An Equal Opportunity/Affirmative Action Institution

The Oklahoma State University Center for Health Sciences provides equal employment and/or educational opportunity on the basis of merit and without discrimination because of age, race, ethnicity, color, religion, sex, sexual orientation, genetic information, gender, gender identity or expression, national origin, disability, protected veteran status, or other protected status in any of its policies, practices, or procedures.

Policies and regulations in this Catalog are effective July 1, 2021 and apply to all students. The provisions of this Catalog may be subject to change as a result of official administrative actions. We reserve the right to apply such changes to registered and accepted students as well as to new admissions. No contractual rights between the Center for Health Sciences and any student are intended and none may be deemed to be created by the issue of this Catalog. The Center for Health Sciences is not responsible for any misinterpretation of its requirements or provisions resulting from editorial or printing errors.

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I. Academic Calendar for 2021 – 2022

- Medical Students
- Biomedical Science and Physician Assistant Students Taking Shared Courses

A. Medical Students

FALL 2021

July 5         Class of 2023 rotations begin (3rd/4th years see detailed schedule from Clinical Education)
July 26 - 30   MSI Required Orientation (see detailed schedule)
July 30        White Coat Ceremony – Tahlequah Campus
July 31        White Coat Ceremony – Tulsa Campus
Aug. 2         First Day of Class
Aug. 10        Last day for 100% refund on withdrawal
Aug. 17        Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
Sept. 6        Labor Day Holiday
Nov. 8         Last day to withdraw from all courses with automatic “W”
Nov. 23        Last day to withdraw from all courses with assigned “W” or “F”
Nov. 25 - 26   Thanksgiving Holiday
Dec. 3         Last day of class
Dec. 6 - 9     Finals
Dec. 14        Final grades due from faculty

SPRING 2022

Jan. 5         First Day of Class
Jan. 13        Last day for 100% refund on withdrawal
Jan. 17        Martin Luther King holiday
Jan. 20        Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
March 14 - 18  Spring Break
April 11 - 14  MS II Finals
April 11        Last day to withdraw from all courses with automatic “W”
April 27        Last day to withdraw from all courses with assigned “W” or “F”
May 5          Last Day MS I Classes
May 9 - 12     MS I Finals
May 14         Graduation
May 17         Final grades due from faculty
June 24        End of MS II Semester
B. Graduate Students
(Biomedical Science and Physician Assistant students taking shared medical school courses, please see medical school calendar)

FALL 2021

Aug. 13  Final enrollment date before late fees assessed
Aug. 16  First day of class (students taking Foundations courses, please see Medical Students Calendar)
Aug. 23  Nonrestrictive Drop/Add Deadline (100% refund)
Aug. 27  Restrictive Drop/Add Deadline (partial refund)
          Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
Sept. 6   Labor Day Holiday
Nov. 1    Deadline to file Graduation Application for fall 2020 Graduation
Nov. 6    Last day to drop a course with grade of "W"
          Last day to withdraw from all courses with automatic "W"
Nov. 19   Last day to withdraw from all courses with assigned “W” or “F”
Nov 22 - 24 Students’ Fall Break (students taking Foundations courses may have class meetings)
Nov. 25 - 26 Thanksgiving Holiday
Dec. 3    Last day of class
Dec. 6 - 10 Finals
Dec. 15   Grades due electronically from faculty (noon)

SPRING 2022

Jan. 7    Final enrollment date before late fees assessed
Jan. 10   First day of class (students taking Systems courses, please see Medical Students Calendar)
Jan. 17   Martin Luther King, Jr. Holiday
Jan. 18   Nonrestrictive Drop/Add Deadline (100% Refund)
Jan. 21   Restrictive Drop/Add Deadline (Partial Refund)
          Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
March 14 - 18  Spring Break
April 1   Deadline to file Graduation Application
April 8   Last day to drop a course with grade of “W”
          Last day to withdraw from all courses with automatic “W”
April 22  Last day to withdraw from all courses with assigned “W” or “F”
April 29  Last day of class
May 2 - 6  Finals
May 11    Grades due electronically from faculty (noon)
May 14    CHS Commencement Ceremony
II. Mission, Vision, and Goals of Oklahoma State University Center for Health Sciences

Mission
Oklahoma State University Center for Health Sciences educates and trains osteopathic physicians, scientists and healthcare professionals with an emphasis on serving rural and underserved Oklahoma.

Vision
Oklahoma State University Center for Health Sciences will be recognized for:
- Fulfilling the health care needs of rural and underserved Oklahoma
- Producing graduates who are dedicated, effective, and compassionate community leaders
- Advancing the frontier of medical research
- Providing excellent care and health-related community service
- Being a leader and innovator in education
- Being the medical and graduate school of choice

Goals and Objectives
The Oklahoma State University Center for Health Sciences will pursue goals in the areas of education, research, and service.

Education
- Use best practices in graduate and medical education to provide state-of-art learning
- Be leaders, innovators and scholars in graduate and medical education
- Increase the number of graduate programs serving Oklahoma
- Develop new strategies for inter-disciplinary and inter-professional training

Research/Scholarship
- Actively pursue basic, clinical and education research
- Provide new career opportunities for graduates in graduate and professional programs
- Develop new strategies of health care delivery with an emphasis in rural and underserved Oklahoma
- Participate in and enable scholarly activity to advance knowledge of health care, osteopathic medicine and in the sciences and technologies that will shape medicine, science, and education

Service
- Improve the health and well-being of rural and underserved populations
- Conduct innovative and collaborative research and integrate this knowledge into health care

III. Campus & Facilities
Located on the west bank of the Arkansas River, minutes from downtown Tulsa, the main OSU Center for Health Sciences campus is housed in a modern, multi-building complex on 16 acres. The complex consists of classrooms, biomedical and clinical science teaching and research laboratories, clinical simulation center, offices, lecture halls, break-out rooms, a medical bookstore, and a medical library. The Tulsa Police Department forensic laboratory is also located on the campus in conjunction with the Forensic Sciences graduate program, one of only two facilities like it in the nation. Six OSU Physician clinics are located within one mile of the main campus serving as both teaching clinics for students and a health resource for the community. Interstate Highway 244 borders the campus and provides convenient access to the College.

The OSU College of Osteopathic Medicine at the Cherokee Nation is an additional teaching site located in Tahlequah, Oklahoma. The campus is located on the Cherokee Nation Reservation adjacent to Cherokee Nation Health Services outpatient health care center and W.W. Hastings Hospital. The Tahlequah site has enrollment of 50 students per class. The new 84,000 square foot facility includes an anatomy laboratory, clinical skills and OMM labs, standardized patient labs, and a simulation center. There are also lecture halls, classrooms, faculty offices as well as study carrels and a gym/workout area. Tahlequah is unique in its location, centered in the midst of the Illinois River Valley with Lake Tenkiller and Lake Fort Gibson close by to provide unlimited recreation and beautiful scenery.

Campus Security Policy
In an effort to create a safe environment for working and learning, employees, students, vendors, and visitors are asked to wear an official OSU photo identification (ID) card while on campus and at other campus-affiliated buildings and clinics. The photo ID should be clearly visible at all times and must be presented upon request of management personnel or other public safety officials. The photo ID issued by OSU-CHS Campus Security is the official OSU-CHS ID. Only the individual to whom the ID is issued is authorized to wear or possess his/her ID. Employees and students who loan their ID or attempt to use another’s ID will be subject to discipline. It is the responsibility of the
employee/student to replace his/her ID should it become lost or damaged. The ID is the property of OSU-CHS and must be relinquished upon termination from employment or student dismissal or withdrawal.

**Procedures**
Upon admission or employment and completion of all necessary orientation and paperwork, all employees (full-time and part-time) and students will be issued an ID. The loss of a photo ID must be immediately reported to the Security Office. A replacement card will be made for lost, stolen, or defaced cards. There is not a replacement fee for these cards. The Security Officer at the kiosk located at the north end of Founders Hall on the Tulsa campus or at the main entrance on the Cherokee Nation campus will issue a one-day temporary ID should any employee or student fail to wear his/her ID to campus. Verification of identity and employment status will be made before the temporary ID is issued. Should it be determined that a person is a habitual user of the temporary system, their name will be given to the appropriate supervisor or Interim Assistant Dean for Student Life for potential disciplinary actions.

**Vendors/Visitors**
Vendors and visitors are required to obtain a guest ID by checking in at a reception desk on the ground floor. Visitors and vendors are required to wear their visitor ID in a clearly visible manner while conducting business on OSU-CHS property. Vendors and visitors who do not comply will be escorted off campus.

**Recruitment and Marketing Prohibitions**
OSU-CHS complies with all federal regulations regarding recruitment and marketing practices.

**A. Medical Library**
The Medical Library provides biomedical information and services to support education, research, patient care, and community outreach. Our college has one of the best biomedical libraries in Oklahoma, consisting of more than 5,000 electronic journals, 4,500 electronic books, 3,400 print books, and a growing collection of rare books and manuscripts in the archive. Additional resources can be purchased on demand or borrowed from other libraries. The Library also provides access to research databases and support tools, including ClinicalKey, COMQEST, TrueLearn COMBANK, Embase, Google Scholar, SciVal, Scopus, Web of Science, UpToDate, and VisualDx, among many others. See the Medical Library’s website for a complete list of resources and services: medicine.okstate.edu/library.

**Facilities**
The Tulsa Medical Library, located in the Felmlee building, provides eight, reservable, group study rooms that each include a computer and large TV monitor display (seating for 56), 213 individual study carrels in the Medical Library and Tandy Academic Building, and a variety of open seating areas (seating for 27); seating for 296 in total. The Tulsa Library also contains a dedicated eight-station testing center for students taking exams and quizzes outside of the classroom setting.

**Hours**
Monday – Friday 5:00 a.m. – Midnight
Saturday – Sunday 9:00 a.m. – Midnight

The OSU-COM-CN Medical Library, located on the second floor, is surrounded by study carrels and group study rooms. Inside, the library provides a variety of open seating options for twenty, as well as standing work spaces for six. Users have access to two color and black-and-white printers, a poster printer, and a 3D printer. Additionally, two desktop computers are available for use in the library and ten laptops available for check-out. Finally, the library houses the Talking Leaves (EY̿ɡEY̿ɡEY̿ɡEY̿ɡEY̿ɡ5) print book collection. One librarian and one IT helpdesk technician are available from Monday – Friday, 8:00 a.m. – 5:00 p.m.

The library can be entered seven days per week, 5:00 a.m. – Midnight. Self-checkout is available.

**Borrowing Library Materials**
Library materials may be borrowed by presenting a valid student ID to the front desk located near the entrance. Popular items include board review and clinical rotation study guides.

**Loan Periods**

<table>
<thead>
<tr>
<th>Item</th>
<th>Period</th>
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<tbody>
<tr>
<td>Print Books</td>
<td>30 days</td>
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<tr>
<td>Course Reserve Materials</td>
<td>3 hours</td>
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<tr>
<td>Models, Realia</td>
<td>Same day</td>
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<tr>
<td>Bone Boxes</td>
<td>3 days</td>
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<tr>
<td>Audiovisual</td>
<td>7 days</td>
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<tr>
<td>Laptops</td>
<td>7 days</td>
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</tbody>
</table>
Renewals
Renewal requests may be made via the online catalog, in person, by phone at 918-561-8449, and by email at alma.chslibrary@okstate.edu.

Interlibrary Loan
If a specific book or journal article is not available, it can often be ordered through our Interlibrary loan service. Requests can be made on the library website or by emailing sheila.pete@okstate.edu.

Off Campus Access
Students, staff, and faculty have access to electronic books, journals, and databases via the library website using O-Key account credentials.

Work Study Positions
For information about library work study positions please email scott.murray@okstate.edu.

Library Policies
Policies are available on the Medical Library website (medicine.okstate.edu/library). Feedback, questions, or concerns should be sent to Jon Goodell, Director, Medical Library, at 918-561-8451 and jon.goodell@okstate.edu.

IV. Oklahoma State University College of Osteopathic Medicine

A. Mission, Vision, and Goals

Mission
Oklahoma State University College of Osteopathic Medicine educates osteopathic primary care physicians with an emphasis on serving rural and underserved Oklahoma.

Vision
Oklahoma State University College of Osteopathic Medicine will be recognized for:
- Fulfilling the health care needs of rural and undeserved Oklahoma
- Producing graduates who are dedicated, effective, and compassionate community leaders
- Providing excellent care and health-related community service
- Being a leader and innovator in education
- Being the medical school of choice

Goals and Objectives
The Oklahoma State University College of Osteopathic Medicine will pursue goals in the areas of education, research and service.

Education
- Use best practices in graduate and medical education to provide state-of-art learning
- Be leaders, innovators and scholars in medical education
- Demonstrate and evolve the principles and practices of osteopathic medicine
- Increase the number of existing residency and training programs in Oklahoma focusing on rural and underserved areas.

Research/Scholarship
- Actively pursue basic, clinical, and education research
- Develop new strategies of health care delivery with an emphasis in rural and undeserved Oklahoma
- The COM will participate in and enable scholarly activity to advance knowledge of health care, osteopathic medicine / osteopathic manipulative medicine and in the sciences and technologies that will shape medicine, science, and education.

Service
- Improve the health and well-being of rural and underserved populations
- Work with the community and clinical affiliates to promote and provide distinctive osteopathic health care, including osteopathic manipulative medicine

B. History
Founded in 1972 to train primary care physicians for small towns and rural areas of Oklahoma, the Oklahoma State University College of Osteopathic Medicine continues to fulfill this mission. A 1971 study confirmed the feasibility of
an osteopathic medical college, and the Oklahoma College of Osteopathic Medicine and Surgery was created on March 10, 1972. In the spring of 1988, the Oklahoma legislature adopted House Bill No. 1801, repealing the law that established the Oklahoma College of Osteopathic Medicine and Surgery and declaring the College of Osteopathic Medicine to be an agency of Oklahoma State University. According to this new bill, the College will “continue to give emphasis to the preparation of doctors of osteopathic medicine in the field of general practice.” The merger became official on July 1, 1988, when the OSU College of Osteopathic Medicine became Oklahoma State University’s ninth college. OSU College of Osteopathic Medicine students began study in 1974, and the first class of 34 students graduated in 1977. Since then, the college has graduated more than 3,000 students. The entering class size has increased from 36 in 1974 to its current 165 students with an additional site in Tahlequah. The college is governed by the Board of Regents for Oklahoma Agricultural and Mechanical Colleges, which also governs OSU, Langston University, Oklahoma Panhandle State University, Connors State College, and Northeastern Oklahoma A&M College. An advisory board advises the President of OSU Center for Health Sciences as well as the Dean of the College of Osteopathic Medicine, the administration of OSU, and the Board of Regents for the A&M Colleges, regarding the education of osteopathic physicians at OSU College of Osteopathic Medicine.

C. Code of Ethics
Administration, faculty, and staff of the OSU-College of Osteopathic Medicine adhere to the American Osteopathic Association’s Code of Ethics, adopted by the College in 2008. As student members of the osteopathic profession, OSU-COM students are expected to comply with the AOA Code of Ethics, which can be found at https://medicine.okstate.edu/com/code-of-ethics.html.

D. Accreditation
The university is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. The medical school is accredited by the Commission on Osteopathic College Accreditation (COCA) of the American Osteopathic Association, the recognized accrediting agency for institutions that train osteopathic physicians (Commission on Osteopathic College Accreditation, American Osteopathic Association, 142 East Ontario Street, Chicago, IL 60611, Telephone: 312-202-8000, Email: predoc@osteopathic.org). The Oklahoma State Regents for Higher Education are empowered by the Oklahoma Constitution to prescribe standards for higher education applicable to each institution in the Oklahoma State System of Higher Education.

E. OSU Physicians Clinics
The OSU Physician system covers a wide variety of specialties with more than 100,000 patient visits each year. The community-based Tulsa clinics serve as a teaching model for OSU medical students. They are staffed by medical residents and faculty physicians. Each clinic provides essential health care to the community, including caring for the underserved population in Tulsa and northeastern Oklahoma.

OSU Health Care Center
2345 Southwest Boulevard, Tulsa, OK 74107
918-582-1980 (OMM, Family Medicine, Women’s Health, Take Charge! Program, Radiology)

OSU Physicians – Houston Center
717 S. Houston, Tulsa, OK 74127
918-586-4500 (Ob/Gyn), 918-382-5064 (Internal Medicine, IMSS, Cardiology), 918-382-4600 (Pediatrics)

OSU Physicians – Physicians Office Building (Behavioral Medicine and Family Medicine)
5310 E 31st St, Tulsa, OK 74135
918-236-4000 (Behavioral Medicine), 918-584-5364 (Family Medicine)

OSU Physicians – Physicians Office Building (Cardiology and Surgery)
802 S. Jackson, Tulsa, OK 74127
918-582-7711 (Cardiology), 918-584-5364 (Surgery)

OSU Physicians – Eastgate Metroplex
14002 E. 21st Street, Suite #1130, Tulsa, OK 74134
918-439-1500 (Family Medicine)

OSU Physicians – North Regional Health & Wellness
5635 N. Martin Luther King Jr. Blvd.
Tulsa, OK 74126
918-732-4686 (Family Medicine)
F. Admission Information
Prospective students must meet the requirements of OSU-COM’s Technical Standards Policy to be considered for admission to the Program.

Eligibility
Preference is given to applicants from Oklahoma. Non-U.S. citizens who do not have a permanent resident visa (“green card”) at the time of application cannot be considered for admission. The Student Selection Committee recommends applicants for admission. Final selection of candidates to be offered admission is made by the Dean. All applicants must meet the minimum requirements to be considered for admission.

Residency Requirements
To qualify for Oklahoma residency, a student must be a lawful resident of the United States and meet one of the following two requirements:

- Non-independent student: A non-independent student must have at least one parent, stepparent, or court-appointed guardian who is an Oklahoma resident. Additionally, this parent, stepparent, or appointed guardian must have claimed the student as a dependent on his/her federal income tax return for the previous year.
- Independent student: An independent student must have lived in Oklahoma, in some capacity other than as a full-time student at a post-secondary institution, for a period of at least twelve continuous months prior to matriculation.

Minimum Requirements
Minimum application requirements are as follows:

1. At the time of application, the applicant must have:
   a. Overall grade point average of 3.0 (on 4.0 scale);
   b. Pre-professional science grade point average (GPA) of at least 2.75 (on 4.0 scale); and
   c. Minimum of 492 on the Medical College Admissions Test (MCAT).

   *Only scores from the new MCAT will be accepted. MCAT must be taken within the last three years prior to application.

   Under special circumstances, the College of Osteopathic Medicine may use discretion to admit students who do not meet these minimum requirements.

2. At the time of entry, the applicant must have:
   a. At least three years (90 semester hours) and not less than 75 percent of the courses required for the baccalaureate degree at a regionally accredited college or university.
   b. Satisfactory completion of the following courses with no grade below “C” (2.0 on a 4.0 scale): English, 2 semesters; Biology, 2 semesters (including laboratory); Physics, 2 semesters; General Chemistry, 2 semesters; Organic Chemistry, 2 semesters.
   c. At least one upper division (3000-4000) level science course with no grade below “C” (2.0 on a 4.0 scale). Three to five upper division science courses are recommended for a competitive application. Examples include, but are not limited to Human Anatomy or Comparative Anatomy, Biochemistry, Microbiology or Molecular Biology, Histology, Cellular Biology, Embryology, and Physiology.
   d. An on-campus interview with the Interview Committee (by invitation only). Applicants invited for a personal interview must participate to qualify for further consideration. Interviews are conducted by clinical and basic science faculty members, adjunct faculty, and alumni. Interview results will be considered along with other data submitted in determining which applicants have demonstrated appropriate levels of scholarship, aptitude, and motivation for admission to the program.

