision-making and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7562 Selective Radiology Rotation (4 credits, Graded H/PA/U)**

This rotation is intended to develop the student's interpretation skills in diagnostic imaging. Students will develop skills in systematic film evaluation of the appendicular skeleton, abdomen, thorax, spine, and skull and provide differential considerations of the radiographic findings. Depending on caseload, students will use radiographic, CT, ultrasonographic, echocardiographic, and nuclear medicine imaging techniques to evaluate animal patients. Repeatable to a maximum of 8 credits.

**CVM 7563 Selective Regulatory Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation will provide students with opportunities to experience the role of veterinarians in regulatory practice. Regulatory practice includes implementation, assessment, and analysis of the results of mandatory animal health protocols. Protocols may include state, federal, or international disease surveillance, monitoring, and control measures. Students may also experience activities related to compliance with import and export regulations, enforcement of quarantine orders, and investigation of reportable disease incidence or outbreaks. Students will be supervised by veterinarians employed as a State or Federal Veterinary Medical Officer or similar positions. Repeatable to a maximum of 8 credits.

**CVM 7564 Selective Research Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with a research experience. The student will learn principles of experimental design and good laboratory practices. Early in the rotation, the student will develop a specific hypothesis and design a protocol to test the hypothesis. The student will maintain a laboratory notebook, documenting the procedures and assays that are performed on a daily basis, as well as, define and explain the scientific questions that each assay is addressing and the underlying mechanisms by which the assays operate. Depending upon the rotation site, the student may participate in laboratory meetings, seminars, and/or journal clubs. At the end of the rotation, the student will prepare a one page summary of their research project, which will be written in abstract form that contains both a title and an author(s) section, with the body of the abstract addressing the background, objectives, methods, results, and conclusions of the project. Additionally, a four to five-page technical summary of the research project will be prepared. This document should be written in manuscript format, including an abstract (same as above), introduction, methods, results, and conclusions/discussion sections. Repeatable to a maximum of 8 credits.

**CVM 7565 Selective Rural Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides an opportunity for students to experience the practice of veterinary medicine in the unique culture of rural America. Students will experience high quality veterinary medicine, often times in a mixed animal practice setting, where the veterinarians serve a vital role in sustaining animal health and economic viability of the local community. Under direct supervision of a rural veterinarian, students will ideally be given responsibility for the management of both individual animal and population health cases and encouraged to participate in the decision making process and clinical reasoning. Students are expected to participate in after hours and emergency calls with their preceptor. Repeatable to a maximum of 8 credits.

**CVM 7566 Selective Shelter Medicine Rotation (4 credits, Graded H/PA/U)**

In this rotation students participate in medical assessment of, and providing veterinary medical care to, shelter housed animals. Topics such as infectious disease surveillance, prevention and control of infectious diseases, temperament testing and participation in discussions, evaluations, and demonstrations of behavioral assessments of shelter animals are included. Under the direction of a shelter veterinarian(s), students will examine, develop diagnostic and treatment plans for shelter animals utilizing triage and consider financial limitations associated with the facility. Students will evaluate small animals pre-operatively, and will participate in surgical sterilization, and monitor post-operative recovery. Repeatable to a maximum of 8 credits.

**CVM 7567 Selective Sports Performance Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation provides educational experiences for the student to develop clinical competencies in the field of sports medicine. Sports medicine is an interdisciplinary program incorporating specialists in lameness, orthopedics, cardiopulmonary disease, neurology, integrative therapies and endocrine diseases with an advance array of imaging equipment. During the rotation the student will be exposed to the basic knowledge content of sports medicine as it relates to primary care medicine, understanding the role of exercise physiology, injury prevention, injury management, and rehabilitation of common exercise and sports related acute and chronic injuries. Repeatable to a maximum of 8 credits.