   Scores from the MCAT must be on file before an interview will be granted (except in extraordinary circumstances). Applicants may obtain information through www.aamc.org.

Association of American Medical Colleges
Medical College Admission Test
2450 N St., NW
3. All applicants are required to complete a Computer-Based Assessment for Sampling Personal Characteristics (CASPer) to assist with the selection process. Successful completion of CASPer is mandatory in order to maintain admission eligibility. CASPer is an online test that assesses for non-cognitive skills and interpersonal characteristics that OSU-COM believes are important for successful students and graduates of its program. The test complements the other tools that OSU-COM uses for applicant screening. In implementing CASPer, OSU-COM is attempting to further enhance fairness and objectivity in its selection process. CASPer test results are valid for one admissions cycle. Applicants who have already taken the test in previous years are therefore expected to re-take it.

In order to take CASPer, applicants are responsible for securing access to a computer with audio capabilities, a webcam, and a reliable internet connection on your selected test date. CASPer can be taken practically anywhere that can satisfy the aforementioned requirements. No exceptions will be provided for applicants unable to take CASPer online due to being located at sites where internet is not dependable due to technical or political factors.

Admissions Options
The College also offers four additional admissions options: A 3+1 Program, a Guaranteed Interview Program, a Guaranteed Admissions, and a Bridge Program.

1) 3+1 Program
The 3+1 Program allows undergraduate students to complete the academic requirements for their bachelor’s degree and their doctor of osteopathic medicine degree in seven years instead of the traditional eight years. The 3+1 Program provides an academic plan for students to complete at the following universities: Oklahoma State University, Cameron University, East Central University, Langston University, Mid-America Christian University, Northwestern Oklahoma State University, Oklahoma State University, Rogers State University, Southeastern Oklahoma State University, Southwestern Oklahoma State University, and University of Central Oklahoma. Utilizing an approved academic plan at one of these universities, students complete three years at the university, and combined with the OSU-COM first year curriculum, will earn a bachelor’s degree. Students then progress through the second, third and fourth years of the curriculum to graduate with a Doctor of Osteopathic Medicine (D.O.) degree. For more information on the 3+1 Program, please visit our website: https://medicine.okstate.edu/com/admissions/three-one-program.html.

2) Guaranteed Interview Program
Through the Guaranteed Interview Program, OSU-COM seeks to admit students into the D.O. program who are well grounded in the biological and physical sciences and who display academic and personal skills required to be successful in our program. The Guaranteed Interview Program provides an academic plan for students to complete at the following universities: Oklahoma State University, Cameron University, Northeastern State University, Northwestern Oklahoma State University, Oklahoma City University, Oral Roberts University, Southeastern Oklahoma State University, Southwestern Oklahoma State University, and the University of Central Oklahoma. Students meeting the requirements described in the program are guaranteed an interview for admission to the College of Osteopathic Medicine. OSU-COM will interview and assess Guaranteed Interview Program applicants on their personal characteristics, academic preparedness, commitment to rural and underserved populations, and other factors based on the same standards as traditional applicants. For the undergraduate programs, students will typically complete four years of undergraduate coursework and then enter into the four year medical school program. More information on these programs can be found on our website: https://medicine.okstate.edu/com/admissions/guaranteed-interview.html.

3) Guaranteed Admissions Program
Purpose
The Guaranteed Admission Program is designed to provide alternative admission to students who have high-potential to succeed in the medical education program. The program provisionally accepts applicants to OSU-COM if they meet stated requirements when they are referred to complete the one-year OSU Graduate College Certificate in Medical Sciences after interviewing with OSU-COM. Students are recommended to the Guaranteed Admission Program based on information obtained through the OSU-COM application process, on-campus interview, personal characteristics and achievements, passion for medicine and letters of evaluation.

Requirements
Applicants admitted into the Guaranteed Admission Program must have completed a baccalaureate degree at a regionally-accredited college or university and have successfully completed the minimum coursework required of all
medical school admits. At the time of application, Guaranteed Admission students must have an overall GPA of 2.5 (on a 4.0 scale), a pre-professional science GPA of at least 2.5 (on a 4.0 scale), a minimum score of 483 on the MCAT. The MCAT must have been taken within the last three years prior to application.

Students admitted within this category shall receive access to student services and follow-up in such a manner to provide the necessary support mechanisms to increase their probabilities of success.

Application
Applicants to the Guaranteed Admission Program will follow application procedures and meet technical standards as stated in the Catalog for all students gaining entry into the College of Osteopathic Medicine. Applicants to the Guaranteed Admission Program are also required to meet the same citizenship/residency and prerequisite requirements for all students gaining entry into the College of Osteopathic Medicine.

Academic Requirements during the Certificate Program Year
Students accepted into the Guaranteed Admissions Program are granted admission to the College of Osteopathic Medicine if they complete the following requirements:

- Successfully interview with the COM and are accepted to the Guaranteed Admissions Program;
- Meet all requirements for successful completion of the Certificate in Medical Sciences within one year of matriculating in the program;
- Earn an A or B in each course in the Certificate in Medical Sciences Program and the Histology/Pathology course; and
- Provide evidence to the Admissions Committee prior to July 1st of the year in which they expect to matriculate to medical school of scoring a minimum of 498 on the Medical College Admission Test (MCAT).

If a participant enters the Guaranteed Admission Program with an MCAT score of 498 or higher, they are exempt from having to retake the MCAT provided the score was earned within three years prior to matriculation to medical school.

Students enrolled in the Graduate College with provisional acceptance to the College of Osteopathic Medicine must submit to a background check and drug screening at the time of acceptance and again prior to matriculating in the College of Medicine.

4) Bridge Program

Purpose
The Bridge Program is designed to provide an admissions pathway to students who have high-potential to succeed in the medical education program but with lower metrics and come from disadvantaged or medically underrepresented backgrounds or are pursuing medicine as a second career with a plan to practice primary care medicine in rural or underserved Oklahoma. The program provisionally accepts applicants to OSU COM after interviewing with the COM if they meet stated requirements when they are referred to complete the one-year OSU Graduate College Certificate in Medical Sciences. For this admissions program, students must demonstrate eligibility in one or more of the following categories:

- Economic disadvantage;
- Environmental/educational disadvantage;
- Underrepresented minority in medicine; or
- Pursuing medicine as a second career with an interest in practicing primary care medicine in rural or underserved Oklahoma.

In determining disadvantaged background status, the Office of Admissions considers the definition from the U.S. Department of Health and Human Services found at: https://nhsc.hrsa.gov/sites/default/files/NHSC/downloads/nhsc-disadvantaged-background-verification.pdf and income guidelines found at https://aspe.hhs.gov/poverty-guidelines. Priority for this program is given to Oklahoma residents.

Application
Applicants to the Bridge Program will follow application procedures and meet technical standards as stated in this Catalog for all students gaining entry into the College of Osteopathic Medicine. Applicants to the Bridge Program are also required to meet the same citizenship/residency and prerequisite requirements for all students gaining entry into the College of Osteopathic Medicine.

Students applying to the Bridge Program must demonstrate one or more of the following eligibility requirements:

1. Economic Disadvantage
   Guidelines to consider in determining disadvantaged status can be found at: https://nhsc.hrsa.gov/sites/default/files/NHSC/downloads/nhsc-disadvantaged-background-verification.pdf. Factors to consider include coming from a family with an annual income <200% of the Federal Poverty level.
Applicants will be expected to provide an explanation for claiming disadvantage in this area. All applicants must submit personal, parental, and/or guardian income tax returns for the year prior to matriculation.

2. Environmental/Educational Disadvantage
Guidelines to consider in determining disadvantaged status can be found at: https://nhsc.hrsa.gov/sites/default/files/NHSC/downloads/nhsc-disadvantaged-background-verification.pdf. While not an exhaustive list, factors to consider include:

- Being a first generation college student;
- Having graduated from a high school in a community of 7,500 or less;
- Having graduated from a high school where many students were eligible for free or reduced lunch prices;
- Having graduated from a high school with a low percentage of seniors having received a diploma;
- Coming from a school district where 50% or less of high school graduates pursue college; and
- Being from a family that received public assistance (e.g., public housing, Medicaid).

Applicants will be expected to provide an explanation for claiming disadvantage in this area.

3. Underrepresented Minority in Medicine
The American Association of Colleges of Osteopathic Medicine defines underrepresented minorities as including Hispanic/Latino ethnicity, Black/African American, Native American/Alaska Native, and Hawaiian/Pacific Islander.

4. Pursuit of medicine as a second career and interest in primary care and serving in rural/underserved Oklahoma

In recommending candidates for admission, the College considers all factors, including:

- Pre-professional academic achievement;
- Evaluations from pre-professional committees or faculty and osteopathic physicians;
- MCAT results;
- CASPer score;
- Personal motivation for a career in osteopathic medicine;
- Life experience/past career experience; and
- Data obtained during the on-campus interview and interactions.

Requirements
Applicants accepted into the Bridge Program must have completed a baccalaureate degree at a regionally-accredited college or university and have successfully completed the minimum coursework required of all medical school admits. At the time of application, Bridge students must have an overall GPA of 2.5 (on a 4.0 scale), a pre-professional science GPA of at least 2.5 (on a 4.0 scale), a minimum score of 483 on the MCAT. The MCAT must have been taken within the last three years prior to application.

Academic Requirements during the Bridge Year
Students accepted into the Bridge Program are granted provisional admission to the College of Osteopathic Medicine if they complete the following requirements:

- Successfully interview with the COM and are accepted to the Bridge Program;
- Meet all requirements for successful completion of the OSU Graduate College Certificate in Medical Sciences within one year of matriculating in the program;
- Earn an A or B in each course in the Certificate in Medical Sciences Program; and
- Provide evidence to the Admissions Committee prior to July 1st of the year in which they expect to matriculate to medical school of scoring a minimum of 492 on the Medical College Admission Test (MCAT). If a participant enters the Bridge Program with an MCAT score of 492 or higher, they are exempt from having to retake the MCAT provided the score was earned within three years prior to matriculation to medical school.

Students admitted within this program shall receive access to student services and follow-up in such a manner to provide the necessary support mechanisms to increase their probabilities of success.

Tuition and Fees
During the Bridge Program year in the Certificate Program, tuition may be waived, but fees will be paid by the student. Bridge students are eligible to apply for Federal Student Aid through the OSU Graduate College. The Office of Financial Aid and Scholarships in the OSU Graduate College can provide students with financial aid information and counseling.
Students enrolled in the Graduate College with provisional acceptance to the College of Osteopathic Medicine must submit to a background check and drug screening at the time of acceptance and again prior to matriculating in the College of Medicine.

5) Transfer Applicants / Admission with Advanced Standing
A transfer application may be considered depending on vacancies (if any) available in the class. Consideration will be given only to a student who is in good standing at an AOA-accredited college of osteopathic medicine at the conclusion of their pre-clinical coursework.

Applicants for transfer must submit the following to the Director of Admissions:
1. A written request, including the reason for the transfer;
2. A complete AACOMAS application, including all medical coursework completed and MCAT scores. A PDF of the AACOMAS application from the cycle in which the applicant was accepted to their current medical school may be submitted;
3. A complete supplemental application to OSU-COM, including a CASPer score;
4. Two letters of recommendation from faculty where the student last attended medical school; and
5. A letter from the applicant’s medical school indicating that the student is or was in good standing at the time of transfer or withdraw.

Medical coursework equivalent to that of Oklahoma State University must be completed up to the time transfer is sought. Consideration of the request will be based upon the applicant’s admissions qualifications and the number of vacancies (if any) that exist at that time. All complete requests for transfer must be received by the Director of Admissions by December 1 prior to the year in which the applicant wants to transfer. Following receipt of the required documents, the Director of Admissions will determine if the applicant warrants an on-campus interview. All transfer admissions will be made through the Student Selection Committee upon approval of the Dean. Applicants who are provisionally accepted to OSU-COM will have their acceptance conditioned upon providing the Director of Admissions with documentation that they have successfully passed the Comprehensive Osteopathic Medical Licensing Examination of the United States (COMLEX-USA) Level 1. No transfer applicant may be admitted without passing COMLEX-USA Level 1.

G. Technical Standards
The General Faculty of OSU-COM has established the academic requirements of the Osteopathic Medical Education Program with the goal of training graduates who have the knowledge and skills to function as osteopathic physicians in a broad variety of clinical situations and of providing a wide spectrum of patient care. The General Faculty of OSU-COM considers the Technical Standards of the Program to be essential capacities that students must possess to meet the academic requirements of the Program. As such, the Technical Standards are prerequisites for admission, continuation, promotion, and graduation. All candidates for admission must meet these Technical Standards to be admitted to the Osteopathic Medical Education Program of OSU-COM, and all students in the Program must continue to meet these Technical Standards throughout their enrollment as students in the Program.

Students with adequately documented disabilities will be allowed to meet the Technical Standards and/or fulfill the academic requirements of the Program using approved accommodations. Accommodations for disabilities are intended to provide students with disabilities with access to equal opportunities; they are not intended to assure success. All students must be able to meet the Technical Standards and fulfill the academic requirements of the Program in a reasonably independent manner with or without approved accommodations. No student may meet Technical Standards or fulfill academic requirements using auxiliary aids or accommodations that provide cognitive support or medical knowledge, substitute for essential clinical skills, or supplement clinical and ethical judgment.

The technical standards can be found at https://medicine.okstate.edu/com/admissions/technical-standards.html.

H. Application Procedure

College Application Service
The College of Osteopathic Medicine participates in the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS). Applicants using AACOMAS must be applying for the first year of study leading to the D.O. degree. Applications for admission may be obtained online at http://www.aacom.org after May 3. Application inquiries to AACOMAS may be made online or at:

The American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS)
5550 Friendship Blvd., Suite 310
Chevy Chase, Maryland 20815-7231
617-618-2889
Application Procedure
The following information is required by the College:
1. To be sent to ACOMAS:
   b. Complete official transcripts of scholastic records from all colleges and universities attended, including foreign transcripts that have been evaluated for U.S. equivalence by a U.S.-based evaluation service (see instructions below for Foreign Transcripts/Coursework). Required courses must be completed before matriculation.
   c. MCAT scores sent directly from the testing service. Requests for MCAT application forms and general information concerning the test should be directed to:
      Association of American Medical Colleges
      Medical College Admissions Test
      2450 N St., NW
      Washington, DC 20037
      Phone: 202-828-0690
      Email: mcat@aamc.org

2. Applicant must send the following to OSU College of Osteopathic Medicine:
   a. Supplemental application for admission.
   b. Supplemental application fee ($65).
   c. Letters of evaluation sent directly to the College from the applicant’s pre-professional/health professions advisory committee. If the applicant’s college lacks such a committee, applicants may substitute evaluations from two faculty members. Applicants may also submit letters to the College using Liaison, Interfolio, or Virtual Eval.
      i. Applicants without access to either of the above should use their own judgment in obtaining at least two evaluations that would be helpful in judging their candidacy.

The deadline to submit ACOMAS applications for 2021 – 2022 admission is February 28, 2022. The deadline to submit supplemental applications for admission is March 30, 2022. Applicants are encouraged to submit materials early for full consideration. Interviews are conducted approximately August – April. Discovery of any intentional falsification or omission of information relative to academic and personal records or test scores may result in the student’s immediate dismissal from the College and forfeiture of all fees paid. In recommending candidates for admission, the College considers all factors, including pre-professional academic achievement, evaluations from pre-professional committees and osteopathic physicians, results of the MCAT, results of CASPer test, data obtained in the on-campus interview, and the student’s motivation for a professional career in osteopathic medicine. Applicants receiving an invitation for admission must sign an Admissions Agreement and return it with the required deposit to the Admissions Office within the specified time to complete the application process. For additional information, contact the Office of Enrollment Management at 918-561-8324, 800-677-1972, or osucomadmissions@okstate.edu.

Foreign Transcripts/Coursework
The COM will only accept credit for foreign coursework that has been evaluated by a U.S. evaluation service, when that evaluation report indicates that the coursework was similar to coursework taken at an institution that is comparable to a regionally accredited college or university in the U.S. As such, any coursework taken at a foreign institution must undergo evaluation for U.S. equivalence by one of the evaluation services accepted by ACOMAS. Prospective students can review the foreign evaluation services listed by ACOMAS as of July 1, 2019 at https://help.liaisonedu.com/ACOMAS_Applicant_Help_Center/Sending_Your_Official_Transcripts_and_Test_Scores_to_ACOMAS/Sending_Official_Transcripts_to_ACOMAS/2_Foreign_and_French-Canadian_Transcripts. Applicants should request that an official copy of the evaluation report be sent directly to ACOMAS from the evaluation service. OSU-College of Osteopathic Medicine will not accept student copies of an evaluation or transfer credit that appears on a U.S. transcript. Applications will not be considered complete without an official course-by-course evaluation.

Prior to matriculation, accepted students will be required to submit a copy of the evaluation report to the Admissions Office for the student’s file. The Admissions Office will review the file to ensure that the required process has been completed.

1. Student Health Status

Physical Examination
Each student entering OSU College of Osteopathic Medicine is required to have a physical examination completed and recorded on a health form provided by the College prior to matriculation.
Immunizations and Tuberculosis Testing
Entering students are required to provide evidence prior to matriculation of immunization for or immunity to tetanus Tdap within the last 10 years, polio, measles, mumps, rubella, varicella, hepatitis A, and hepatitis B. If the immunization series have not been completed prior to matriculation, they must be completed during the first year at the student’s expense. Any series must be started prior to matriculation. Students must also provide evidence of a 2-step TST Tuberculosis test done within the last year prior to matriculation.

Health and Hospitalization Insurance
All students are required to maintain an active health insurance policy while enrolled at the OSU College of Osteopathic Medicine. Students are required to provide proof of insurance within 60 days of matriculation, and they are required to maintain it throughout their course of study. Students are required to provide and pay for their personal coverage. Insurance information and applications may be obtained from the Office of Student Life and/or the OSU Medical Clinic.

J. Tuition & Fees
Tuition and fees are approved by both the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges and the State Regents for Higher Education and are subject to change only after consideration in public meetings of those bodies. Tuition and fees must be paid prior to the first day of each semester. Tuition and fees are charged annually based on a student’s year in medical school.

Tuition
- Oklahoma Residents $ 25,796.60
- Nonresidents $ 53,298.56

Fees
First Year Students
- Student Activity Fee $ 185.22
- Clinical Skills Equipment Fee $ 270.00
- Student Health Fee $ 128.00
- Student Wellness Fee $ 175.00
- Student Union Fee $ 120.00
- Academic Records Fee $ 80.00
- Student Technology Services Fee $ 250.00
- Laboratory Fee $ 330.00
- Library Automation and Materials Fee $ 360.00
- Board Exam Preparation Fee $ 500.00
- Security Services Fee $ 144.00
- Student Facility Fee $ 365.00
- Student Malpractice Insurance Fee $ 125.00
- Academic Services Printing Fee $ 55.00

Second Year Students
- Student Activity Fee $ 185.22
- Clinical Skills Equipment Fee $ 270.00
- Student Health Fee $ 128.00
- Student Wellness Fee $ 175.00
- Student Union Fee $ 120.00
- Academic Records Fee $ 80.00
- Student Technology Services Fee $ 250.00
- Laboratory Fee $ 220.00
- Library Automation and Materials Fee $ 360.00
- Board Exam Preparation Fee $ 500.00
- Security Services Fee $ 144.00
- Student Facility Fee $ 365.00
- Student Malpractice Insurance Fee $ 125.00
- Academic Services Printing Fee $ 55.00

Third Year Students
- Library Automation and Materials Fee $ 360.00
- Student Activity Fee $ 185.22
• Student Health Fee $ 128.00
• Student Technology Services Fee $ 250.00
• Student Malpractice Insurance Fee $ 125.00
• Board Exam Preparation Fee $ 500.00
• Security Services Fee $ 144.00
• Student Facility Fee $ 365.00
• Clinical Rotation Fee $ 300.00
• Clinical Skills Equipment Fee $ 270.00
• CHS Student Wellness Fee $ 175.00

Fourth Year Students
• Board Exam Preparation Fee $ 500.00
• Library Automation and Materials Fee $ 360.00
• Student Activity Fee $ 185.22
• Student Health Fee $ 128.00
• Student Technology Services Fee $ 250.00
• Student Malpractice Insurance Fee $ 125.00
• Graduation Fee $ 40.00
• Security Services Fee $ 144.00
• Student Facility Fee $ 365.00
• CHS Student Wellness Fee $ 175.00
• Clinical Skills Equipment Fee $ 270.00
• Clinical Rotation Fee $ 300.00

Tuition and Fees are subject to change.

Admission Deposit
Upon acceptance, applicants must deposit $100.00 which is applied toward first-term fees. This admission deposit is subject to forfeiture after April 15 if enrollment is not completed. In order for a student to be enrolled, tuition and fees must be paid or proof of payment must be established.

Student Health Service Fees
This fee does not replace the requirement for students to obtain health insurance coverage. Students seeking health services must make an appointment with an OSU physician and follow the normal check-in procedures for patients.

The following are covered under the student health fee:
• Flu shots;
• Immunizations needed after matriculation due to non-immune titer results;
• Follow up immunizations if titer show not immune;
• Annual TB screening; and
• Lab tests or treatment following an inadvertent needle stick or exposure during the course of training. Please see the following link for policy related to needle sticks: https://medicine.okstate.edu/site-files/documents/clinical-education/2020-handbook.pdf.

The following services are not covered by the fee and will be the responsibility of the student and/or his or her insurance:
• Sick and preventative care visits;
• Any service provided by non-OSU Physicians, unless approved by the Safety Manager or Human Resources;
• Specialty care, procedural fees or hospitalization, unless related to an exposure during training;
• Fees associated with a pregnancy;
• Prescriptions and over-the-counter medications;
• Laboratory tests (other than for needle stick accidents, exposures, or titers);
• Radiology services, unless required due to training exposure; and
• Supplies (crutches, etc.).

Books and Supplies
For financial aid purposes, OSU estimates that the cost of books and supplies during the first year of study will be $4,000. For the second year of study, OSU estimates books and supplies will be $3,000. During the third year of
study, OSU estimates books and supplies will be $1,000. For the fourth year of study, OSU estimates books and supplies will be $600.

Student Refund Policy
When a student takes a leave of absence or withdraws, OSU-COM will generally follow the refund schedule for tuition and fees outlined in the Catalog. However, OSU-COM may adjust tuition and fee charges for a student who takes a leave of absence or withdrawal during their 3rd or 4th years of medical school. Please refer to the Leave of Absence and Withdrawal Policy for more information: [https://medicine.okstate.edu/com/academics/policies.html](https://medicine.okstate.edu/com/academics/policies.html).

K. Student Health and Behavioral Health Services

Student Health
All students have access to diagnostic, preventive, and therapeutic health services 24 hours a day, 365 days a year, accessible in all locations where students receive education from OSU-COM through virtual medical consultations from Ascension Health. If the student is located in a state where Ascension does not have a licensed provider, Ascension will direct the student to the nearest emergency room or urgent care in order to receive care.

For students in Tulsa, the OSU Health Care Center is located just a short distance from the main campus at 2345 Southwest Boulevard, Tulsa, Oklahoma and can be reached at 918-582-1980. For an office visit, students must make an appointment with an OSU physician and follow the normal check-in procedures for patients. Please see the section above on services covered under Student Health Service Fees. For additional information regarding services or to schedule a visit with the Occupational Health Nurse, call 918-561-1256.

For students in Tahlequah, The Ga-Du-Gi Health Center is located within walking distance of the OSU-COM Cherokee Nation campus at 16944 W Cherokee Way, Tahlequah, Oklahoma. Please see the section above on services covered under Student Health Service Fees. For an office visit, students may contact the clinic at 918-207-4911.

Behavioral Health
All students have access to confidential counseling services through Guidance Resources and the OSU-Tulsa Counseling Center. Information about these services can be found at [https://ostatemailokstate.sharepoint.com/_forms/default.aspx](https://ostatemailokstate.sharepoint.com/_forms/default.aspx).

OSU CHS Counseling Services
One-on-one confidential counseling sessions located on campus for students. Students can schedule appointments (office or telehealth) at [https://chscounselingservices.as.me](https://chscounselingservices.as.me). To contact OSU-CHS Counseling Services, please call 918-561-1822.

Crisis Text Line
Text HELLO to 741741 to receive help from the Crisis Text Line on the same day. The Crisis Text Line serves anyone, in any type of crisis, providing access to free, 24/7 support and information via a medium people already use and trust: Text.

Guidance Resources / 866-519-8354
Guidance Resources offers solutions to work life integration, 24/7 phone counseling, and access to 10 free in-person counseling sessions for students in your area. For more information, please visit Guidance Resources' website at [guidanceresources.com](http://guidanceresources.com) (use Student Web ID: OKSTATESAP).

OSU-Tulsa Counseling Center
The OSU-Tulsa Counseling Center is available to see students and residents for five free counseling sessions. Additional sessions are $10/per session. Appointments can be set by calling 918-594-8568. The OSU-Tulsa Counseling Center is located on the OSU-Tulsa campus at 700 N. Greenwood in Main Hall room 2419.

Community Resources
There are also a variety of community resources, which students may wish to access independent of the services provided by OSU-COM. A listing of community resources can be found at [https://ostatemailokstate.sharepoint.com/sites/OSU-CHS/SitePages/Behavioral%20Health.aspx](https://ostatemailokstate.sharepoint.com/sites/OSU-CHS/SitePages/Behavioral%20Health.aspx).

L. Financial Aid

OSU–COM in Tulsa: Campus Address and Phone
Oklahoma State University Center for Health Sciences
Students who need financial assistance are encouraged to consider the many types of financial aid available through the OSU Center for Health Sciences Office of Scholarships and Financial Aid. These programs include scholarships, loans, and work-study.

**Scholarship Programs**

Oklahoma State University Center for Health Sciences annually offers scholarships to qualifying students each year. OSU-CHS scholarships are awarded on the basis of academic achievement, academic potential, leadership, community service, and financial need, among many factors. Many scholarships are based on a preference for rural and/or primary care careers.

**Federal Aid Programs**

Federal aid at OSU-CHS is awarded on the basis of demonstrated financial need. Each student who wishes to be considered for federal aid should submit the Free Application for Federal Student Aid (FAFSA) prior to June of the academic year in which they are enrolling. Students can apply for assistance by submitting the FAFSA electronically at [www.fafsa.ed.gov](http://www.fafsa.ed.gov).

The following is a list of federal aid programs available at OSU CHS:
- Federal Work-Study;
- Federal Direct Unsubsidized Loan; and
- Federal Direct Graduate PLUS Loan.

The OSU College of Osteopathic Medicine publishes the most recently available data for its graduate loan default rate and average debt load. To view this information, please visit: [https://medicine.okstate.edu/com/financial-aid/average-student-debt.html](https://medicine.okstate.edu/com/financial-aid/average-student-debt.html).

**Return of Title IV Funds Policy**

The OSU-CHS Office of Financial Aid, in accordance with federal regulations, calculates the return of Title IV Funds for any student who receives Title IV aid and subsequently withdraws before the end of the enrollment period/term. The full return of funds policy is available at [https://medicine.okstate.edu/site-files/documents/com/financial-aid/osucom-refund-policy.pdf](https://medicine.okstate.edu/site-files/documents/com/financial-aid/osucom-refund-policy.pdf).

**Satisfactory Academic Progress for Financial Aid Eligibility**

Students enrolled in the College of Osteopathic Medicine must show satisfactory academic progress to remain eligible for financial aid. Students who have completed all coursework towards a degree but who have not yet passed their Comprehensive Osteopathic Medical Licensing Examination (COMLEX) Level 2 will not be eligible for financial aid through the OSU College of Osteopathic Medicine. A copy of the policy detailing financial aid requirements is available at [https://medicine.okstate.edu/site-files/documents/com/financial-aid/osucom-sap-policy.pdf](https://medicine.okstate.edu/site-files/documents/com/financial-aid/osucom-sap-policy.pdf).

**VA Benefits**

Students wishing to apply for Veteran’s benefits should contact the campus School Certifying Official: [https://medicine.okstate.edu/com/registrar/index.html](https://medicine.okstate.edu/com/registrar/index.html). Students utilizing Veterans Administration (VA) benefits for school must submit all prior transcripts and training records to be evaluated for prior credit, whether or not prior credit is granted. Students receiving benefits may be in debt to the VA for early dismissal or withdrawal from courses.
Military Leave/Call Up

Active Military Duty
Per Oklahoma state law (SB 1830), OSU offers a military leave of absence (MLOA) to students who are members of the active uniformed military services of the United States who are called to active duty. An MLOA allows a student to be absent from the University for active duty without penalty to admission status or grade point average and without loss of institutional financial aid. It also allows the student to be eligible for withdrawal from all or some classes with a full refund of tuition and fees or to be eligible for incomplete grades in classes for which he/she has successfully completed at least 50% of the coursework at the time of leave, if the student intends to complete the classes upon return from active duty. MLOAs shall not exceed a cumulative five years. Graduate student LOAs are for a period of one year with annual extensions possible up to the five-year cumulative limit. Students apply for MLOA by submitting the appropriate form and supporting documentation. See OSU Military Leave of Absence FAQs for more information: https://registrar.okstate.edu/FAQ-Military-Leave. If time allows, contact the Veterans Benefit Services office to inform them of your pending activation. Notification will be made to the Veterans Administration and education benefits will be placed in a pending status. You will not be required to repay benefits previously received for the term in which you are activated.

Short-Term Military Leave
If you will miss classes for short-term military leave or military training exercises, (e.g., annual training for National Guard and Reserve members) please contact your instructors as soon as you become aware of this so that any appropriate accommodations can be made between you and the instructor.

Benefits are terminated immediately the day of leave, and may start up again upon return

For College of Osteopathic Medicine students, military obligations that conflict with matriculation will take two forms:

1. A military commitment that arises before the student matriculates in the D.O. program. In this case, a deferred admission will be negotiated.

2. A military commitment that arises during matriculation. In this case, the student requests a leave of absence, and the circumstances of return to the professional program will be negotiated and documented according to OSU-COM policy. Due to the “once a year” design of most of the D.O. curriculum, it may not be possible to return to the curriculum immediately after completing military duty.

M. Financial Responsibility
A monthly electronic billing statement is generated on the last business day of every month detailing charges and payments that occurred during that month on a semester timeframe. The statement notification is emailed to the student’s okstate.edu email address at the beginning of each month. Payment is due no later than the 15th of each month. It is the student’s responsibility to check his or her individual bursar account to verify that university-administered scholarships and waivers, as well as external scholarships, have been credited to the account. Billing statements can be viewed online and paid online at http://prodosu.okstate.edu. Failure to receive a bill does not relieve the student from financial obligation, or from any late charges or other penalties that may occur on past due accounts. All past due accounts accrue a penalty at the rate of 1.5% monthly.

By sending a check as payment, the student authorizes Oklahoma State University to clear his or her check electronically. The student’s checking account may be debited on the same day payment is received. The electronic transaction will appear on the corresponding bank statement although the check itself will not be presented to the financial institution or returned to the student. Any resubmission due to insufficient funds may also occur electronically. Please be aware that all checking transactions will remain secure and payment by check constitutes acceptance of these terms.

Accounts must be cleared before the student can obtain the release of any academic records such as a transcript, receive a diploma, or enroll for subsequent semesters. Any charges incurred by the university in an effort to collect on delinquent accounts will be assessed to and will be the responsibility of the account holder. Delinquent account information is disclosed to credit reporting agencies, which could endanger the student's credit rating on a local or national level. Past due accounts may receive payment from the warrant intercept program (WIP) which captures state income tax refunds to pay outstanding OSU debt.

N. Student Information & Academic Regulations

Academic Standards
Evaluation of achievement in a given subject is the official responsibility of the assigned instructor. Grading of achievement is based upon predetermined criteria that are announced to the students at the beginning of each course. For details regarding academic policies, please refer to the Academic Standards Handbook. The Handbook
and additional policies, including the student travel policy, can be found at https://medicine.okstate.edu/com/academics/policies.html and in the Office of Academic Affairs.

**Academic Grading System**
The grading standard for all College courses is a numerical system ranging from 0 to 100 percent, with 70 percent as the lowest passing grade except for courses designated as pass/fail. Guidelines describing the method and factors involved in determining numerical grades will be presented in the course syllabus for each course.

**Meaning of Grades and Grade Points**
Grades will be awarded based on factors listed in the course syllabus, including class preparations, class attendance and participation, examination scores, and personal and professional conduct.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Points</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>4</td>
<td>Excellent (numerical range 90-100%)</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3</td>
<td>Good (numerical range 80-89%)</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>Satisfactory (numerical range 70-79%)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>Marginal (numerical range 65-69%)</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>0</td>
<td>Unsatisfactory (numerical range 64 and below)</td>
<td>Graduate</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>Unsatisfactory (numerical range 64 and below)</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>0</td>
<td>When a student meets criteria defined by each clerkship department for Pass with Honors (see clerkship syllabi)</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>0</td>
<td>When a student passes the clerkship evaluation and COMAT</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>When a student meets two or more evaluation failure criteria (see Clerkship Handbook) based on performance at rotation site and on OSU departmental requirements</td>
<td></td>
</tr>
<tr>
<td>F!</td>
<td></td>
<td>Academic Dishonesty</td>
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<tr>
<td>SR</td>
<td></td>
<td>Satisfactory Research</td>
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<tr>
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<td>Satisfactory</td>
<td></td>
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<tr>
<td>I</td>
<td>0</td>
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<td>Audit</td>
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<tr>
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<td>Withdrawal</td>
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<tr>
<td>WP</td>
<td>0</td>
<td>Withdrawal in good academic standing</td>
<td></td>
</tr>
<tr>
<td>WU</td>
<td>0</td>
<td>Withdrawal not in good academic standing</td>
<td></td>
</tr>
</tbody>
</table>

A cumulative grade point average will be maintained for each student to be calculated as follows:
- The total number of credit hours attempted for which a permanent grade has been assigned (A, B, C, D, U, or F) will be divided into the total grade points earned.
- The total grade points earned is the sum of the grade point for each course multiplied times the number of course hours.

**Course Evaluation and Grade Posting**
Each student has a responsibility as a professional to provide constructive evaluation of each course, clinical rotation, and instructor in the curriculum. In the first and second years, this responsibility will be met by participation in the course evaluations routinely administered by the Office of Academic Affairs. For third and fourth year, the Site Evaluation Form is considered a requirement for each clinical rotation. The Site Evaluation Form is due within seven days of completing each clinical rotation. Failure to comply with the Site Evaluation deadline can result in being dropped a grade for the rotation, having to repeat the rotation, or receiving an “N” non-cognitive grade.

**Class Ranking**
While the Grade Point Average (GPA) is calculated as above, class ranking and academic awards are based on numeric grades. Class rank does not include any pass/fail courses or optional electives. Rank is calculated based on the numeric grade earned multiplied by the credit hours in each course. Two different rank groups are calculated for classes prior to the Class of 2024: One for students completing their medical school curriculum within the traditional 4 years and a second one including students completing their medical school curriculum in more than 4 years. Class rank is finalized at the end of the MS-II year, after which all Clinical Rotations are graded pass/fail. Because transfer students do not take the same 1st and 2nd year curriculum as the rest of their class, they are not ranked.

**Dean’s List**
Students in the first and second years of medical school who rank in the top 20% of the class are named to the Dean’s List. This award is based on the cumulative class ranking each semester in the MS-I and MS-II years.
Remediation Services are designed to assist students in meeting the academic and professional requirements for satisfactory progress in the standard curriculum. See the Academic Standards Handbook and the Student Handbook for more information: https://medicine.okstate.edu/com/academics/policies.html.

Non-Cognitive Academic Evaluation
Students are expected to conduct themselves in a manner consistent with the standards of the osteopathic medical profession. This expectation is embodied in the Requirements for Graduation, “that the student exhibits the ethical, professional, behavioral, and personal characteristics necessary for the practice of osteopathic medicine.” A non-cognitive academic evaluation of S (satisfactory) or N (needs improvement) is assigned in every course and rotation. Refer to the Academic Standards Handbook for details.

Promotion and Probation
Normal progression through the curriculum requires that there be no “D,” “I,” “U,” or “F” grades. Achievement of this standard in each academic year is, therefore, required for promotion to the next academic year. This standard must also be met before third year students can begin clinical clerkship rotations and fourth year students can graduate.

The academic standards for successful completion of each course or clinical rotation are determined by the Course Director/Coordinator. The student has the primary responsibility for acquiring knowledge and clinical proficiency, and for meeting the academic standards set for each course or program. The College does not guarantee that any student, once enrolled, will achieve any level of academic accomplishment.

The academic progress of students will be reviewed by the Academic Standards Committee throughout the year each year. Review of students’ progress by the Committee is necessary to ensure that students meet the minimum College standards, and thus, remain in good academic standing. Students earning “D,” “U,” or “F” grades are not considered to be in good academic standing and will be placed on academic probation.

Promotion
Promotion is defined as progression from one academic year to the next. A student will be recommended for promotion to the Dean by the Academic Standards Committee. A student will not be recommended for promotion if they have academic deficiencies or “D,” “U,” “I,” or “F” grades. All students enrolled in the D.O. program must take the timed Level 1 and Level 2 Comprehensive Osteopathic Medical Self-Assessment Examination (COMSAE) offered by the National Board of Osteopathic Medical Examiners (NBOME). A student may not be promoted to the third year of study without passing the COMLEX Level 1. Customarily, the results are not available until the first of August. Therefore, second year students will be allowed to begin third year rotations with provisional status after taking COMLEX Level 1. Upon receipt of a passing COMLEX Level 1 score, students will be formally promoted to the third year.

Probation
Probation represents an official sanction by the College for unacceptable academic performance. Probation is a period of time during which the student’s progress will be closely monitored by the Academic Standards Committee and the Dean or his/her designee.

A student placed on academic probation will be notified in writing by the Dean and the reasons will be stated. The notification will be delivered to the student by U.S. mail and college email. Copies of the letter will be placed in the student’s permanent file and distributed to the Chair of the Academic Standards Committee. The duration of academic probation will be determined by the Dean in consultation with the Academic Standards Committee.

A student on probation will not be allowed to participate in student government or extracurricular activities for the duration of the probation. Exceptions may be attendance at local health fairs. Attendance at these activities will be with approval from the Dean. The student on probation is required to meet with his/her faculty mentor on a monthly basis.

For more information on Promotion and Probation, please consult the OSU Center for Health Sciences, College of Osteopathic Medicine Academic Standards Handbook.