**CVM 7568 Selective Small Ruminant Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides opportunities to participate in the diagnosis, treatment, prevention and control of common diseases in small ruminants. The student will develop competence in health management and meat and fiber production topics at both the individual animal and herd level. Students will develop an understanding of the economics of modern small ruminant production medicine and their influence on marketing strategies and health management decisions. Under direct supervision of a small ruminant practitioner, students will

ideally be given responsibility for the management of individual and population cases and encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7569 Selective Surgery Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with an opportunity to participate in the diagnosis and treatment of common surgical diseases. In this rotation students will be provided an opportunity to apply surgical theory, continue to develop surgical skills, techniques and principles mastered in the third year surgery course. Students are expected to participate in and (under supervision) perform routine general practice surgery as well as assisting with the complex surgical cases. Under direct supervision the students will be responsible for the management and decision making process of individual cases. Repeatable to a maximum of 8 credits.

**CVM 7570 Selective Swine Practice Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with an opportunity to participate in the diagnosis and treatment of common diseases and conditions seen in contemporary swine production medicine. Preventive medicine strategies will be emphasized through the production record analysis and routine herd health visits. Students will also become familiar with the Pork Quality Assurance (PQA) program and the veterinarians role in ensuring food quality and safety and promoting swine health and welfare. Under direct supervision of a swine practitioner, students will be provided with opportunities to develop & demonstrate entry-level competencies in clinical swine medicine & health management techniques. Repeatable to a maximum of 8 credits.

**CVM 7571 Selective Theriogenology Rotation (4 credits, Graded H/PA/U)**

In this rotation students learn the physiology and pathology of male and female reproductive systems. Students will explore the clinical practice of veterinary obstetrics, gynecology, and semenology and reproductive diagnostic techniques used in domestic animals. Breeding soundness evaluation of male and female patients, semen collection, evaluation, preservation and artificial insemination will be discussed or performed under supervision of a theriogenologist. Embryo collection, evaluation, micromanipulation, preservation and transfer may also be available. Trans-abdominal, vaginal, and rectal examination of the reproductive tract will be performed using manual and ultrasound techniques. Students will also learn expectations for fertility on a herd and individual basis, measuring fertility, monitoring fertility and fertility control schemes. Repeatable to a maximum of 8 credits.

**CVM 7572 Selective Toxicology Rotation (4 credits, Graded H/PA/U)**

This rotation provides students with an opportunity to participate in the diagnosis and clinical management of poisoned patients. In this rotation students will appreciate the clinical approach to patients who have been exposed to toxins, acutely and chronically, from a variety of sources including iatrogenic, environmental, and nutritional. In small animal cases, students will learn to approach the diagnosis and treatment of poisoned patients in a systematic and holistic manner. In large animal cases, students will learn to consider not only the health of the patient, but the implication of secondary exposures to other species, including humans, when poisoned animals and their food products enter either animal or human food products. Additionally, students may have the opportunities to learn about regulatory toxicology issues as they relate to environmental health, biosecurity, bioterrorism, and food and drug safety. Repeatable to a maximum of 8 credits.

**CVM 7573 Selective Wildlife Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation is designed to provide a clinical experience focused on the health, management, and conservation of wildlife species, including diagnosis and treatment of common diseases and the pathology associated with them. Under direct supervision of a wildlife veterinarian, students will be given responsibility for the management of individual and/or population cases and are encouraged to participate in the decision making process and clinical reasoning. Repeatable to a maximum of 8 credits.

**CVM 7574 Selective Zoological Medicine Rotation (4 credits, Graded H/PA/U)**

This rotation will acquaint the student with the careers in Zoo Animal Medicine. The student will be exposed to clinical techniques, including restrain, physical examinations, administering medications, collecting samples, anesthesia, and diagnostic imaging of a variety of zoo animals. The student will become familiar with preventive medicine, quarantine procedures, nutrition and husbandry of zoo animals. The student will learn about regulations affecting the welfare of zoo animals as well as the roles and responsibilities of the zoo veterinarian in this area. Under direct supervision of the zoo veterinarian, the student may participate in daily

rounds, necropsies, surgical and therapeutic procedures. The student may be asked to present a seminar on a selected topic. Repeatable to a maximum of 8 credits.