Requirements for Graduation
From the date of matriculation, a D.O. student shall be granted no more than six years to complete the requirements for graduation. D.O./Ph.D. and D.O./M.S. students shall be granted no more than nine and seven calendar years, respectively, to complete all requirements. Requests for additional time must be approved by the Dean. A student who has satisfactorily completed all academic requirements and who has been recommended by the College faculty may be awarded the Doctor of Osteopathic Medicine (D.O.) degree, provided the student has:

1. No un-remediated “D,” “U,” or “F” grades and no grades of “I;”
2. Satisfactorily completed all clinical rotations;
3. Complied with all legal and financial requirements of the College;
4. Exhibited the ethical, professional, behavioral, and personal characteristics necessary for the practice of osteopathic medicine;
5. Demonstrated acceptable competence in the knowledge, skills, and attitudes required of an osteopathic physician;
6. Passed COMLEX-USA Level 2, both cognitive (CE) and performance (PE) (if reinstated);
7. Been recommended for graduation by the faculty and appropriate College bodies;
8. Attended the commencement ceremony (only in unusual circumstances and with prior approval of the Dean will a degree be awarded in absentia); and
9. Met the graduation requirements listed in the Academic Standards Handbook.

Medical students who expect to graduate in May but have not yet completed all the requirements for the D.O. degree are expected to do so in a timely manner after the graduation date. These requirements include passage of COMLEX-USA Level 2-CE and COMLEX-USA Level 2-PE (if reinstated) exams, submission of all clinical rotation evaluations, and meeting any conditions to be removed from academic probation (if applicable). Students who have not completed all rotations, submitted all required evaluations, met all conditions for probation removal, or passed the required COMLEX-USA exams by September 1st following the May graduation date will be awarded their degree on the date that requirements are met. It is the responsibility of students who are completing make-up rotations, working with preceptors to obtain outstanding rotation evaluations, or studying for the COMLEX-USA exam to maintain communication with the Office of Clinical Education and the Registrar in the Office of Enrollment Management regarding their progress toward completion of degree requirements. Students on academic probation should be in contact with Academic Affairs to be sure all conditions for removal of probation have been met. Students who are expected to complete all graduation requirements by October 31 may walk with their class in May. Students who are expected to finish all graduation requirements after October 31 will walk with the next graduating class the following May. At any time a student may be asked to meet with an administrator or the Academic Standards Committee if there is concern regarding the student’s progression towards completing graduation requirements in a timely manner.

Leave of Absence Policy

Overview
The purpose of a leave of absence is to allow for a pre-approved, temporary interruption of a student’s academic progress due to significant reasons that are out of a student’s control. Reasons for a leave of absence may include, but are not limited to, academic performance, board exam readiness, medical concerns, or personal reasons.

General Provisions
A student who applies for a leave of absence from OSU-COM is responsible for all academic work scheduled up to the official date of the voluntary leave of absence determined by the Senior Associate Dean. In extraordinary circumstances, the Senior Associate Dean may excuse the student from academic responsibilities prior to the official date of the voluntary leave of absence.

Time spent in leave(s) of absence for up to 18 months is not counted toward the normal limit of six years that a student has to complete the D.O. program. Any student whose leave(s) of absence, for any reason, cumulatively exceeds 18 months will be withdrawn from OSU-COM and must apply for readmission through the traditional admission process pursuant to OSU-COM’s policy on withdrawal.

For enrollment and financial aid purposes, all leaves of absence will be processed as withdrawals beginning with the official date of the leave of absence. Students who take a leave of absence may lose their tuition and fees for the term based on the refund dates and percentages listed in the College Catalog. The use of the term withdrawal in this section does not constitute a withdrawal from OSU-COM under OSU-COM’s policy on withdrawal unless the leave of absence cumulatively exceeds 18 months.

Any disciplinary proceeding(s) pending against a student at the time the student’s leave of absence is approved may be stayed or may continue upon the discretion of OSU-COM. A student on leave of absence will not be considered an enrolled student and will not be permitted to participate in any educational activities or clinical assignments.

A student who takes a leave of absence or withdrawal that is six (6) months or longer is required to complete a drug screen prior to returning to educational activities and/or clinical rotations. Testing cost will be borne by the student and testing will be done in accordance with the procedures outlined in the OSU-COM Drug Screening Policy.
Voluntary Leave Requests
To initiate a leave of absence from OSU-COM, a student must submit a fully executed Student Request for a Leave of Absence or Withdrawal (available on the OSU-COM website and in Enrollment Management) to the Assistant Dean for Enrollment Management. Students who are requesting a leave of absence and need access to OSU services during their leave will also need to submit a copy of their Social Security card. For a leave of absence for medical reasons, the request must also be accompanied by a letter from a physician or treating mental health provider, describing the nature of the illness for which the leave is requested and the estimated length of time needed for recovery.

The Senior Associate Dean will decide in his or her discretion and based upon satisfactory justification whether to approve a leave of absence request. Before seeking approval and a signature from the Senior Associate Dean, the Request must be signed by the Manager of Clinical Education (when the student has completed preclinical curriculum), the Manager of Financial Aid, the Director of Student Success, the Associate Dean of Academic Affairs, and the student. The Senior Associate Dean will approve the request by signing the form, which must include starting and ending dates for the leave. After obtaining approval from the Senior Associate Dean, the student will submit the form to the Assistant Dean for Enrollment Management for final verification and to process the request.

Return from Leave of Absence
Before a student may return to educational activities following a leave of absence, the student must submit a fully executed Return from Leave of Absence Form to the Assistant Dean for Enrollment Management prior to the ending date of the applicable leave of absence. Students requesting to return from a leave of absence for medical reasons must submit a letter from a physician or treating mental health provider stating that the student has recovered from the illness leading to the leave of absence and meets OSU-COM’s Technical Standards (with or without accommodation) with the written request.

The Senior Associate Dean will decide in his or her discretion and based upon satisfactory justification whether to approve the request. Before seeking approval and a signature from the Senior Associate Dean, the request must also be signed by the Manager of Clinical Education (when the student has completed preclinical curriculum), the Manager of Financial Aid, the Director of Academic Success, the Associate Dean of Academic Affairs, and the student. After obtaining approval and a signature from the Senior Associate Dean, the student will submit the form to the Assistant Dean for Enrollment Management for final verification and to process the request.

If the Senior Associate Dean approves the request, he or she will determine the student’s placement within the curriculum. A leave of absence during Year 1 or 2 generally requires that the student repeat the academic year in which he or she was enrolled at the time of the leave. A leave of absence during Year 3 or 4 generally requires that the student resume the rotation schedule where he or she initiated the leave of absence.

Students who take a leave of absence after having completed their pre-clinical curriculum must maintain their knowledge and clinical skills while they are on the leave. Before returning to the program to resume rotations, the student must comply with the requirements in the Academic Standards Handbook with regard to passing COMLEX exams and verify with the Office of Clinical Education that he or she has met the following requirements:

- Participated in Transition Week;
- Holds active Advanced Cardiac Life Support and Basic Life Support certification;
- Is current on required immunizations and examinations as confirmed by the Student Health Nurse;
- Is resuming rotations at the same point that he or she began the Leave of Absence; and
- Has completed the following within the prior twelve months:
  - Approved background check;
  - Approved drug screen;
  - Mask-fitting;
  - Health Insurance Portability and Accountability Act training; and
  - Electronic health record system training.

Requests for Additional Leave
If a student is unable to return to educational activities by the ending date of an approved leave of absence, the student must submit a new written request to the Senior Associate Dean for the additional leave of absence prior to the ending date of the applicable leave of absence. The request must follow each of the requirements applicable to leave requests set forth in this policy, including the submission of a new letter from a physician or treating mental health provider, if applicable, as the request for an additional leave is considered a new request.

Failure to Contact the Assistant Dean for Enrollment Management
Any student who fails to contact the Assistant Dean for Enrollment Management prior to the ending date of the approved leave of absence may be subject to disciplinary action, including dismissal.
Withdrawal Policy

Overview
Students may decide that they no longer wish to continue their medical education at OSU-COM. Should a student determine that he or she wants to withdraw from OSU-COM, the student must adhere to the following policies and procedures.

General Provisions
To initiate a withdrawal from OSU-COM, a student must submit a fully executed Student Request for a Leave of Absence or Withdrawal (available on the OSU-COM website and in the Office of Enrollment Management) to the Assistant Dean for Enrollment Management. The student must submit the request in advance, unless extraordinary circumstances prevent the student from doing so.

The Senior Associate Dean will decide in his or her discretion and based upon satisfactory justification whether to approve a withdrawal request. Before seeking approval and a signature from the Senior Associate Dean, the Request must also be signed by the Manager of Clinical Education (when the student has completed preclinical curriculum), the Manager of Financial Aid, the Director of Student Success, the Associate Dean of Academic Affairs, and the student. To complete the form, the student must settle all outstanding financial obligations and complete financial aid exit counseling, if applicable. The Senior Associate Dean will approve the request by signing the form, which must include a starting date for the withdrawal. After obtaining approval from the Senior Associate Dean, the student will submit the form to the Assistant Dean for Enrollment Management for final verification and to process the request. The Assistant Dean for Enrollment Management will obtain the student’s badge and terminate access to college resources.

At the time a withdrawal is granted, the Registrar will make an entry on the official permanent record indicating the academic standing of the student. "Withdrawal (WP), in good standing," will be recorded if the student is not on academic probation and has received no course grades or averaged examination grades less than 70% during the semester in which the withdrawal is requested. "Withdrawal (WU), not in good academic standing," will be recorded if the student is on academic probation or has received course grades or averaged examination grades less than 70% during the semester in which the withdrawal is requested.

Any student who does not complete this process for voluntary withdrawal will not be entitled to an official withdrawal and consequently will not be considered for readmission at a later date. Readmission following withdrawal is not assured. Following withdrawal, a student must submit an application for readmission through the traditional admission process unless extraordinary circumstances exist that OSU-COM may consider in readmitting a student outside of the traditional admission process.

Refund Policy

Students who take a leave of absence or withdrawal during a semester may be required to refund financial aid dollars based on federal law. This possibility is one of the reasons students are required to meet with the Director of Financial Aid when requesting a leave of absence or withdrawal. The student and the Director of Financial Aid will discuss the impact of the student’s decision on student loans and scholarships (if applicable).

When a student takes a leave of absence or withdrawal during the clinical years, OSU-COM will generally follow the refund schedule for tuition and fees outlined in the Catalog. However, OSU-COM may adjust tuition and fee charges for a student who takes a leave of absence or withdrawal during their 3rd or 4th years of medical school. OSU-COM will calculate the tuition and fees that may be refunded to a student who takes a leave of absence or withdrawal during the clinical years according the following schedule, which is based on the number of rotations the student has completed:

<table>
<thead>
<tr>
<th>Number of Rotations Completed</th>
<th>Percentage of Tuition and Fees Refunded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>83.33%</td>
</tr>
<tr>
<td>2</td>
<td>66.67%</td>
</tr>
<tr>
<td>3</td>
<td>50.00%</td>
</tr>
</tbody>
</table>

OSU-COM will not adjust tuition and fee charges for students who complete four (4) or more rotations during a semester during the clinical years. Regardless of the percentages listed in the table above, OSU-COM will charge each student a minimum of $1,000 for fees per semester to cover the costs it incurs and recoups via fees.
If a student who has taken a leave of absence or withdrawal returns and re-enrolls at OSU-COM during the clinical years, OSU-COM may adjust tuition and fee charges for the student for one semester if the semester is scheduled to include fewer than four (4) rotations. OSU-COM will calculate the tuition and fees that may be prorated for a student according to the following fee schedule, which is based on the number of rotations the student is scheduled to complete:

**Prorated Tuition and Fees for Students Returning from a Leave of Absence or Withdrawal in Clinical Years**

<table>
<thead>
<tr>
<th>Number of Rotations Scheduled for Semester</th>
<th>Prorated Percentage of Tuition and Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>16.67%</td>
</tr>
<tr>
<td>2</td>
<td>33.33%</td>
</tr>
<tr>
<td>3</td>
<td>50.00%</td>
</tr>
</tbody>
</table>

OSU-COM recognizes that the semester in which a student completes fewer than four (4) rotations after returning from a leave of absence or withdrawal may be the semester to which the student is returning or may be the final semester the student completes based upon what the student and the Dean determine is in the student’s best interest. This refund policy will apply to a semester in which the student completes fewer than four (4) rotations, but in no event will the student be eligible for prorated tuition and fees in more than one (1) semester after returning from a leave of absence or withdrawal. If a student receives prorated tuition and fees for a semester after returning from a leave of absence or withdrawal and does not complete the scheduled number of rotations, OSU-COM will not prorate additional tuition and fees unless the student is granted another leave of absence or withdrawal.

**Suspension**

Suspension is a forced absence from the College. It is a temporary situation imposed by the Dean when a student is having an academic, professional, or personal problem that requires additional time for the College to gather information. While on suspension, the student is not allowed to attend classes or clinical rotations.

**Attendance Requirements**

Students are expected to attend all lectures, laboratories, and clinical assignments. Attendance is required at all clinical assignments and national board reviews. There may be isolated instances when an individual must be absent, but the student who misses class is still responsible for the materials presented during the lecture or laboratory period. Refer to the course syllabus for individual course attendance requirements.

In accordance with current OSU attendance policy (see section 8 of Clerkship Handbook and section 7.2 of Academic Standards Handbook) one hundred percent attendance is required during clerkship. Any absence without prior authorization or timely notification of illness will result in an “N” non-cognitive grade.

**Student Rights and Responsibilities**

The student is expected to be familiar with the policies and regulations governing students enrolled at the Oklahoma State University College of Osteopathic Medicine and OSU Center for Health Sciences.

Students are expected to conduct themselves in a professional and ethical manner at all times. Students, faculty, and administration share responsibility for maintaining an effective learning environment. Academic dishonesty is not condoned nor will it be tolerated. Refer to the Academic Standards Handbook for the policy and procedure regarding academic dishonesty, which applies to all students at the Center for Health Sciences.

Students with complaints can refer to the Student Complaints section of this Catalog for additional information.

**Students’ Rights to Privacy**

The Family Educational Rights and Privacy Act of 1974 (Buckley Amendment) was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records in all offices, and to provide guidelines for the correction of inaccurate or misleading data through informal and formal hearings. An OSU-CHS student has the right to:

1. Inspect and review information contained in his or her educational records.
2. Challenge the contents of the educational record. Have a hearing if the outcome of a challenge is unsatisfactory.
3. Submit an explanatory statement for inclusion in the educational record, if the outcome of the hearing is unsatisfactory.
4. Secure a copy of the institutional policy, which includes the location of all educational records.
5. Prevent disclosure, with certain exceptions, of personally identifiable information from the educational record.

Withholding Disclosure of Information
Currently enrolled students may withhold disclosure of directory information. A student may file with the Office of the Registrar a written request not to release directory information. The College assumes that failure on the part of any student to specifically request the withholding of directory information indicates individual approval for disclosure.

“Directory information” includes: Student's name, local and permanent addresses; electronic mail addresses assigned or provided by the institution or provided to the University by the student; telephone number; composite photograph, major field of study; dates of attendance at OSU-CHS; degrees, honors, and awards granted or received; academic classification such as MS-I, MS-II, MS-III, MS-IV, etc.; gender; educational institutions previously attended; degree(s) held, date(s) granted, and institution(s) granting such degree(s); dissertation or thesis title; advisor or the thesis advisor; participation in officially recognized organizations and activities.

Access to Records
No other information regarding students’ educational records may be disclosed to anyone without written consent of students, except to “school officials” who have a “legitimate educational interest” in the student. Upon request, the University discloses education records without consent to officials of another school in which a student seeks or intends to enroll. Students, or parents of dependent students, may inspect and review their educational records. Some form of photo identification must be displayed before access to educational records will be allowed.

Definitions:
- “Educational record” refers to those records that are directly related to a student and are maintained by an educational institution.
- “School official” is defined as an individual currently serving as a member of the Oklahoma State University Board of Regents or classified as faculty, administrative, or professional, and the staff such school officials supervise.
- “Legitimate educational interest” is defined as an interest which results from the duties officially assigned to a school official and which is related to such a school official’s responsibility for facilitating the student’s development.
- The College observes all federal and state legal requirements regarding confidentiality, accessibility, and maintenance of student records.

Disability
OSU-COM will provide reasonable accommodations to medical students with disabilities, as defined by the American with Disabilities Act (ADA) and/or Section 502 of the Federal Rehabilitation Act. Refer to the College’s Policy on Accommodations for Students with Disabilities for procedures for requesting accommodations. For more information, please visit https://medicine.okstate.edu/com/student-life/disability-services.html.

Housing, Transportation, Employment
The College does not provide student housing. It is the responsibility of each student to obtain his or her own housing. Students must notify the College of their current address and telephone number during their association with the College. Students are expected to make their own arrangements for transportation while attending the College. Depending on available funds, some opportunities for part-time employment (research and laboratory assistants, tutors, library assistants, etc.) are available to students through the Federal Work Study Program.

Student Organizations
The Student Government Association (SGA) and Student Senate are recognized by the College as organizations representing student governance. SGA officers and representatives of each class are elected by the student body. The SGA and Student Senate often represent students' interests to the faculty and administration. College-student communications are aided by student representatives serving on several College committees. The Office of Student Life provides oversight of all student organizations. For more information on student organizations refer to the Student Handbook or the university website at: https://medicine.okstate.edu/com/student-life/student-clubs.html.

Student Sponsored Programs
The Interim Assistant Dean of Student Life must approve all student-organized programs and speakers presented under College auspices, including any speaker or program paid for from student activity funds, advertised through College-sponsored publications, or conducted on premises rented, owned, or operated by the College. Student sponsors must submit names of speakers, program topic, and the date, time, and place of the presentation for consideration at least three weeks before the proposed date of the program. (See the Student Handbook for more information.)
O. Student Doctor and Accepted Applicant Drug Screening Policy
The mental and physical health and well-being of students is vital to the success of the OSU-COM, and is necessary to maintain the high standards of healthcare provided to the general public. OSU-COM has the right and obligation to provide students with a safe, healthy, efficient, and effective learning environment free from outside influences, which includes the illegal use and/or distribution of controlled substances. Although under the supervision of qualified faculty and/or adjunct faculty, student doctors are responsible for the health, safety, and welfare of patients. Student doctors regularly have access to confidential and sensitive information, which requires the exercise of ethical behavior.

Required and random drug screenings of students and accepted applicants is an important component in assessing their suitability to function in a clinical setting. Increasingly, clinical facilities are implementing drug screening policies and procedures as required by the Joint Commission on Accreditation of Healthcare Organizations (JCAHO). Furthermore, clinical facilities are increasingly requiring that OSU-COM review and certify each student’s drug screening results prior to the beginning of each rotation through specific and explicit clauses within affiliation agreements.

Because of the compelling rationale for a drug-free campus, OSU-COM has a drug screening policy that applies to accepted applicants and student doctors. The policy provides that OSU-COM will screen all accepted applicants for controlled substances prior to matriculation, and it will screen student doctors prior to beginning the Clerkship Program in year three. OSU-COM also reserves the right to conduct random drug screens and testing for reasonable suspicion of all student doctors. To review the entire OSU-COM drug screening policy, please refer to the Drug Screening Policy: https://medicine.okstate.edu/com/academics/policies.html.

P. Student Grievance Procedures
OSU-COM is committed to addressing student complaints and promoting a mechanism by which complaints can be reviewed and resolved. Students with complaints should refer to the specific policies below. If assistance is needed, students can contact the Office of Student Life in Tulsa and the Office of Student Services in Tahlequah for further information.