**CVM 8090 Independent Study (1-8 credits)**

Supervised student-centered learning experience in a clinical, administrative or research setting. Repeatable to a maximum of 8 credits. Prior permission of the Dean's Office is required in order to repeat this course.

## HONORS AND AWARDS

Awards are presented annually at the College's Honors Day ceremony in April and at the College's Commencement activities in May.

## ACADEMIC CALENDAR

### Fall, 2010

Monday, Aug. 2, 2010  
Orientation Week Begins (required)  
Fall Semester Tuition Due (1<sup>st</sup> & 2<sup>nd</sup> years)

Saturday, Aug. 7, 2010  
Convocation

Monday, Aug. 9, 2010  
Classes begin

Monday, Sept. 6, 2010  
Labor Day (no classes)

Monday, Oct. 11, 2010  
Columbus Day (no classes)

Wednesday, Nov. 24, 2010  
Thanksgiving Recess (5 pm)

Monday, Nov. 29, 2010  
Classes resume

Fri., Dec. 17, 2010  
Last day of Fall Semester classes

### Spring, 2011

Monday, Jan. 3, 2011  
Classes begin

Monday, Jan. 17, 2011  
Martin Luther King Day (no classes)

Monday, Feb. 21, 2011  
President's Day (no classes)

Monday, Mar. 21 – Friday, Mar. 25, 2011  
Spring Break

Friday, May 13, 2011  
Last day of Spring semester classes

Friday, May 20, 2011  
Commencement

## VETERINARIAN'S OATH

Being admitted to the profession of veterinary medicine, I solemnly swear to use my scientific knowledge and skills for the benefit of society through the protection of animal health, the relief of animal suffering, the conservation of animal resources, the promotion of public health, and the advancement of medical knowledge.

I will practice my profession conscientiously, with dignity, and in keeping with the principles of veterinary medical ethics.

I accept as a lifelong obligation the continual improvement of my professional knowledge and competence.

*Adopted by the American Veterinary Medical Association in November, 1999*

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Director, Admissions (Pharmacy, Graduate Nursing): Kathy Ford  
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**College of Podiatric Medicine**

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## **FACULTY**

Clinton Adams, Professor of Family Medicine, 2005. BS, Baldwin-Wallace College; DO, Chicago College of Osteopathic Medicine; MPA, University of Oklahoma.

M. Monica Adams, Assistant Professor of Physician Assistant Education, 2004. AS, Rio Hondo College; BS, California State University, Dominguez Hills; PA-C, Western University of Health Sciences.

Ana Alcaraz, Associate Professor of Veterinary Medicine, 2007. DVM, Universidad Nacional Autonoma de Mexico; PhD, Cornell University.

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Margaret C. Barr, DVM, PhD, Professor of Veterinary Medicine, 2004. BS, University of the South; DVM, Auburn University; PhD, Cornell University.

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Gurupadappa V. Betageri, Professor of Pharmaceutical Sciences, 1998. BS, Karnatak University; MS, Bangalore University; PhD, University of Alberta.

Rajeshkumar (Rajesh) Bhalodia, Assistant Professor of Internal Medicine, 2010. MBBS, Maharaja Sayajirao University of Baroda.

Xiaoning Bi, Associate Professor of Basic Medical Sciences, 2005. MD, Binzhou Medical University; MS, Third Medical University of the People's Liberation Army; PhD, University of Southern California.

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Pedro P. Diniz, Assistant Professor of Veterinary Medicine, 2009. DVM, PhD, Sao Paulo State University.

Paul M. Dobies, Assistant Professor of Optometry, 2009. BS, Loyola Marymount University; BS, OD, Southern California College of Optometry.

Yvonne Drechsler, Assistant Professor of Veterinary Medicine, 2007. Dip. Biology, PhD, University of Tübingen.