In addition to the complaint procedures below, students also have the opportunity to provide anonymous feedback on matters through an OSU-COM Feedback system. Students who would like to utilize the feedback process to express their concerns should refer to the section below on "Student Feedback."

Student Academic Complaint Policy and Procedures
Students who have an academic complaint can expect to have their complaint addressed through this procedure. Unless other justification is present, the student will ordinarily be expected to seek resolution, beginning with the faculty/staff member in the discipline, prior to advancing administratively through the grievance process. If a student requires assistance, the Office of Student Life in Tulsa and the Office of Student Services in Tahlequah are available for consultation and guidance. Complaint forms are found in the Office of Student Life in Tulsa and the Office of Student Services in Tahlequah. All complaints will be monitored and reviewed by the Office of Student Life within 24-48 hours of receipt on business days. The Student Academic Complaint Policy governs all academic complaints and is not to be used for grievances related to sexual harassment/sexual misconduct, discrimination, non-compliance with AOA Accreditation Standards, or grade appeals. To register a complaint in these areas, please see the related policies.

Grade Appeal: See the Grade Appeal Policy found in the Academic Standards Handbook and at: https://medicine.okstate.edu/site-files/documents/com/academic-standards-handbook.pdf.

Sexual Harassment/Sexual Misconduct/Sex-Based Discrimination: See Gender Discrimination /Sexual Harassment Policy and Title IX Grievance Procedure. For information about filing a complaint, see the "reporting section" at https://medicine.okstate.edu/hr/1is2many/index.html or contact the Office of Student Conduct, Title IX Coordinator, OSU-CHS, 918-561-1950.


**Procedure for an Academic Complaint**

1. Prior to filing a complaint, students are expected to seek resolution through informal means. Students should begin the informal process by discussing the matter directly with the instructor or course coordinator for the discipline or staff member who is associated with the complaint. If the attempt to resolve the matter is successful, no further progression through this policy is warranted.

2. If an attempt at informal resolution is not successful, the student should register the complaint by submitting the Student Complaint Form found in the Office of Student Life in Tulsa and the Office of Student Services in Tahlequah; this action will register the complaint both with the Office of Educational Development and the Office of Student Life in Tulsa or the Office of Student Services in Tahlequah for tracking purposes.

3. Once the complaint is received, the Office of Educational Development will forward the complaint to the Year 1-2 Committee or Year 3-4 Committee, based on the nature of the complaint. The reviewing Committee may request a meeting with the student, should additional information be needed in reviewing the complaint. The respective committee will submit a recommendation to the Curriculum Oversight Committee (COC) regarding resolution of the complaint.

4. The COC will make the official determination on resolution of the complaint. If the complaint is satisfactorily resolved, the Office of Educational Development will be responsible for notifying the student of the Committee's findings and submitting final documentation of resolution of the complaint to the Office of Student Life.

5. If the matter is not resolved after review by the COC, the next level of review will be made by the Council of Deans. The decision rendered by the Council of Deans is final and binding.

6. Throughout this process, review at each level will be documented on the Student Complaint Form and notification made to the student regarding outcome at each level of review. The Office of Educational Development will be responsible for notifying all parties. Final documentation on the resolution of the complaint will be maintained by the Office of Student Life.

7. A notification report of all complaints will be forwarded on a regular basis by the Office of Student Life to the Council of Deans.

**Student Non-Academic Complaint Policy**

Students who have a non-academic complaint can expect to have their complaint addressed through this procedure. Unless other justification is present, the student will ordinarily be expected to attempt to resolve the matter through informal means, prior to filing a complaint and advancing administratively through the grievance process. If a student requires assistance, the Office of Student Life in Tulsa and the Office of Student Services in Tahlequah are available for consultation and to provide guidance regarding whether an exception to the procedure is indicated. All complaints will be monitored and reviewed by the Office of Student Life within 24-48 hours of receipt on business days. The Student Non-Academic Complaint Policy governs all non-academic complaints and is not to be used for grievances related to sexual harassment/sexual misconduct, discrimination, non-compliance with AOA Accreditation Standards, or grade appeals. To register a complaint in these areas, please see the related policies.

**Grade Appeal:** See the Grade Appeal Policy found in the Academic Standards Handbook and at: [https://medicine.okstate.edu/site-files/documents/com/academic-standards-handbook.pdf](https://medicine.okstate.edu/site-files/documents/com/academic-standards-handbook.pdf).

**Sexual Harassment/Sexual Misconduct/Sex-Based Discrimination:** See Gender Discrimination /Sexual Harassment Policy and Title IX Grievance Procedure. For information about filing a complaint, see the "reporting section" at [https://medicine.okstate.edu/hr/1is2many/index.html](https://medicine.okstate.edu/hr/1is2many/index.html) or contact the Office of Student Conduct, Title IX Coordinator, OSU-CHS, 918-561-1950.


**Non-Compliance with AOA Accreditation Standards:** See Non-compliance with AOA Accreditation Standards Policy, found below and in the Student Handbook at: [https://medicine.okstate.edu/site-files/documents/com/student-handbook.pdf](https://medicine.okstate.edu/site-files/documents/com/student-handbook.pdf).

**Procedure for a Non-Academic Complaint:**

1. Prior to filing a complaint, students are expected to seek resolution through informal means. Students should begin the informal process by discussing the matter directly with the staff or faculty member in the designated administrative unit. If the attempt to resolve the matter is successful, no further progression through this policy is warranted.

2. If an attempt at informal resolution is not successful, the student should register the complaint by completing the Student Non-Academic Complaint Form found in the Office of Student Life in Tulsa and the Office of Student Services in Tahlequah. Complaints should be filed within 30 calendar days of the incident prompting the complaint.
3. Upon receipt of the complaint, the Office of Student Life will pursue resolution of the complaint, bringing the matter to the attention of the relevant administrative unit head, as needed.

4. If a satisfactory resolution is not obtained, the matter will be routed to the next highest level of authority. If a satisfactory outcome is achieved, the Office of Student Life will notify the student, document the resolution on the Student Complaint form, and close the matter.

5. If a satisfactory resolution is not obtained, the matter will be routed to the next highest level of authority and continue in this manner, as required. If a satisfactory resolution is not obtained after exhausting the appropriate levels of authority, the Executive Leadership Team will serve as the final reviewing authority on the matter. The decision of the Executive Leadership Team will be final and binding.

6. Throughout this process, review at each level will be documented on the Student Complaint Form and notification made to the student regarding outcome at each level of review. The Office of Student Life will be responsible for notifying all parties. Final documentation on the resolution of the complaint will be maintained by the Office of Student Life.

7. A notification report of all complaints will be forwarded on a regular basis by the Office of Student Life to the Council of Deans.

**Student Grievance Policy and Procedures for Alleged Discrimination**

Students with grievances related to alleged discrimination may seek redress. Complaints may be handled through the formal grievance procedure described here or through the Office of Student Conduct/Title IX Coordinator, as appropriate. The procedures are NOT applicable to academic evaluations and/or admissions decisions. Any student who believes he/she has been discriminated against while attempting to gain access to, participate in, or receive benefits from any College program or activity may seek redress through the designated grievance procedure.

A standing Affirmative Action Compliance Committee is appointed by the Dean. This committee includes the College Affirmative Action Officer with representation from the faculty and student body. The procedure is as follows:

1. Any student who believes that he/she has been aggrieved by treatment or judgment of another person within the College, or that the administration of any College policy has abridged his/her personal or human rights, should attempt internal resolution of the matter by first speaking with the Interim Associate Dean for Student Life.

2. If this attempt fails, he/she should present a written account of the alleged act to the chairman of the Affirmative Action Compliance Committee no later than thirty (30) days after becoming aware of its occurrence.

3. The chairman of the committee will receive the written account of the grievance and the response of the accused, will interview all parties, and will attempt to help the parties involved come to an informal settlement.

4. If a settlement cannot be reached, the complainant may submit to the chairman a request for a formal hearing before the entire committee within ten (10) days.

5. Within ten (10) days after receiving the written request, the Affirmative Action Compliance Committee will convene and review the grievance.

6. Within five (5) days after the review, the committee will issue an opinion regarding the grievance.

7. The complainant will have ten (10) days to appeal to the College Dean the committee’s decision.

8. The Dean will investigate the appeal in consultation with any or all persons involved and will then decide either to support the decision of the committee or to support the complainant. The Dean’s decision will be transmitted in writing to the complainant and the committee within fifteen (15) days following the investigation and is final.

In all cases, the chairman of the committee will be responsible for coordinating the grievance and providing notices to all parties and witnesses.

**Complaints Regarding Non-Compliance with AOA Accreditation Standards**

OSU-CHS is committed to meeting and exceeding the standards for accreditation of colleges of osteopathic medicine as described by the American Osteopathic Association Commission on Osteopathic College Accreditation (https://osteopathic.org/accreditation/standards/). A copy of the standards is available upon request from the Office of Academic Affairs. Students who believe that the College may not be in compliance with a standard of accreditation have 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 Life in Tulsa and the Office of Student Services in Tahlequah.

2. Student Life will consult with the Senior Associate 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 standard compliance or non-compliance, and recommended corrective actions. The results will be communicated in writing to the Senior Interim Associate Dean of Student Life and the student complainant.
4. If corrective action is indicated, the Senior Associate Dean will respond with a description/plan for such action within 30 days of receipt of the ad hoc committee results.
5. Records of all proceedings regarding complaints will be maintained by the Office of Student Life.
6. In the event that the student complainant is not satisfied with the ad hoc committee determination and/or corrective action, the student may communicate his/her complaint at the following address:
   Secretary, Commission on Osteopathic College Accreditation
   American Osteopathic Association
   142 East Ontario Street
   Chicago, IL 60611-2864
   Phone (312) 202-8000
   predoc@osteopathic.org

Student Feedback
In instances in which students would like to share feedback about the curriculum and any other general matters—in the absence of filing a formal complaint—students can utilize the OSU-COM Feedback system. Students can submit feedback anonymously in regards to any concerns they may have. The OSU-COM Feedback form is located on the website at https://okstate.forms-db.com/view.php?id=333677. Feedback will be addressed according to the policies and procedures described.

Q. Educational Program

Academic Programs
The curriculum at the OSU College of Osteopathic Medicine places an emphasis on primary care. The four-year program emphasizes the integration of biomedical sciences with clinical systems. The curriculum includes early hands-on clinical experiences with patients, patient models, and simulations. Instructional methods are student-centered and include traditional lecture, small group, and team-based learning. Problem-solving and information retrieval skills are emphasized to produce and develop skills that support lifelong learning as well as traditional lecture. A traditional track, a rural medical track (RMT), a global health track (GHT), and a tribal nations medical track (TMT) are offered.

The culture of OSU College of Osteopathic Medicine encourages students to establish an academic relationship with faculty members and community-based physicians. The curriculum emphasizes integration of biomedical, clinical, and behavioral sciences to permit the full comprehension of the clinician’s work and promotes a holistic approach to the care of patients and their families. Students receive training in all areas of medicine with emphasis on osteopathic principles and practices. The first semester of the first year focuses on the foundations of biomedical and clinical sciences along with an introduction to patient care and community resources. Starting in the second semester of the first year and continuing through the end of the second year, students are introduced to a total of 11 clinical systems that prepare students for addressing conditions typically seen in the primary care environment. Throughout the first and second years, students also participate in short focus courses that are targeted at a variety of healthcare topics such as evidence-based medicine, geriatrics, and health behavior change, etc.

The third and fourth years are comprised of clinical rotations, which are community-based, consisting of clerkship experiences in hospitals and clinics where students observe patient care and participate in the evaluation and treatment of patients under physician faculty supervision. Required rotations include osteopathic manipulative medicine, surgery, obstetrics-gynecology, pediatrics, psychiatry, internal medicine, family medicine, and emergency medicine. Many rotations are completed at OSU Medical Center in Tulsa, one of the country’s largest osteopathic hospitals, as well as various other rural and metropolitan hospitals across the state. The balance of the supervised clinical clerkships are in communities throughout Oklahoma in which students spend one month on a Community Hospital rotation and one month on a Rural Clinic rotation. Students may also fulfill elective requirements at various medical institutions across the country.

Students in the traditional track, Global Health Track, Rural Medical Track, and Tribal Medical Track graduate from the four-year program with the Doctor of Osteopathic Medicine (DO) degree. Although a large number of graduates enter primary care, graduates are prepared to enter residencies in all medical specialty fields. This training period lasts a minimum of three years, with several specialties requiring up to five years of postgraduate education. To see a full list of residency programs our recent graduates have entered and residency acceptance data, along with OSU-COM’s pass rate on the COMLEX-USA, please visit: https://medicine.okstate.edu/admissions/graduates.html.

Global Health Track
OSU-COM offers a Global Health Track for medical students interested in global health topics and international outreach. The Global Health Track is designed to provide students with an opportunity to explore issues in the delivery of health services in other countries and to provide a survey of issues related to healthcare in other countries.
In order to meet the requirements of the Global Health Track, students are required to complete three OSU global health travel courses and attend the accompanying small group sessions. Upon completion, the student will receive a minor in global health, be honored at an awards ceremony, and receive a global health notation on their transcript. For more information, students should contact the Global Health Coordinator to enroll: john.mumey@okstate.edu.

Rural Medical Track
OSU-COM offers a rural medical track (RMT) that stresses the unique nature and characteristics of a rural practice. The RMT at the Oklahoma State University Center for Health Sciences prepares medical students for a rural primary care residency and a successful practice in rural or underserved Oklahoma. The RMT offers unique learning opportunities for motivated students to fully develop their skills, knowledge, and abilities to succeed in a challenging practice environment.

A key facet of the RMT is rural-based clinical education. Students in the RMT complete the traditional curriculum during the first and second years of medical school and also have additional experiences that emphasize rural medical training, including a two-week summer externship and completion of a research project. Beginning with the two-week rural physician shadowing experience following the first year of medical school, students in the RMT have the opportunity to complete most of their required clinical education in a rural setting (see OSU – College of Osteopathic Medicine Curriculum). Students work side-by-side with rural physicians learning the skills and performing the tasks necessary for a successful rural practice. The RMT also incorporates a guided research component that each student must complete. Aside from gaining exposure to contemporary rural health research topics, RMT students are expected to produce scholarly works that are suitable for publication or presentation. Beyond the classroom and the clinic, students in the RMT hone their leadership skills through membership in the Student Osteopathic Rural Medicine Club (StORM). The club also provides students with service opportunities and an advocacy platform to pursue rural health policy initiatives.

Tribal Medical Track
OSU-COM offers a Tribal Medical Track (TMT) that stresses the unique nature and characteristics of practicing within a tribal healthcare system or Indian Health Services. The TMT at OSU-COM prepares medical students for a primary care residency affiliated with one of OSU-COM’s tribal partners. The TMT offers unique learning opportunities for motivated students to fully develop their skills, knowledge, and abilities to succeed in a challenging practice environment.

A key facet of the TMT is clinical training and experience in a variety of tribal healthcare systems. OSU-COM has active clinical partnerships with the Cherokee Nation, Choctaw Nation, Chickasaw Nation, Indian Health Services, and other federally recognized tribes in Oklahoma. Students in the TMT will have unique experiences to build enhanced cultural competency for work with indigenous populations while completing the traditional first and second year medical school curriculum. Specific experiences include a two-week summer externship, training in quality improvement and patient safety, and completion of a research project. During the 3rd and 4th years of medical school, students in the TMT have the opportunity to complete most of their required clinical education in a tribally-affiliated health care systems (see OSU–COM Curriculum). Students work side-by-side with physicians learning the skills and performing the tasks necessary for a successful practice. The TMT includes a mentored quality improvement research project suitable for presentation or publication.

Career Development
The Career Development Specialist in the Office of Academic Success is available to assist students with career planning and creating important documents for the residency application process for 1st through 4th year medical students. The Office of Academic Success assists students with composing a Curriculum Vitae (CV) and personal statement, applying for residencies and with the specialty decision-making process, and networking with future programs at the annual Residency Fair.

Residency Applications
Students traditionally begin selecting and applying for internship/residency in the third year of medical school. Information regarding the National Resident Matching Program (NRMP) accredited internships and residencies is available through the Office of Academic Success. Information is also listed in the Student Handbook. For assistance, contact the Career Development Specialist at:

Tanya O’Grady, M.B.A.
Career Development Specialist
(918) 561-8273
tanya.ogrady@okstate.edu
You may access additional information on Career Development at https://medicine.okstate.edu/com/academics/career-development.html.

**Standardized Patient Program**
The standardized patient experiences currently occur as part of the Primary Care Clinic and Osteopathic Manipulative Medicine rotations during a student’s third year of medical school. There are currently five standardized patient sessions. Two sessions are behavioral health-related cases in which the student obtains experience dealing with delivering bad news and conducting brief psychiatric screenings. Two other sessions are called Clinical Practical Exams (CPX). The Clinical Practical Exams are designed to simulate the structure of the COMLEX Level 2 PE. Students have timed encounters with standardized patients who have been trained to act out a given scenario. Each encounter is 14 minutes and during this time the student is expected to take a brief but focused history and conduct a focused physical exam. The students then have nine minutes to write a SOAP note (Subjective findings, Objective findings, Assessment, and Plan). For each of the Clinical Practical Exams, the students rotate through multiple stations performing the same sequence of events four times. The encounters are recorded and reviewed by faculty members who score the encounters as well as the SOAP note. The students then meet with faculty to get detailed feedback about their performance. In addition to the aforementioned standardized patient sessions, students are required to participate in a Mock PE session. Dates for the Mock PE sessions will be scheduled in the 3rd year and/or early in the 4th year. Students will be notified when the dates become available and will be asked to sign-up for an available session. The Department of Medical Education is in the process of incorporating additional standardized patient encounters into the medical school curriculum. Any questions, concerns or suggestions for the Standardized Patient Program should be directed to the Director for Standardized Patients and the Standardized Patient Education Specialist.

**R. OSU-College of Osteopathic Medicine Curriculum**

**Goals for the Oklahoma State University College of Osteopathic Medicine Curriculum**
1. Professional, trustworthy osteopathic practitioners using a patient-centered approach to analyze clinical problems.
2. Informed by current literature and cognizant of issues across the biological, psychological, and social continuum.
3. Lifelong learners.
4. Reflective practitioners with the habit of assessing the impact of the medical practice on the lives of patients and vitality of the community.
5. Civic leaders.
6. Compassionate, committed, and caring physicians who embrace the osteopathic philosophy.

**Objectives of Oklahoma State University College of Osteopathic Medicine Curriculum**
1. Identify, critically analyze and solve problems that consider issues across multiple contexts as osteopathic practitioners related to patient care.
2. Demonstrate knowledge of evidence-based practice in the treatment of patients and the application of relevant research.
3. Perform appropriate diagnostic and treatment skills that encompass the understanding and application of new scientific knowledge of patient care.
4. Effectively lead and communicate with peers and healthcare team members.
5. Demonstrate effective physician-patient interactions.
6. Initiate and sustain life-long learning in order to remain well-informed of relevant scientific evidence related to patient care and medical research.
7. Effectively provide premier quality of care driven by compassion, integrity, honesty, cultural awareness, and ethical principles.
8. Demonstrate the osteopathic philosophy in medical practice while upholding the Osteopathic Oath in professional conduct.
9. Apply medical knowledge and skills to provide exemplary patient care to underserved and rural Oklahoma communities.
10. Incorporate osteopathic manipulative medicine as a diagnostic and treatment modality in patient care.

**AOA Core Competencies**
1. Osteopathic Philosophy and Osteopathic Manipulative Medicine
2. Medical Knowledge
3. Patient Care
4. Interpersonal and Communication Skills
5. Professionalism
6. Practice-Based Learning and Improvement
7. Systems-Based Practice

*Tables 1 and 2 indicate the relationship between assessment type, OSU-COM's curricular objectives and the AOA Core Competencies. Students who are successful on all of the assessments outlined in Tables 1 and 2 are considered prepared for graduate medical education.*
### Table 1: Years 1 and 2 Assessment

<table>
<thead>
<tr>
<th>Type of Assessment</th>
<th>Description</th>
<th>Curricular Objectives*</th>
<th>AOA Competencies**</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On Campus Assessments</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Assessments</td>
<td>Multiple - choice exams, lab exams, case studies, professional communications, team projects, and reflective writing</td>
<td>1, 2</td>
<td>1, 2, 4, 7</td>
</tr>
<tr>
<td></td>
<td>Small Group Activities - problem based learning sessions, laboratory exercises, team-based learning activities, oral presentations, etc.</td>
<td>1, 2, 3, 4</td>
<td>1, 2, 4</td>
</tr>
<tr>
<td></td>
<td>Standardized Patient Encounters – Graded experiences with review by faculty; focus on interviewing basic physical exam skills, interpersonal skills, medical knowledge (basic and clinical sciences), professionalism, and patient - centered care</td>
<td>1, 2, 3, 4, 5</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td></td>
<td>Human Patient Simulator Exercises – Graded experiences with review by faculty; focus on physical exam, medical knowledge (basic and clinical sciences), professionalism, and patient- centered care</td>
<td>1, 2, 3, 4, 5</td>
<td>2, 3, 4, 5</td>
</tr>
<tr>
<td></td>
<td>Practical Examinations - Hands on, one-on-one observation of general approach</td>
<td>1, 2, 3, 4, 5</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td></td>
<td>Clinical Exams using standardized patients for focused encounters as well as comprehensive history and physical exam assessing specific competency skills</td>
<td>1, 2, 3, 4, 5</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td></td>
<td>Clinical Osteopathic Experiences - Hands on diagnosis and treatment (including writing a SOAP note) of volunteer patients by students under direct supervision of OMM faculty and residents</td>
<td>1, 2, 3, 4, 5, 10</td>
<td>1, 2, 3, 4, 5</td>
</tr>
<tr>
<td>Phase I COMSAE</td>
<td>COMLEX-style self-evaluation assessment</td>
<td>1, 2, 3, 4</td>
<td>Prior to COMLEX-USA Level 1</td>
</tr>
<tr>
<td>COMLEX-USA Level 1</td>
<td>Computerized one-day exam covering basic sciences and osteopathic principles in clinical contexts</td>
<td>Before entry into third year</td>
<td>1, 2, 3, 6, 7</td>
</tr>
</tbody>
</table>
### Table 2: Years 3 and 4 Assessment

<table>
<thead>
<tr>
<th>Clinical Rotation Assessments</th>
<th>Years 3 and 4 (Please refer to the online Clinical Rotations Student Manual for details)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Assessment</strong></td>
<td><strong>Description</strong></td>
</tr>
<tr>
<td>Clerkship Specific Assessments</td>
<td>End of Clerkship Examinations</td>
</tr>
<tr>
<td>Clinical Evaluations</td>
<td>Completed by preceptors at the end of each clinical rotation. Covers clinical knowledge, skills, professionalism, and Osteopathic skills. All students must pass all rotations including: required and elective to graduate.</td>
</tr>
<tr>
<td>Case Presentation</td>
<td>Report based on a clinical case encounter. An evaluation of the Case Presentation is conducted by a Physician and the Regional Coordinator.</td>
</tr>
<tr>
<td>Phase II COMSAE Exam</td>
<td>COMLEX-style self-evaluation assessment</td>
</tr>
<tr>
<td>Additional Assessments</td>
<td>Book club, Personal Statement Workshop, Telehealth Workshop, &amp; Video Lecture Evaluations</td>
</tr>
<tr>
<td>NBOME COMAT Exams</td>
<td>Standardized exam from NBOME taken by all students after each core rotation</td>
</tr>
<tr>
<td>COMLEX-USA Level 2 - CE</td>
<td>Computerized one-day exam covering basic and clinical sciences and osteopathic principles in clinical contexts</td>
</tr>
<tr>
<td>COMLEX-USA Level 2 - PE</td>
<td>Standardized patient (CPX) exams</td>
</tr>
<tr>
<td>Didactic Weeks</td>
<td>Didactic weeks include observed simulations, academic advisement, and career advisement</td>
</tr>
<tr>
<td>Transition Week</td>
<td>Transition week helps prepare students for 3rd Year rotations. Activities include BLS, ACLS, EPIC, and HIPAA training. There is also a session on library services and a discussion on professionalism. Students are introduced to Course Coordinators and get a brief overview of the required rotations.</td>
</tr>
<tr>
<td>CPX Exams</td>
<td>Using Standardized patients a CPX exam is given during OMM and FM clinical rotations. A mock PE is given prior to the NBOME Level 2 PE.</td>
</tr>
<tr>
<td>Observed SP encounters</td>
<td>Students practice advanced interviewing skills with a standardized patient on their behavioral health/psychiatry rotation. Instruction &amp; peer feedback given.</td>
</tr>
</tbody>
</table>
## Four-Year Professional Curriculum for Academic Year 2021 – 2022

### First Year – MS-I – Traditional and Rural Medical Track (RMT)
*Prior matriculants refer to previous Catalogs.*

#### Fall Semester Hours
- **CLME 8313**  Osteopathic Manual Medicine I (3)
- **PCME 8115**  Clinical Anatomy (5)
- **PCME 8743**  Foundations in Medical Genetics, Molecular Biology and Developmental Anatomy – BMF II (3)
- **PCME 8752**  Foundations in Medical Cell and Tissue Biology – BMF III (2)
- **PCME 8762**  Foundations in Medical Biochemistry – BMF I (2)
- **PCME 8771**  Foundations in Medical Pharmacology – BMF IV (1)
- **PCME 8914**  Medical Science Foundations (4)

#### Spring Semester Hours
- **CLME 8323**  Osteopathic Manual Medicine II (3)
- **CLME 8821**  Focus Course in Geriatrics (1)
- **CLME 8914**  Clinical Care Foundations I (4)
- **CLME 8941**  Service Learning & Community Engagement I (1)
- **PCME 8781**  Foundations in Medical Immunology – BMF V (1)
- **PCME 8703**  Foundations in Medical Microbiology – BMF VI (3)
- **PCME 8814**  Cardiovascular System (4)
- **PCME 8833**  Hematology System (3)
- **PCME 8853**  Genitourinary System (3)
- **PCME 8873**  Respiratory System (3)

### Second Year – MS-II – Traditional and Rural Medical Track (RMT)
*Prior matriculants refer to previous catalogs.*

#### Fall Semester Hours
- **CLME 8333**  Osteopathic Manual Medicine III (3)
- **CLME 8861**  Focus Course in Rural & Underserved Populations (1)
- **CLME 8871**  Focus Course in Pediatrics (1)
- **CLME 8924**  Clinical Care Foundations II (4)
- **CLME 8951**  Service Learning & Community Engagement II (1)
- **CLME 8981**  Culture and Medicine (1)
- **PCME 8823**  Gastrointestinal/Hepatic System (3)
- **PCME 8883**  Psychiatry System (3)
- **PCME 8916**  Nervous System (6)

#### Spring Semester Hours
- **CLME 8343**  Osteopathic Manual Medicine IV (3)
- **CLME 8841**  Focus Course in Addiction Medicine (1)
- **CLME 8891**  Focus Course in Obesity Medicine (1)
- **CLME 8934**  Clinical Care Foundations III (4)
- **CLME 8961**  Service Learning & Community Engagement III (1)
- **CLME 9211**  Didactic Week I – Transition Week (1)
- **PCME 8843**  Musculoskeletal/Skin/Connective System (3)
- **PCME 8863**  Reproductive System (3)
- **PCME 8903**  Endocrine System (3)
- **PCME 8982**  Integrated Systems Review (2)

### Optional MS-I and MS-II Electives
- **CLME 8111(001)**  Medical Spanish I (1)
- **CLME 8111(002)**  Medical Spanish II (1)
- **CLME 8112**  Summer Rural Externship (2) *(Required for Rural Medical Track)*
- **CLME 8115**  Summer Global Health Externship *(Required for Global Health Track)*
Required Courses

CLME 9110 Internal Medicine (Core) (8-Week Course)
CLME 9145 Rural Clinic (Required)
CLME 9155 Pediatrics (Required)
CLME 9165 Osteopathic Manipulative Medicine (Required)
CLME 9175 Obstetrics/Gynecology (Core)
CLME 9185 Psychiatry (Required)
CLME 9195 Surgery (Core)
CLME 9215 Community Hospital (Required)
CLME 9235 Health Care Clinic (Required)
CLME 9255 Emergency Medicine (Required)

Required Elective Courses

CLME 9855 Elective I
CLME 9865 Elective II
CLME 9875 Elective III
CLME 9885 Elective IV
CLME 9265 Elective V
CLME 9275 Elective VI
CLME 9375 Elective VII
CLME 9385 Elective VIII
CLME 9395 Elective IX (May substitute optional CLME 9415 Wellness II)
CLME 9815 Elective - Primary Care
CLME 9405 Wellness I (Required)

Other Elective Courses (may be substituted for required Electives I – IX)

CLME 9355 Fall Global Health Selective (Required for Global Health Track)
CLME 9365 Business of Medicine
CLME 9415 Wellness Elective II
CLME 9455 Winter Global Health Selective (Required for Global Health Track)

Required Didactic Week Courses

CLME 9221 Didactic Week II
CLME 9231 Didactic Week III
CLME 9241 Didactic Week IV

Third and Fourth Year – MS-III & MS-IV – Global Health Track Curriculum

Global Health Track Required Courses

CLME 8115 Summer Global Health Externship
CLME 9355 Fall Global Health Selective*
CLME 9455 Winter Global Health Selective*

*Students pursuing the Global Health Track take these courses in place of Electives I – IX listed above, as assigned by Clinical Education.

Third and Fourth Year – MS-III & MS-IV – Rural Medical Track Curriculum (Class of 2022 Refer to 2020 – 2021 Catalog)

Rural Medical Track Required Courses

CLME 9110 Internal Medicine (Core) (8-Week Course)
CLME 9155 Pediatrics (Required)
CLME 9165 Required OMM (Required)
CLME 9175  Ob/Gyn (Core)
CLME 9185  Psychiatry (Required)
CLME 9195  Surgery (Core)
CLME 9215  Community Hospital (Required)
CLME 9235  Clinic (Required)
CLME 9245  Required Community Clinic (Required)
CLME 9255  Emergency Medicine (Required)
CLME 9285  Sub Internship I
CLME 9295  Sub Internship II
CLME 9805  Selective I
CLME 9325  Selective II
CLME 9335  Selective III
CLME 9405  Wellness I

RMT Required Didactic Week Courses
CLME 9221  Didactic Week II
CLME 9231  Didactic Week III
CLME 9241  Didactic Week IV

RMT – 12 Weeks Required from the Following (Choose 5)
CLME 9315  Sub Internship III
CLME 9835  Selective IV
CLME 9855  Elective I
CLME 9865  Elective II
CLME 9875  Elective III
CLME 9885  Elective IV
CLME 9265  Elective V
CLME 9415  Wellness II

Prior matriculants refer to previous catalogs.

S. Course Descriptions

First Year – MS-I

CLME 8313 Osteopathic Manipulative Medicine I
This course introduces the importance of the musculoskeletal system in health and disease. The course consists of both lecture and hands-on practicum sessions. Lectures provide the didactic base for the practical sessions while the development of palpatory skills for diagnosis and treatment are stressed in the practicum. Students are introduced to the osteopathic structural exam and a variety of manual techniques that will serve as the building block for osteopathic manipulative skills which are used throughout a lifetime of practice. Students practicing on each other are an essential element of the practicum setting.

CLME 8323 Osteopathic Manipulative Medicine II
This course continues the student's training in basic psychomotor skills in osteopathic principles and practice. The practicum sessions include simulated clinical experiences in osteopathic principles and practice using small group experiences, case studies, and audio visual aids using fellow students. Lectures provide the didactic base for practicum. Hands-on sessions develop student evaluation and treatment skills using muscle energy and counter-strain techniques for examining and treating the musculoskeletal system.

CLME 8821 Focus Course in Geriatrics
The Geriatric Focus course provides the basic foundation for students to be able to provide competent, compassionate care for the growing population of older adults. In this course students will be introduced to a variety of topics to meet this goal including: 1) the epidemiology and demography of aging, 2) stereotypes and myths of aging, 3) psychosocial and functional aspects of aging, 4) normal aging vs disease, 5) anatomic and histological changes associated with aging, 6) atypical presentation of disease, 7) various geriatric syndromes, i.e., incontinence, falls, osteoporosis, and 8) palliative care.

CLME 8914 Clinical Care Foundations I
This course introduces the concepts of history taking and physical diagnosis skills. The practicum includes simulated clinical experiences through the use of small group discussion, case studies, audio visual aids using fellow students,
and simulated patient models. Exposes students to the principles of clinical work and serves as a building block for osteopathic clinical skills which are used throughout a lifetime of practice.

CLME 8941 Service Learning/Community Engagement I
Being a good steward of your community is a fundamental part of becoming a successful, compassionate, and competent physician. In this course students use knowledge gained in the classroom to engage with community partners and senior mentors in reciprocal learning activities. Reflection after these activities will enrich the learning experience.

PCME 8116 Clinical Anatomy
This course presents gross structure of the human body using a regional approach. Topics include topographic and functional anatomy, clinical correlations, and an introduction to radiology. The course provides the descriptive basis for understanding human structure and function encountered in succeeding courses and medical practice.

PCME 8703 Foundations in Medical Microbiology
Infectious agents, including viruses, bacteria, fungi and parasites, their structure, genetics and mechanisms of pathogenesis in human disease.

PCME 8743 Foundations in Genetics, Molecular Biology and Developmental Anatomy
Human genetics and development, including structure and function of nucleic acids, gene regulation, basis of inheritance, and development of the human embryo.

PCME 8752 Foundations in Medical Cell and Tissue Biology
Structure and function of cells within tissues as it relates to human health and disease, including cell transport, cell-to-cell communication and organ system control.

PCME 8762 Foundations in Medical Biochemistry
Biochemistry in human health and disease, including protein structure and function, bioenergetics, metabolism, nutrition, and membrane structure and function.

PCME 8771 Foundations in Medical Pharmacology
General principles of pharmacokinetics and pharmacodynamics of drugs used to treat human disease.

PCME 8781 Foundations in Medical Immunology
The immune system in human health and disease, including antibody and cell-mediated immune responses, inflammation, immune responses to infectious agents and allergens, immunodeficiencies and malignancies of the immune system.

PCME 8814 Cardiovascular System
The Cardiovascular System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal cardiovascular system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8833 Hematology System
The Hematology System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal hematology system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8853 Genitourinary System
The Genitourinary (GU) System Course is designed to integrate biomedical and clinical knowledge providing the student with the medical background to address the health of the GU system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. The course will also include prevention strategies to maintain the health of the GU system, treatments to restore normal function, surgical procedures required to correct abnormalities, and pharmacologic treatment for the most common medical conditions.
In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process, and formulating treatment plans.

**PCME 8873 Respiratory System**

The Respiratory System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal respiratory system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

**PCME 8914 Medical Sciences Foundation**

Medical Sciences Foundation (MSF) provides a descriptive and quantitative study involving the integration of structure and function of the human body with a functional analysis of the organ systems. Emphasis is on comprehension of the physiologic principles and control mechanisms that maintain homeostasis. Problem-solving techniques are utilized to develop and examine student understanding. This introduction into physiology establishes the fundamental basis from which students can expand their knowledge into pathophysiology, pharmacology, pathology, microbiology, and clinical medicine.

**Second Year – MS-II**

**CLME 8333 Osteopathic Manipulative Medicine III**

This course continues the student's training in basic psychomotor skills in osteopathic principles and practice. The practicum sessions include simulated clinical experiences in osteopathic principles and practice using small group experiences, case studies, and audio visual aids using fellow students. Lectures provide the didactic base for practicum. Hands-on sessions develop student evaluation and treatment skills using muscle energy and counter-strain techniques for examining and treating the musculoskeletal system.

**CLME 8343 Osteopathic Manipulative Medicine IV**

This course continues the student's training in basic psychomotor skills in osteopathic principles and practice. The practicum sessions include simulated clinical experiences in osteopathic principles and practice using small group experiences, case studies, and audio visual aids using fellow students. Lectures provide the didactic base for practicum. Hands-on sessions develop student evaluation and treatment skills using muscle energy and counter-strain techniques for examining and treating the musculoskeletal system.

**CLME 8841 Focus Course in Addiction Medicine**

Alcohol and illicit drug abuse are the top 10 contributors of morbidity and mortality in the world, nation, and Oklahoma. Primary care physicians must be aware of the risk, incidence, prevention, and treatment of substance use disorders. The Addiction Medicine Focus Course aims to enhance the student’s awareness of addiction-related risks and the outcomes associated with abuse, particularly focusing on the epidemiologic findings for Oklahoma. The Course will also concentrate on practical skill development by reinforcing prior classroom learnings and extending previously learned as well as newly acquired skills to clinical settings. In addition, the Course will familiarize the student with trends in public policymaking which impact prevention and treatment.

**CLME 8871 Focus Course in Pediatrics**

The Pediatrics Focus Course will help students acquire the medical knowledge necessary to provide pediatric health care. Students will learn to distinguish between normal and abnormal patterns of growth and development in children from newborn to adolescents. They will build an understanding of disease prevention models regarding common pediatric conditions; common pediatric diseases and conditions; childhood immunization, pediatric sports medicine and physical fitness; pediatric critical care and emergency care; disorders of cognition, language, and learning; and psychosocial issues and ethics within pediatric health care. The course will use a case-based approach to learning.

**CLME 8891 Focus Course in Obesity Medicine**

The main objective of the Obesity Medicine Focus Course is to help students to establish a baseline understanding of the basic concepts in obesity medicine including the causes, physiology, pathophysiology, and epidemiology of obesity. Emphasis will be placed on acquiring the knowledge necessary to prevent, assess, treat, and monitor overweight and obesity in children and adults using evidence based practices. Additionally, students will be introduced to important topics in obesity medicine including disease prevention models, multidisciplinary care, intrapersonal factors, and environmental influences.
CLME 8924 Clinical Care Foundations II
This course continues training in the concepts of history taking and physical diagnosis skills. The practicum includes simulated clinical experiences through the use of small group discussion, case studies, audio visual aids using fellow students, and simulated patient models. Exposes students to the principles of clinical work and serves as a building block for osteopathic clinical skills which are used throughout a lifetime of practice.

CLME 8934 Clinical Care Foundations III
This course continues training in the concepts of history taking and physical diagnosis skills. The practicum includes simulated clinical experiences through the use of small group discussion, case studies, audio visual aids using fellow students, and simulated patient models. Exposes students to the principles of clinical work and serves as a building block for osteopathic clinical skills which are used throughout a lifetime of practice.

CLME 8951 Service Learning/Community Engagement II
Being a good steward of your community is a fundamental part of becoming a successful, compassionate, and competent physician. In this course students continue to use knowledge gained in the classroom to engage with community partners and senior mentors in reciprocal learning activities. Reflection after these activities will enrich the learning experience.