Quannetta T. Edwards, Associate Professor of Graduate Nursing, 2010. RN, Providence Hospital School of Nursing; AA, McMurray University; BS, University of Texas, San Antonio; MS, Wright State University; MS, Mississippi University for Women; PhD, The Catholic University of America.

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Maria Fahie, Professor of Veterinary Medicine, 2002. BS, Dalhousie University; DVM, University of Prince Edward Island; MS, Virginia-Maryland Regional College of Veterinary Medicine.

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Sandra Farah-Franco, Assistant Professor of Dental Medicine, 2009. BS, University of California, Los Angeles; DDS, University of Southern California.

Babak Faramarzi, Assistant Professor of Veterinary Medicine, 2009. DVM, Azad University; MSc, PhD, University of Guelph.

Jeffrey Felton, Professor of Microbiology, 1993. BS, Massachusetts Institute of Technology; PhD, Tufts University.

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Steven W. Friedrichsen, Professor of Dental Medicine, 2010. BS, Seattle University; DDS, Northwestern University.

Roger A. Gallegos, Assistant Professor of Graduate Biomedical Science, 2005. BA, San Diego State University; PhD, Princeton University.

Sandra J. Garner, Instructor of Social Medicine and Administrative Sciences, 2007. BA, California State University, Fullerton; Med, Claremont Graduate University.

Rebecca E. Giusti, Assistant Professor of Osteopathic Manipulative Medicine (Part-time), 2007. DO, Western University of Health Sciences.

Lisa M. Goldstein, Assistant Professor of Graduate Nursing, 2006. BSN, Loma Linda University; MSN, California State University, San Bernardino.

Paul Gordon-Ross, Assistant Professor of Veterinary Medicine, 2007. BS, University of California, Riverside; MS, DVM, University of California, Davis.

Pamela D. Govett, Assistant Professor of Veterinary Medicine, 2007. BS, University of Arizona; DVM, University of Florida.

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Vuong Green, Instructor of Pharmacy Practice and Administration, 2008. AS, Santa Ana Community College; BS, University of California, Irvine; PharmD, Western University of Health Sciences.

Lee R. Grunden, Professor of Pharmacology (Emeritus), 1980. BS Oregon State University; PhD, University of California, San Francisco Medical Center.

Vidalita Genove Grunden, Professor of Pathology (Emerita), 1980. AA, Sillman University; MD, University of Santa Tomas.

Gary M. Gugelchuk, Associate Professor of Health Professions Education, 1986. BA, MA, PhD, The Ohio State University.

Beverly Guidry, Instructor of Health Professions Education, 1997. BA, MS, EdD, University of LaVerne.

Ron Guiley, Assistant Professor of Optometry, 2010. BS, University of Oregon; MPH, OD, University of California, Berkeley.

Roy A. Guizado, Associate Professor of Physician Assistant Education, 1994. PA-C, College of Osteopathic Medicine of the Pacific; MS, Western University of Health Sciences.