CLME 8961 Service Learning/Community Engagement III
Being a good steward of your community is a fundamental part of becoming a successful, compassionate, and competent physician. In this course students continue to use knowledge gained in the classroom to engage with community partners and senior mentors in reciprocal learning activities. Reflection after these activities will enrich the learning experience.

CLME 8981 Culture and Medicine
This course introduces students to issues related to practicing medicine in an increasingly diverse society. Students will learn about the influence of culture, in the broadest sense, on health, health behavior, the health care encounter, and the health care system. Students will learn skills and strategies that are useful for providing culturally competent care.

PCME 8663 Reproductive System
The Reproductive System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal reproductive system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8823 Gastrointestinal/Hepatic System
The GI/Hepatic System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal GI/Hepatic system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8843 Musculoskeletal System
The Musculoskeletal System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal musculoskeletal system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8861 Focus Course in Rural & Underserved Populations
The Rural & Underserved Populations Focus Course provides the opportunity for medical students to explore a variety of timely healthcare topics through the perspective of rural health leaders, global and tribal health leaders, researchers addressing disparities to care, and key policymakers. This course seeks to identify health concerns of rural and underserved populations, dispel some of the myths that surround medical care in rural and underserved
settings, create action-oriented health needs assessments for community change, and discuss topics and public policy that are unique to rural medical care, further preparing students to engage as future physician leaders in their state and community and champions for the underserved.

PCME 8883 Psychiatry System
The Psychiatry System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the mental health of the patient and includes the most common psychiatric conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain mental health, the treatments to maximize function, and pharmacologic treatment where required to treat the most common psychiatric conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8903 Endocrine System
The Endocrine System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal endocrine system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8916 Nervous System
The Nervous System module will be integrating biomedical and clinical curriculum providing the student with the medical knowledge to address the health of the normal nervous system and includes the most common medical and surgical conditions that present to the primary care and emergency settings. This module will also include prevention strategies to maintain the health of the system, the treatments to restore normal function, surgical procedures required to correct abnormalities and pharmacologic treatment where required to treat the most common medical conditions. In addition students will work to solve case-based clinical problems in a small group discussion format to further the skills of history data gathering, differential diagnosis process and formulating treatment plans.

PCME 8982 Integrated Systems Review
This course is designed to assist MSII students in strengthening their knowledge base over the various physiologic systems and to integrate this knowledge to provide the best possible foundation to continue to clinical coursework and patient care.

Electives – MS-I and MS-II (See course schedules for specific semesters offered)

CLME 8111 (001) Medical Spanish I
Medical Spanish I introduces students to fundamentals of Medical Spanish.

CLME 8111 (002) Medical Spanish II
Medical Spanish II is a continuation of Medical Spanish I, with an emphasis on interacting/dialoguing with the instructor and fellow students.

CLME 8112 Summer Rural Externship
The Summer Rural Externship is a 2 credit hour course. The 2-week rotation is designed to reinforce student interest in a rural practice and to prepare the student for rural clerkships. This clerkship is comprised of a clinical office experience in a small rural community and includes community service and interdisciplinary shadowing. Rural Medical Track students are highly encouraged to enroll in the Summer Rural Externship.

CLME 8115 Summer Global Health Externship
This rotation is designed to provide students with an opportunity to explore issues in the delivery of health services in other countries. Students will learn about and understand the cultural customs prior to the international experience. Experiences, during this rotation, are designed to deepen the awareness of all participants regarding the determinants of health and illness and diverse methods of approaching health problems in settings with varied cultural, socio-economic and political characteristics. These experiences help students develop sensitivity to health disparities and their causes, including health, social, economic, and environmental factors.

CLME 8121 American Sign Language
This elective course is an introduction to American Sign Language for medical students. It is a conversational course during which students will concentrate on learning and practicing vocabulary, phrases and sentences that will be
useful in clinical encounters. Students also will learn some health related customs, norms and beliefs of the deaf culture.

**CLME 8132 Early Research Experience**
Medical errors contribute to thousands of deaths in the U.S. every year, spurring a national movement to improve patient safety and quality of care. The Early Research Experience (ERE) is a 2-credit hour online course designed to introduce students to quality improvement and patient safety concepts. Supplemented with modules from the Institute for Healthcare Improvement (IHI), the course leads to the *IHI Basic Certificate in Quality & Safety*, held by over 120,000 students and professionals. Students will learn to apply the IHI’s Model for Improvement, a simple yet powerful approach to strengthening patient care, in the design of a quality improvement project that may be implemented in future clinical rotations.

**CLME 8243 Human Nutrition**
This course explores the role of vitamins and minerals in maintaining normal metabolism, role of nutrients in providing athletic and immune system performance, and pathophysiology associated with nutrient deficits and nutrient excesses. It also examines the role of drugs in inducing cancer and increasing nutrient requirements.

**Third and Fourth Year – MS-III and MS-IV**

**CLME 9110 Internal Medicine (Core)**
The student assigned to Core Teaching Hospital will be under the supervision of the OSU-COM Course Coordinator within the Departments of Internal Medicine, Surgery, and OB/GYN, who will coordinate medical staff supervisors in Core Teaching Hospital rotations. While on Core Clerkship, students will encounter eight weeks of Internal Medicine training in the hospital setting. Students will have the opportunity to participate in general Internal Medicine and many students will also have the opportunity for inpatient subspecialty training. The rotation is designed to acquaint third-year medical students with care of acutely ill, hospitalized patients. Case discussions, clinical pathology conferences, didactic lectures, and bedside teaching accompany patient care. Students will learn the process of inpatient medicine from admission to discharge of the patient. Students are expected to learn by participation in clinical rounds as well didactic presentations, 100% participation in all didactic programs is required.

Core Teaching Hospital locations: Tulsa, Oklahoma City, and Lawton.
Core Teaching Hospital locations for Rural Medical Track: Durant, Enid, Lawton, McAlester, Muskogee, and Tahlequah.

Each Core Teaching Hospital assignment is sixteen weeks in length, and is composed of one eight-week block rotation and two four-week block rotations. The rotations assigned to Core Teaching Hospital are:

- **CLME 9110**  Medicine (Core)  8 Weeks
- **CLME 9175**  Ob/Gyn (Core)  4 Weeks
- **CLME 9195**  Surgery (Core)  4 Weeks

**CLME 9145 Rural Clinic (Required)**
The Rural Clinic rotation provides training for 3rd year students in ambulatory care, as well as community health and social experiences in rural communities. Students are assigned to supervising physicians at sites away from major urban areas. Complimentary housing for Rural Clinic is available at most sites at no cost to the student and is coordinated through the OSU Regional Coordinators.

**CLME 9155 Pediatrics (Required)**
The Pediatric rotation is designed to give students a primary care clinical experience in ambulatory pediatric settings. Each Pediatric rotation assignment is four weeks in length.

**CLME 9165 Osteopathic Manipulative Medicine (Required)**
The Osteopathic Manipulative Medicine (OMM) clerkship is designed to provide students with an opportunity to experience OMM in the clinical setting. Students will perform Osteopathic Manipulative Treatment under the supervision of a licensed osteopathic physician. The rotation is four weeks in length. Students spend one week in the hospital setting and three weeks in the ambulatory clinic.

**CLME 9175 Obstetrics & Gynecology (Core)**
The Clerkship Obstetrics and Gynecology rotation has been designed to provide practical clinical exposure and knowledge in the area of primary care medicine. This may be accomplished through a basic program structure developed to achieve proficiency in patient evaluation, diagnosis, and management.
CLME 9185 Psychiatry (Required)
The Psychiatry rotation is designed to familiarize the student with the diagnosis and treatment of psychiatric disorders. Each Psychiatry rotation assignment is four weeks in length.

CLME 9195 Surgery (Core)
The goal for the clerkship is to prepare the student to work effectively, as a primary care provider, within a multidisciplinary medical team caring for the surgical patient. The curricula will emphasize the importance of evaluation of potential surgical patients, the appropriate referral to a surgical specialist, and effective communication with both the patient and the specialist.

CLME 9215 Community Hospital (Required)
Each Community Hospital assignment is 4 weeks in length. The community hospital based rotation provides students experience in areas such as hospitalist role, internal medicine, obstetrics, surgery, emergency medicine, etc. The course is designed to allow the student an opportunity to manage patient care in a hospital setting, and to perform basic diagnostic procedures which are routinely performed in community hospitals.

CLME 9235 Health Care Clinic (Required)
All students rotate through the OSU-COM Health Care Center and OSU Eastgate during their 3rd year of medical training. This course is designed to give students the opportunity to provide continuity of care to a case-load of patients in an ambulatory setting. The Primary Care Clinic experience is four weeks in length.

CLME 9245 Community Clinic (RMT Only)
This clerkship provides third-year students continued clerkship training in rural and community-based rotations in a physician’s office in a small, rural community. Students participate in didactics covering topics relating to rural health care, e.g., agricultural topics, distance learning, presentation prep, disaster simulations, community resources, cultural influence, telemedicine, research, rural health policy, and interdisciplinary health care.

CLME 9255 Emergency Medicine (Required)
The Emergency Medicine rotation is designed to give students experience in the management of trauma and medical emergencies. Complimentary housing is available at most sites outside of the Tulsa or Oklahoma City area and is coordinated through the OSU Regional Coordinators.

CLME 9265, 9275, 9375, 9385, 9395 9855, 9865, 9875, and 9885 Electives
Each student may request to utilize his or her elective rotations in either an osteopathic or an allopathic medical setting of their choosing under the supervision of an approved licensed practicing physician. Two electives may be research-based under the direction of a Ph.D. and/or one elective may be taken as a second vacation, if needed. Students are encouraged to schedule elective rotations in a variety of clinical practice areas for broad-based clinical exposure. The Office of Clinical Education does not recommend scheduling elective rotations in only one clinical specialty area.

CLME 9285, 9295, and 9315 Sub-Internships (RMT Only)
Required rotations that give Rural Medical Track students training at a primary care residency site to participate in hands-on training alongside residents and attendings a at a residency site in Oklahoma. The rotation allows RMT students to gain a more in-depth understanding of the relationship between the residency program, the hospital, and the community and to gain insight into medical knowledge and skill level needed for residency.

CLME 9325, 9335, 9345, and 9805 RMT Selectives (RMT Only)
Required rotations that give RMT students training in select specialties to gain more in-depth understanding of the relationship between the rural primary care physician and the specialist. The rotation provides an opportunity to gain experience in identified, specific areas of need or interest that could assist a rural physician to better serve the rural population.

CLME 9355 Fall Global Health Selective (Global Health Track)
This rotation is designed to provide students with an opportunity to explore issues in the delivery of health services in other countries. This course is intended to provide a survey of issues related to healthcare in other countries. It is not intended to transform the student into a specialist in the area of global health. Students will learn to use a logical and clinical approach to the care of patients in a developing country setting, utilizing locally available resources, and applying principles of evidence-based decision-making and problem-solving to care. Students learn about and understand the cultural customs prior to the international experience.
CLME 9365 Business of Medicine
The Business of Medicine rotation is an elective course offered to fourth-year students. It is designed to offer medical students an introduction to the basic principles of business and finance a physician may encounter in his or her career and personal life. The concepts learned in this course will give the new, or even experienced, physician a better understanding of the current climate of the business aspect of medicine and will be beneficial whether the choice is made to enter private practice, engage in administrative roles, or operate as an employed physician.

CLME 9405 Wellness Elective I
Medical students often become consumed with academic challenges and part of becoming a successful professional is learning how to develop a fulfilling career while managing stress and maintaining a balanced lifestyle. The Wellness I course is a required rotation focused on Wellness activities and is meant to be a break/reset from the other required rotations. The purpose of the course is to encourage self-care, resiliency, mindfulness, and wellness in a structure that allows for free time, rest and personal reflection. Actual framework and timing of course activities are to be assigned in a way that works with the student’s schedule for the month with periodic check-ins and asynchronous activities.

CLME 9415 Wellness Elective II
Medical students often become consumed with academic challenges and part of becoming a successful professional is learning how to develop a fulfilling career while managing stress and maintaining a balanced lifestyle. The Wellness I course is a required rotation focused on Wellness activities and is meant to be a break/reset from the other required rotations. The purpose of the course is to encourage self-care, resiliency, mindfulness, and wellness in a structure that allows for free time, rest and personal reflection. Actual framework and timing of course activities are to be assigned in a way that works with the student’s schedule for the month with periodic check-ins and asynchronous activities.

CLME 9475 Study Elective I
The Study Elective I rotation is a four-week elective designed for students to work through a structured study plan to prepare for the COMLEX Level 1 Exam. The Study Elective contains structured elements including completion of a defined number of board exam style questions from pre-approved question banks, review of board exam relevant content from pre-approved resources and meeting routinely with the Office of Academic Success. Additionally, students will have time for self-directed study to use additional board preparation resources throughout the four-week elective. Students must receive permission to enroll in the Study Elective I rotation by the Director of the Office of Academic Success, the Associate Dean for Clinical Education, and the Associate Dean for Academic Affairs.

CLME 9455 Winter Global Health Selective (Global Health Track)
This rotation is designed to provide students with an opportunity to explore issues in the delivery of health services in other countries. This course is intended to provide a survey of issues related to healthcare in other countries. It is not intended to transform the student into a specialist in the area of global health. Students will learn to use a logical and clinical approach to the care of patients in a developing country setting, utilizing locally available resources, and applying principles of evidence-based decision-making and problem-solving to care. Students learn about and understand the cultural customs prior to the international experience.

CLME 9575 Study Elective II
The Study Elective II rotation is a four-week elective designed for students to work through a structured study plan to prepare for the COMLEX Level 2CE exam. The Study Elective contains structured elements including completion of a defined number of board exam style questions from pre-approved question banks, review of board exam relevant content from pre-approved resources, and meeting routinely with the Office of Academic Success. Additionally, students will have time for self-directed study to use additional board preparation resources throughout the four-week elective. To qualify for the Study Elective II rotation, students must have already completed both Wellness electives and receive approval from the Director of the Office of Academic Success, Associate Dean for Clinical Education, and the Associate Dean for Academic Affairs. Additionally, students must structure a study plan and study schedule with pre-approved resources for self-directed study for Study Elective I and Study Elective II; the self-directed study plan, study schedule and resources must be approved by the Director of the Office of Academic Success and must be submitted by the student no later than ten days prior to the start of the rotation.

CLME 9815 Primary Care Elective
The following guidelines are to be followed when applying for a Clerkship Primary Care Elective rotation (must be with Board Eligible or Board Certified physician, D.O. or M.D.):
- Primary Care electives include:
  - General Internal Medicine;
  - Family Practice/OMM;
Each student may request to utilize his or her Primary Care Elective rotations in a medical situation of their choosing, provided the rotation request fulfills guideline criteria.

T. Textbook Guidance

In an effort to provide students with pricing for textbooks that are required for the academic year, the following is a list of textbooks, ISBNs, and prices for each course. Please know that the OSU Medical Library makes every effort to provide free access to textbooks (https://medicine.okstate.edu/library/). This list may be updated throughout the year. Please check Leo for the most current list of required and recommended textbooks.

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<th>Course</th>
<th>Textbook Title</th>
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<tr>
<td>CLME 8313</td>
<td>The Difference a D.O. Makes, 1st Ed. Jones, Bob. Oklahoma Education Foundation</td>
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<td>Osteopathic Manual Medicine I</td>
<td>for Osteopathic Medicine, OKC. 1978.</td>
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<td></td>
<td>Foundations for Osteopathic Medicine, 3rd Ed. American Osteopathic Association</td>
<td>978-0781766715</td>
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<td>Lippincott, Williams &amp; Wilkins, Philadelphia. 2011.</td>
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<td>An Osteopathic Approach to Diagnosis and Treatment, 3rd Ed. DiGiovanna EL,</td>
<td>978-0781742931</td>
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<td>Glossary of Osteopathic Terminology, 3rd Ed. Giusti, R. American Osteopathic</td>
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<td></td>
<td>2014.</td>
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<td>Williams &amp; Wilkins, 2003.</td>
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<td>PCME 8116</td>
<td>Clinically Oriented Anatomy, 8th Ed. K. L. Moore, A. Dalley, and A. Agur.</td>
<td>978-1496347213</td>
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<td>Clinical Anatomy</td>
<td>Lippincott Williams &amp; Wilkins. 2018.</td>
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<td>Halliday. Wolters Kluwer / Lippincott Williams &amp; Wilkins. 2014.</td>
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<td></td>
<td>2015.</td>
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<td>PCME 8743</td>
<td>Thompson &amp; Thompson Genetics in Medicine, 8th Ed. Nussbaum, R.L, McInnes, R.R.</td>
<td>n/a</td>
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<td>Foundations in Genetics,</td>
<td>and Willard, H.F., Elsevier. 2015.</td>
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<td>Molecular Biology, and</td>
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<td>Sherris Medical Microbiology, 7th Ed. Kenneth Ryan, Mcgraw Hill Education. 2018.</td>
<td>978-1-259-85980-9</td>
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<td>Kaplan COMLEX-USA Level 1 Lecture Notes, Immunology and Microbiology. Alley, Keller and Moscatello, Kaplan. New York. 2020.</td>
<td>n/a</td>
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<td>Robbins and Cotran Pathologic Basis of Disease, 10th Ed.</td>
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<td>Medical Microbiology, 9th Ed. Murray, P.R., Rosenthal,</td>
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<td>K.S. and Pfafler, M.A. Elsevier</td>
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<td>CLME 8333</td>
<td>Osteopathic Manual</td>
<td>Foundations of Osteopathic Medicine, 3rd Ed. Chila, A.</td>
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<td>Lippincott, Williams &amp; Wilkins.</td>
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<td>An Osteopathic Approach to Diagnosis and Treatment,</td>
<td></td>
<td>3rd Ed. DiGiovanna EL, Schiowitz S. Philadelphia: Lippincott, Williams &amp;</td>
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<td></td>
<td>Foundations II</td>
<td>The 5-Minute Clinical Consult 2020: Gomella, LG.</td>
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<td>Clinician’s Pocket Reference, 28th Ed. Appletone and Lang</td>
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**Spring Semester**

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<td>An Osteopathic Approach to Diagnosis and Treatment, 3rd Ed. DiGiovanna EL, Schiwitz S. Philadelphia: Lippincott, Williams &amp; Wilkins, 2005.</td>
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<td>Foundations of Osteopathic Medicine, 3rd Ed. Chila, A. Lippincott, Williams &amp; Wilkins. 2011.</td>
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<td>Beckmann, et. al., Obstetrics and Gynecology, 8th edition.</td>
<td>978-1496353092</td>
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U. Information about Graduate Medical Education, Match Programs, and COMLEX Performance

ACGME
The Accreditation Council for Graduate Medical Education (ACGME) is an independent, not-for-profit, physician-led organization that sets and monitors the professional educational standards for graduate medical education essential to prepare physicians to deliver safe, high-quality medical care to all Americans. The ACGME accredits Sponsoring Institutions and residency and fellowship programs, confers recognition on additional program formats or components, and dedicates resources to initiatives addressing areas of import in graduate medical education. The ACGME employs best practices, research, and advancements across the continuum of medical education to demonstrate its dedication to enhancing health care and graduate medical education. The ACGME is committed to improving the patient care delivered by resident and fellow physicians today, and in their future independent practice, and to do so in clinical learning environments characterized by excellence in care, safety, and professionalism.

The Main Residency Match
The Main Residency Match is administered by the National Residency Matching Program (NRMP). The purpose of the Main Residency Match is to provide a uniform time for both applicants and programs to make their training selections without pressure. Through the Main Residency Match, applicants may be “matched” to programs using the certified rank order lists (ROL) of the applicants and program directors, or they may obtain one of the available unfilled positions through the Supplemental Offer and Acceptance Program®. The Main Residency Match is managed through the National Resident Matching Program’s (NRMP’s) Registration, Ranking, and Results® (R3®) system: http://www.nrmp.org/.