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Education

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Gail Singer-Chang, PsyD Adjunct Assistant Professor of Social Medicine & Healthcare Leadership	James E. Smith, PA-C, MS Assistant Professor of Physician Assistant Education
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Ruby Singh, DO Assistant Professor of Family Medicine	Kenneth R. Smith, DO Assistant Professor of Family Medicine
Tejinder Singh, MD Assistant Professor of Internal Medicine	Kevin Smith, MD Assistant Professor of Psychiatry
Prem Singla, MD Associate Professor of Family Medicine	Larry D. Smith, DO Assistant Professor of Internal Medicine
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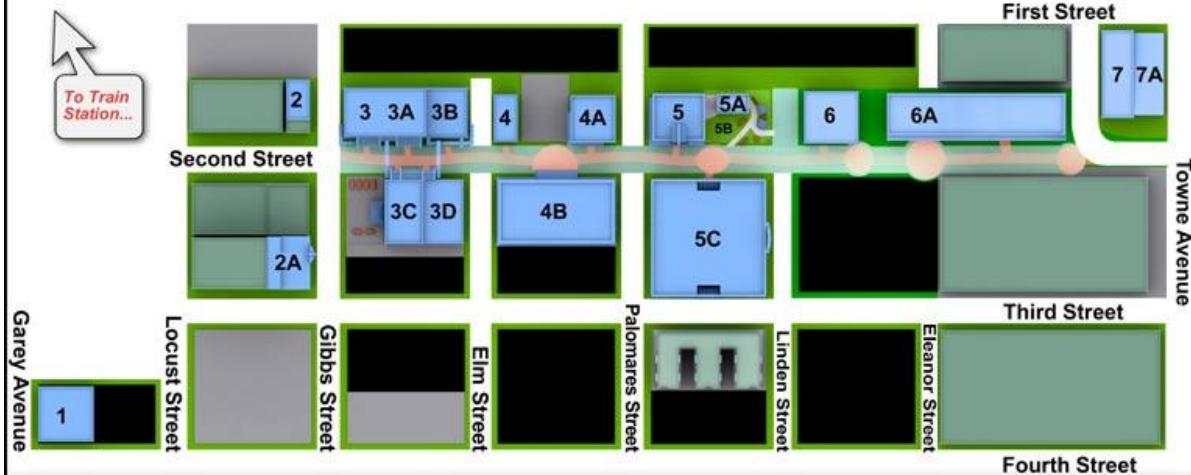
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**Matthew D. Zollinger, MD**  
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**John P. Zopfi, DO**  
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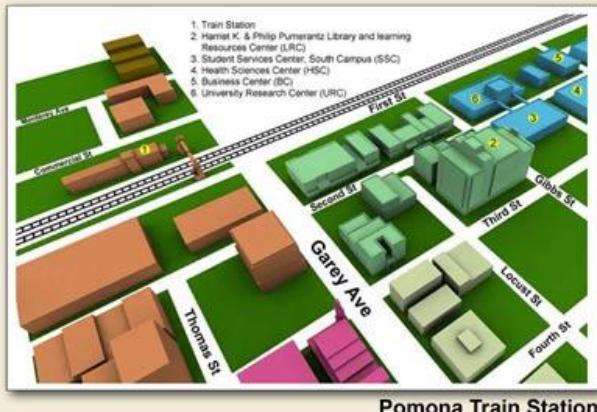


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## Campus Map

1. Nursing Science Center (NSC) (355 S. Garey Avenue)
2. Technology Training Center (TTC)
- 2A. Harriet K. & Philip Pumerantz Library and Learning Resource Center (HPLRC)
3. University Research Center (URC)
- 3A. Administration & Alumni Center (AAC)
- 3B. Booth Book Center (BBC)
- 3C. Student Services Center (SSC)
- 3D. Harris Family Center for Disability and Health Policy (CDHP)
4. University Services Center (USC)
- 4A. Business Center (BC)
- 4B. Health Sciences Center (HSC)
5. Veterinary Medicine Center (VMC)
- 5A. Veterinary Pathology Center (VPC)
- 5B. Ethan Allen Park
- 5C. Health Professions Center (HPC)
6. Banfield Veterinary Clinical Center (BVCC)
- 6A. Health Education Center (HEC)
7. Patient Care Center (PCC) (795 E. Second Street)
- 7A. Parking Structure



**Page 134, Second Year, Summer Term:**

Change DMD 6005 Clinical Comprehensive Care I (10.0 credit hours) to DMD 6005 Essentials of Clinical Dentistry III (4.0 credit hours)

**Page 134, Second Year, Spring Term:**

Add DMD 6155 Behavioral Medicine and Psychiatry (5.5 credit hours)

**Page 137:** Change DMD 5155 Behavioral Medicine and Psychiatry (5.5 credit hours) to DMD 6155 Behavioral Medicine and Psychiatry (5.5 credit hours)

**Page 137:** Delete the course description for DMD 6005 and replace with the following:

**DMD 6005 Essentials of Clinical Dentistry III (4.0 credit hours, graded)**

Continuation of DMD 5150 Essentials of Clinical Dentistry II.

**Page 147:** Insert the following paragraph in its entirety immediately after the current Doctor of Nursing Practice curriculum description.

**Note on “Clinical” Education for DNP Students:**

The faculty of the DNP program is conducting a comprehensive review of its program in order to better align it with national accreditation expectations. While the current catalog language refers to “clinical”, “clinical immersion” and “clinical hours” as part of the course activities in the DNP curriculum, these activities are not to be understood as solely related to the provision of direct patient care services. Instead, such “clinical” activities include the full gamut of roles in health care (i.e., nursing practice) appropriate to the doctorally prepared practicing nurse. The DNP program will be dropping the use of the term “clinical” and will be replacing it with the more general “practice” to better reflect these broader roles. Therefore, in presentations of requirements contained in the current catalog as “clinical experiences”, “clinical immersion activities”, or “clinical hours” in the DNP program, please be mindful that these refer to all the various practice activities appropriate for a doctoral nursing student. The single major exception to this is the title and course description of CGN 8030, which remains unchanged.

Future issues of the catalog will completely revamp the catalog description to reflect this change from the use of the word “clinical” to “practice”. A draft of the proposed revised catalog presentation can be obtained from the College of Graduate Nursing.

**Page 154, Additional Fees and Expenses for Pre-Licensure MSN-E Students,** Change Clinical Education Fee amount from \$500 to \$520.

**Page 154, Additional Fees and Expenses for Pre-Licensure MSN-E Students,** Change On-line/technology Curriculum Support Fee amount from \$400 to \$600.

**Page 155, REQUIRED SUPPLIES FOR CLINICAL, MSN-E Pre-licensure:** Add a Calculator to this list of required items.

**Page 191, ADN/RN to MSN/FNP Curriculum Grid, Right Column:** For “Total Year 4 Units” read “Total Year 3 Units”.

**Page 204, CGN 8090:** Replace course title and description with the following:

**CGN 8090 – Practice Immersion Project (3 units per systems for a total of 6 units, CR/NCR) (with practice hours)**

This course focuses on the completion of a practice immersion experience and independent evidence-based project in a vulnerable population, which provides an illustration of the essential competencies of the practice doctorate.

## **Kimberly DeKruif**

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**From:** Pat Callard  
**Sent:** Friday, April 30, 2010 12:38 PM  
**To:** Kimberly DeKruif; Susan Mackintosh  
**Subject:** RE: questions on how IPE is listed in the catalog for CGN

Yes to 5000 and 5001. IPE 6000 is NOT a required course in year 2.

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-----Original Message-----

**From:** Kimberly DeKruif  
**Sent:** Friday, April 30, 2010 12:14 PM  
**To:** Susan Mackintosh; Pat Callard  
**Subject:** RE: questions on how IPE is listed in the catalog for CGN

Good afternoon -

Just to clarify - first year MSN-E students will be taking IPE 5000 during the Fall 2010 term and IPE 5100 during the Spring 2011 term. Second year MSN-E students will be taking IPE 6000 during the Fall 2010 term, but will not be enrolled in IPE 6100 during the Spring 2011 term.

Please let me know the final status of this by Monday, May 3, 2010.

Thanks  
Kim

-----Original Message-----

**From:** Susan Mackintosh  
**Sent:** Friday, April 30, 2010 7:52 AM  
**To:** Pat Callard  
**Cc:** Kimberly DeKruif  
**Subject:** RE: questions on how IPE is listed in the catalog for CGN

Thank Pat. Let me pass at least this bit on to Kimberly DeKruif. If more is needed, we can meet Monday.

-----Original Message-----

**From:** Pat Callard

Sent: Friday, April 30, 2010 7:51 AM  
To: Susan Mackintosh  
Subject: RE: questions on how IPE is listed in the catalog for CGN

Everyone is in a mandatory faculty meeting all day. 6000 definitely would not be a first year requirement and we didn't decide if CGN could participate based on their schedule - might be optional. 6100 is definitely out since students are gone in spring of year 2.

Pat

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-----Original Message-----

From: Susan Mackintosh  
Sent: Friday, April 30, 2010 7:16 AM  
To: Pat Callard  
Cc: Kimberly DeKruif  
Subject: RE: questions on how IPE is listed in the catalog for CGN

Pat,

Let me check with Kimberly on the urgency of this. I will be offsite all afternoon, but am here for the morning. If this is an urgent situation that needs to be addressed today, is there someone from nursing we can work with? Otherwise, we'll just follow up on Monday.

Susan

-----Original Message-----  
From: Pat Callard  
Sent: Thursday, April 29, 2010 10:40 PM  
To: Susan Mackintosh  
Subject: RE: questions on how IPE is listed in the catalog for CGN

Susan,

I'm in clinical for 12 hours on Wednesdays and Thursdays. Friday - 4-30 we have an all day faculty meeting. Can it wait til Monday??

Thanks, Pat

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From: Susan Mackintosh  
Sent: Thursday, April 29, 2010 7:12 AM  
To: Pat Callard  
Cc: Kimberly DeKruif  
Subject: questions on how IPE is listed in the catalog for CGN

Hi Pat,

When you get a chance, can you give me a call. I had a message from Kim DeKruif regarding the listing for IPE for next academic year. It looks like they have both IPE 5000 and 6000 listed as a fall first year requirement and 5100 and 6100 as a second semester first year requirement.

The 5000 course is the only first year course for the first semester and the 5100 is the only course for the second semester of the first year. Both IPE 6000 and 6100 are meant are second year courses. Somewhere in the back of my mind, I thought CGN was going to participate in 5000 and 5100 as first year requirements, and possibly 6000 in the fall semester of the second year, but most likely not 6100 as the students will be gone. Can you give me a call so we can clear this up. Perhaps we can even come up with a mutual time to run over and talk with Kim DeKruif.

Thanks.

Susan

Susan Mackintosh, DO, MPH  
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**Page 230, Satisfactory Progress, line 3:** Replace “D” with “F”.

August 19, 2011

To the Registrar  
Western University of Health Sciences  
Pomona, CA

Dear Ms. DeKruif,

This memo is to confirm that no optometry students were enrolled in or expected to take the following courses during Academic Year 2010-2011:

OPTM 5131      Ocular Pharm I: Diagnostics (2096)  
OPTM 6191      Service Learning II (2460).

OPTM 5131 has been eliminated from our curriculum altogether and is not required for completion of the OD degree for all classes beginning with the class of 2014 and for all subsequent classes. It no longer appears in our latest Catalog, the one that is available through the University website.

OPTM 6191 and its prerequisite OPTM 6091 have been moved to the second year of our curriculum, effective July 1, 2010. As a result of this move, students in the class of 2014 were not assigned to either of these classes during their first year, Academic Year 2010-2011, but will be taking them this fall and spring during Academic Year 2011-2012. They will remain in the catalog and will continue to be a requirement for completion of the OD degree. Students in the class of 2013 completed these courses during their first year, Academic Year 2009-2010, and so were also not enrolled in these classes during this past academic year.

Please let me know if I can be of further assistance.

Sincerely,

Daniel Kurtz, Associate Dean of Academic Affairs  
Western University College of Optometry

**Page 220, Fall Semester B:** Change IPE 5000 Patient Centered Cases – An Interprofessional Approach to GCBS 5000 Introduction to Interprofessional Education I.

**Page 220, Spring Semester 3:** Change IPE 5100 Patient Centered Cases – An Interprofessional Approach to GCBS 5100 Introduction to Interprofessional Education II

**Page 223:** Delete the course description for IPE 5000-5100 and replace with the following:

**GCBS 5000      Introduction to Interprofessional Education I (1 credit hour, graded)**

This course prepares students to gain an understanding of the different health care professions and how they collaborate to promote patient and community centered care. GCBS 5000 is designed to instill an awareness level in the student regarding non-technical competencies such as communication, collaborative practice, and scope of practice issues. Students will initially receive foundational information on the above competencies. Students will then observe a small interprofessional group, case-based discussion designed to further promote an awareness of the importance of the collaborative care model. Utilizing this case as a learning vehicle, the student will observe the importance of additional elements common to all professions, such as ethical, behavioral, social and psychological issues that will impact the health and well being of the patient or community. The student will then be expected to integrate this knowledge into a short research paper that describes a critical need for interprofessional education or practice.

**GCBS 5100      Introduction to Interprofessional Education II (1 credit hour, graded)**

This course is designed to instill in the student the importance of collaboration and team work in health care settings, both at the individual patient and the community levels. The concept of team work will be implemented as the student will be expected to apply baseline knowledge from GCBS 5000 toward completion of a group project. The project will focus on development of a coordinated care case, development of a health care system model, or other community based project approved by the Course Director. The project must not only demonstrate an understanding of collaborative care in the community and the dynamic and integrated relationship of individual community systems as they affect individual and community health and wellness, but the student must also demonstrate successful team dynamics within his/her group. **Prerequisite:** Successful completion of GCBS 5000.

**Page 218**, Replace the current section on **Academic Standing** with the following:

Only grades in Western University of Health Sciences courses approved for graduate credit will be used in determining the overall grade point average for continuation in the MSMS program. Students receiving a failing grade in any course will be reviewed by the Student Progress Committee (SPC) of the GCBS and a recommendation regarding remediation will be made to the Dean of the GCBS. Students who achieve a grade of C or lower may petition the SPC to remediate the following courses: DO 5002 GCBS 5041, 5042, 5090, 5081. At the discretion of the SPC, course remediation may involve repeating the entire course or taking a comprehensive examination. Ordinarily, the opportunity to remediate is not offered to the student for more than 2 courses during the entire course of study. The educational objectives that underlie remedial teaching and evaluation will be the same as the educational objectives that underlie regular courses in the curriculum. A student who successfully remediates a course will receive the grade awarded in the remediation. The score (grade) achieved by remediation will be re-recorded on the transcript along with a notation of the original grade (examples: U/B). Only the remediated grade will count toward the total GPA. The academic record of a student who does not pass the remediation of a course will be reviewed by the SPC and the student may be recommended to repeat a semester, repeat the academic year in its entirety, or to be dismissed from the CGBS.

If, at the end of any semester, the cumulative grade point average falls below 2.5, the student will be placed on academic probation, and financial support will be discontinued. A 2.0 (C) grade earned in any class may be applied toward graduation only if the overall grade point average at the time of application for graduation continues at a minimum 2.3 cumulative grade point average. Any grade below a 2.0 (C) may not be applied toward graduation.

**Page 220, Fall Semester B:** Change IPE 5000 Patient Centered Cases – An Interprofessional Approach to GCBS 5000 Introduction to Interprofessional Education I.

**Page 220, Spring Semester 3:** Change IPE 5100 Patient Centered Cases – An Interprofessional Approach to GCBS 5100 Introduction to Interprofessional Education II

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**GCBS 5100      Introduction to Interprofessional Education II (1 credit hour, graded)**

This course is designed to instill in the student the importance of collaboration and team work in health care settings, both at the individual patient and the community levels. The concept of team work will be implemented as the student will be expected to apply baseline knowledge from GCBS 5000 toward completion of a group project. The project will focus on development of a coordinated care case, development of a health care system model, or other community based project approved by the Course Director. The project must not only demonstrate an understanding of collaborative care in the community and the dynamic and integrated relationship of individual community systems as they affect individual and community health and wellness, but the student must also demonstrate successful team dynamics within his/her group. **Prerequisite:** Successful completion of GCBS 5000.