Programs that participate in the Main Residency Match include:

- Categorical-C: programs that begin in the PGY-1 year and provide the full training required for specialty board certification.
- Primary-M: categorical programs in primary care medicine and primary care pediatrics that begin in the PGY-1 year and provide the full training required for specialty board certification.
- Advanced-A: programs that begin in the PGY-2 year after a year of prerequisite training.
- Preliminary-P: or one-year programs that begin in the PGY-1 year and provide prerequisite training for advanced programs.
- Physician-R: programs that are reserved for physicians who have had prior graduate medical education. Reserved programs offer PGY-2 positions that begin in the year of the Match and thus are not available to senior medical students.
- Some specialties may offer both categorical and advanced type positions. Examples are Dermatology, Anesthesiology, Neurology, Physical Medicine and Rehabilitation, and Diagnostic Radiology.

The NRMP seeks to maintain the highest professional standards in the conduct of the Main Residency Match and in its interactions with all participants: Applicants, program directors, institutional officials, and medical school staff. All participants in the Main Residency Match must conduct their affairs in an ethical and professionally responsible manner.
manner and respect the right of applicants to freely investigate program options prior to submission of their rank order lists.

**Additional Matches**
- Military Match (instructions provided by individual military branches)


**Match Rates**
The Match rates for the past four years are shown below (all Matches and Scrambles Included):

- In 2021, OSU-COM had a graduating class of 118 with a 99.1% match rate.
- In 2020, OSU-COM had a graduating class of 109 with a 100% match rate.
- In 2019, OSU-COM had a graduating class of 102 with a 100% match rate.
- In 2018, OSU-COM had a graduating class of 104 with a 100% match rate.
- In 2017, OSU-COM had a graduating class of 102 with a 100% match rate.

**COMLEX-USA First-time Pass Rate Information**
The COMLEX-USA first-time pass rate information is as follows:

**COMLEX-USA Level 1 School Pass Rate**
- 2020 – 2021: 90.48%
- 2019 – 2020: 90.27%
- 2018 – 2019: 91.23%
- 2017 – 2018: 94.29%

**COMLEX-USA Level 2 CE School Pass Rate**
- 2020 – 2021: 95.83%
- 2019 – 2020: 97.22%
- 2018 – 2019: 98.11%
- 2017 – 2018: 93.46%

**COMLEX-USA Level 2 PE School Pass Rate**
- 2019 – 2020: 96.36%
- 2018 – 2019: 96.26%
- 2017 – 2018: 95.33%
- 2016 – 2017: 91.00%

**COMLEX-USA Level 3 School Pass Rate**
- 2019 – 2020: 95.83%
- 2018 – 2019: 99.36%
- 2017 – 2018: 93.50%
- 2016 – 2017: 97.27%

For more information about match rate, COMLEX-USA performance, and residency placements, see: [https://medicine.okstate.edu/com/admissions/graduates.html](https://medicine.okstate.edu/com/admissions/graduates.html).

V. D.O./M.B.A. Program
The Oklahoma State University Center for Health Sciences (OSU-CHS) offers a joint Doctor of Osteopathy and Master of Business Administration degree with Oklahoma State University Spears School of Business. Classes are held at the OSU-Tulsa campus, with an occasional course at the OSU Main Campus in Stillwater, OK, or available via distance learning.

Today's successful physicians must be able to excel on multiple levels. At Oklahoma State University, the M.B.A. Program is designed to integrate the knowledge, skills, and experiences necessary to help you achieve your career goals. The D.O./M.B.A. is an accelerated program that allows D.O. students to gain their M.B.A. through the Spears
School of Business in a single year. This 36-hour program captures 30 hours of the M.B.A.’s core coursework in the fall and spring semesters with six elective hours taken in the summer.

The M.B.A. curriculum is a blend of quantitative and behavioral classes, often with real-world applications, designed to reflect today’s integrated and global marketplace. While basic tools, theories, and concepts are a constant, modifications as a result of feedback from the M.B.A. advisory committee, industry, and alumni help keep the curriculum fresh, current, and timely.

The faculty, having varied academic, governmental, corporate and consulting backgrounds, bring real-world experience to the classroom. Students receive the necessary theoretical background but also learn about the latest trends and developments from faculty attuned to what is going on in the real world. Real-world applications may be in the form of a lecture, company-based consulting project, a practicum, or other means.

A. Admission Information

Types of Admission
Students may pursue the D.O./M.B.A. on one of two tracks: 2-1-2 or 1-4. Current students may apply for the dual degree on the 2-1-2 track at any time during their first or second year of medical school. New students admitted into the 1-4 track of the program must complete one full year of M.B.A. degree requirements, and remain in good standing per OSU M.B.A. standards (as outlined in the OSU M.B.A. Handbook), in order to retain deferred admission into the D.O. program.

Entrance Requirements
The D.O./M.B.A. program is open to current and selected new students of the College of Osteopathic Medicine with the approval of both the College and the M.B.A. Program. The Graduate Management Admissions Test (GMAT) and business prerequisites are not required.

B. Application Procedures
Current MS-I and MS-II students applying to the 2-1-2 track must make direct inquiry to the OSU Graduate College Office of Admissions before beginning the M.B.A. application process. Prospective students who wish to pursue application to the D.O./M.B.A. program on the 1-4 track must indicate so on the secondary application. Prior to beginning the M.B.A. application process, dual degree candidates for the 1-4 track must have a successful interview with an offer of deferred admission to the D.O. Program.

Upon the request of Admissions, applicants must submit the following:

- Official MCAT Score;
- D.O./M.B.A. Application;
- Statement of Objectives;
- 3 Letters of Recommendation;
- Graduate College Application (with $40 application fee);
- Official transcripts from all schools attended; and
- Resume.

Applications for the 2-1-2 track will only be accepted from current students in good academic standing. Students on Academic Probation will not be allowed to enter the program. The application review process begins upon receipt of the application package. Students are urged to submit their completed application package as early as possible. Applications are reviewed for admission once all required documentation has been received. A D.O./M.B.A. application is valid for one year from date of submission.

C. Tuition & Fees
Tuition and fees are approved by both the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges and the State Regents for Higher Education and are subject to change only after consideration in public meetings of those bodies.

Tuition
- Oklahoma Resident Tuition $ 230.45 per credit hour
- Non-Resident Tuition $ 876.40 per credit hour

Fees
Multiplied by the number of credit hours in which a student is enrolled
- Academic Facility Fee $ 24.65
- Academic Records and Maintenance Fee $ 4.35
• Advising/Assessment fee $ 10.85
• Daily O’Collegian fee $ 0.30
• Student Facility Fee, General $ 5.45
• Student Facility Fee, Campus Rec $ 3.00
• Health Services Fee $ 5.00
• Library Automation and Technology Fee $ 17.00
• Life Safety and Security Fee $ 6.45
• Student Activity Fee $ 2.50
• Student Activity Fee – Athletic Fee $ 5.50
• Student Development Fee $ 2.20
• Transit/Parking Services Fee $ 2.50
• University Technology and Infrastructure Maintenance Fee $ 11.65
• Academic Excellence Fee $ 15.50
• Student Union Renovation Fee $ 5.15

Other Fees
• Application $ 50.00

For more information regarding fees specific to the Spears School of Business, refunds, etc., please visit http://bursar.okstate.edu/tuition-and-fees.

Tuition and Fees are subject to change.

D. Financial Aid

Scholarships
Scholarships were established in 2004 by Stillwater National Bank, through the College of Business Administration, to provide scholarship assistance to current osteopathic medical students enrolling in the joint D.O./M.B.A. program. Scholarships will be awarded to a student in the D.O./M.B.A. program, with good academic standing and demonstrated financial need. Recipient will be required to attend Benefactor’s Luncheon and any additional activities as appropriate.

The Office of Financial Aid
The OSU Graduate College Office of Scholarships & Financial Aid is responsible for the administration of student financial aid and financial counseling to students applying for aid while the student is pursuing the MBA degree. Students who are interested in loans, scholarships, or work-study employment should apply to this office. The Free Application for Federal Student Aid (FAFSA) and other required applications may be obtained by contacting:

Office of Scholarships & Financial Aid
Oklahoma State University.
119 Student Union
Stillwater, OK  74078-5061

E. Curriculum & Course Descriptions

ACCT 5183 Financial Accounting
Development of the ability to read and to analyze financial statements and to use this information along with other types of information in decision-making.

FIN 5013 Business Finance
An introduction to the major areas of business finance: the financial environment in which business decisions are made and the institutions found therein, the financial management practices of a firm securing financing and allocating resources among competing alternatives, and the valuation of financial assets available to the firm and individuals.

MGMT 5113 Management & Organizational Theory
Contemporary theories of organization. Structure and dynamics of organizational goals and environment.

MKTG 5133 Marketing Management
Consideration at an advanced level of the major elements of marketing from the point of view of the marketing executive. Emphasis on problem solving and decision-making, using an interdisciplinary approach. Development of an integrated, comprehensive marketing strategy.
Elective choice or (LSB 5163, MKTG 5633 or MGMT 5073)

Second Semester – Spring (15 credit hours)

ACCT 5283 Managerial Accounting
Interpretation of accounting data in planning, controlling and decision-making.

Finance or Analytics option: Fin 5053 or any other 5000 level FIN class; Analytics-MKTG 5733 Intro to Mktg Analytics

Elective choice or (LSB 5163, MKTG 5633 or MGMT 5073)

MGMT 5303 Corporate Strategy
Key issues in formulation and implementing business and corporate strategies. The orientation of top management, diagnosis of what is critical in complex business situations and realistic solutions to strategic and organizational problems.

MSIS 5303 Quantitative Methods
Applications of quantitative techniques to business problems. Linear programming, transportation and assignment models, goal programming, integer programming and networks.

Third Semester (6 credit hours)
To be determined.

VI. D.O./M.P.H. Program

The Oklahoma State University Center for Health Sciences (OSU-CHS) offers a joint Doctor of Osteopathic Medicine and Master of Public Health degree with emphasis on Rural and Underserved Populations with the Oklahoma State University Graduate College. Classes are held at the OSU Main Campus in Stillwater, OK, OSU-CHS, and online.

Today’s successful physicians must have an explicit understanding of cultural determinants of health and population health to be able excel on multiple levels. At Oklahoma State University, the M.P.H. program emphasizes the determinants of health for rural and underserviced populations. The program is designed to integrate the knowledge, skills, and experiences necessary to help you achieve your career goals. The D.O./M.P.H. is an accelerated program that allows D.O. students to gain their M.P.H. in one calendar year, by allowing D.O. coursework to serve as elective coursework for the M.P.H. degree. This 42-hour program captures 27 hours of the M.P.H.’s core coursework in the fall and spring semesters with an additional six required hours taken in the summer. All students are required to complete a practicum (3 credit hours) or a thesis (6 credit hours) as part of the MPH program; these activities typically occur during MS-II and later.

The M.P.H. curriculum is a blend of behavioral and public health skill building coursework, often with real-world applications, designed to reflect today’s emphasis on population medicine. The curriculum will be continuously updated based on feedback from students, the advisory committee, local health departments, and alumni; however, the underlying philosophy of public health and content areas required by our accrediting body will remain constant.

A. Admission Information

Types of Admission
Students may pursue the D.O./M.P.H. on one of two tracks: 2-1-2 or 1-4. Current students may apply for the dual degree on the 2-1-2 track at any time during their first or second year of medical school. New students admitted into the 1-4 track of the program must complete one full year of M.P.H. degree requirements, and remain in good standing per OSU M.P.H. standards (as outlined in the OSU M.P.H. Student Handbook), in order to retain deferred admission into the D.O. program.

Entrance Requirements
The D.O./M.P.H. program is open to current and selected new students of the College of Osteopathic Medicine with the approval of both the College and the M.P.H. Program.
International Students
The M.P.H. program requires a minimum score of 90 on the internet-based Test of English as a Foreign Language (TOEFL) (minimum subscales: Speaking – 26, Reading – 22, and Writing – 24) or 6.5 on the International English Language Testing System (IELTS). Note that submission of an internet-based TOEFL score may be necessary if employment as a graduate teaching assistant/associate is desired. Please refer to departmental information/website for any such requirements for employment as a teaching assistant/associate.

B. Application Procedure
Current MS-I and MS-II students applying to the 2-1-2 track must make direct inquiry to the Office of Admissions before beginning the M.P.H. application process. Prospective students who wish to pursue application to the D.O./M.P.H. program on the 1-4 track must indicate so on the secondary application. Prior to beginning the M.P.H. application process, dual degree candidates for the 1-4 track must have a successful interview with an offer of deferred admission to the D.O. Program.

Upon the request of Admissions, applicants must submit the following:
- D.O./M.P.H. Application;
- Statement of Purpose;
- 3 Letters of Recommendation;
- Graduate College Application (with $40 application fee);
- Official transcripts from all schools attended; and
- Resume.

Applications for the 2-1-2 track will only be accepted from current students in good academic standing. Students on Academic Probation will not be allowed to enter the program. The application review process begins upon receipt of the application package. Students are urged to submit their completed application package as early as possible. Applications are reviewed for admission once all required documentation has been received. A D.O./M.P.H. application is valid for one year from date of submission.

C. Tuition & Fees
Tuition and fees are approved by both the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges and the State Regents for Higher Education and are subject to change only after consideration in public meetings of those bodies.

- **Tuition**
  - Oklahoma Resident Tuition  $ 230.45 per credit hour
  - Non-Resident Tuition  $ 876.40 per credit hour

- **Fees**
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  - Academic Records and Maintenance Fee  $ 4.35 per credit hour
  - Advising/Assessment fee  $ 10.85 per credit hour
  - Daily O’Collegian fee  $ 0.30 per credit hour
  - Student Facility Fee, General  $ 5.45 per credit hour
  - Student Facility Fee, Campus Rec  $ 3.00 per credit hour
  - Health Services Fee  $ 5.00 per credit hour
  - Library Automation and Technology Fee  $ 17.00 per credit hour
  - Life Safety and Security Fee  $ 6.45 per credit hour
  - Student Activity Fee  $ 2.50 per credit hour
  - Student Activity Fee – Athletic Fee  $ 5.50 per credit hour
  - Student Development Fee  $ 2.20 per credit hour
  - Transit/Parking Services Fee  $ 2.50 per credit hour
  - University Technology and Infrastructure Maintenance Fee  $ 15.00 per credit hour
  - Academic Excellence Fee  $ 15.50 per credit hour
  - Student Union Renovation Fee  $ 5.15 per credit hour

Other academic fees vary. Please see website for details.

- **Other Fees**
  - Application  $ 50.00

For more information regarding fees specific to the Spears School of Business, refunds, etc., please visit [http://bursar.okstate.edu/tuition-and-fees](http://bursar.okstate.edu/tuition-and-fees).
Tuition and Fees are subject to change.

D. Financial Aid

The Office of Financial Aid

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Office of Scholarships & Financial Aid
Oklahoma State University
119 Student Union
Stillwater, OK 74078-5061

E. Curriculum & Course Descriptions

First Semester – Fall (12 credit hours)

HCA 5013 Survey of Health Care Administration.
Overview of current issues in health care administration that relate to planning, legal, ethical and other related topics.

MPH 5543 Leadership, Policy, and Ethics in Public Health
This course investigates major theories, models and competences of leadership, current public health issues and challenges, ethical issues, and approaches to enhance health outcomes at the individual, team, community, and policy level.

MPH/HLTH 5653 Foundations of Public Health Education & Promotion
Exploration of key concepts, philosophies, ethical principles, historical events, theories/models, and responsibilities and competencies of public health promotion.

MPH/HLTH 5683 Health Behavior Theory & Practice for Public Health
Theories and concepts of health behavior change and exploration of the application of theories to public health programs.

Second Semester – Spring (12 credit hours)

MPH 5203 Evidence-Based Approaches to Public Health
The purpose of this class is to introduce students to concepts and methods of quantitative, biostatistical analysis and qualitative analysis. Topics for the class include selecting appropriate data collection methods, data analysis including use of statistical packages. This course will cover the qualitative methods and analysis; quantitative methods include descriptive statistics, standard probability distributions, sampling distributions, confidence interval estimation, hypothesis testing, power and sample size estimation, parametric and non-parametric methods for analyzing continuous or categorical data, and simple linear regression.

MPH/HLTH 5453 Cultural Issues in Health
Examination of ways in which culture affects health and health care including perceptions of health, disease, treatments, and the values associated with these factors. The need for cultural sensitivity in health care is emphasized.

MPH/HLTH 5973 Designing Public Health Programs
Application of program design principles, including needs assessment, theoretical application, program planning and marketing.

MPH/HLTH 5983 Implementation and Evaluation of Public Health Programs
Application of program implementation and evaluation, including evaluation design.
Summer (6 credit hours)

MPH/HLTH 5133 Environmental Health
Examination of health issues, etiology of disease, and control and prevention of major environmental health problems in industrialized and developing countries.

MPH/HLTH 5323 General Epidemiology
Examination of epidemiological theory and its methodological application to public health.

MS-II, MS-III, or MS-IV (3 credit hours)

MPH 5030 Practicum in Public Health
The Council on education for Public Health (CePH) requires that all students engage in a culminating experience that combines public health knowledge and skills. This 200-hour experience allows direct application of course content in an applied setting under guidance and supervision from faculty and community supervisors. The goals of this experience is to enrich classroom activity with practical understanding. Placement sites require prior approval from a committee comprised of one core and two affiliate public health faculty. Placement sites may include governmental or non-governmental organizations, community-based organizations, applied public health field research, health service settings (including those in universities and schools), or worksite wellness programs. This 200-hour experience can be conducted as part of the MS-III or MS-IV clinical practicum, as approved by the Committee.

VII. Graduate Programs in Biomedical Sciences

Program Description
The Biomedical Sciences Graduate Program at Oklahoma State University, Center for Health Sciences (OSU-CHS) provides students with a foundation in biomedical sciences that is broadly applicable to many disciplines including anatomy, biochemistry, cell biology, microbiology, pathology, pharmacology, and physiology. M.S., Ph.D., D.O./M.S. and D.O./Ph.D. degree programs in Biomedical Sciences are offered and each degree program has specific requirements as described below. Students pursuing a graduate degree in Biomedical Sciences will develop a plan of study that includes both required courses and courses pertinent to their area of interest (e.g., anatomy, histology, pathology, pharmacology, etc.). Additionally, students will conduct research under the guidance of a graduate faculty mentor.

A. Admission Information and Application Procedure

Minimum Admission Requirements
Listed below are the minimum admission requirements for the M.S., Ph.D., D.O./M.S. and D.O./Ph.D. degree programs. Under certain circumstances, a student may be accepted into the program without meeting all of the requirements written below.

• All degree programs: Prospective students must have earned a baccalaureate degree and completed coursework in the physical and life sciences (e.g., biology and chemistry). Applicants are also expected to have an undergraduate grade point average (GPA) of at least 3.0 on a 4.0 scale. The M.S. and Ph.D. programs accept international applicants on F-1 student visas and other types of visas eligible for study in the United States. Non-U.S. citizens must have a permanent resident visa to be considered for the dual degree programs.

• Additional requirements for M.S. and Ph.D. degree programs: Applicants to the Anatomy and Vertebrate Paleontology Track are expected to have completed coursework in Sedimentology and Stratigraphy, or to have field experience that provides familiarity with these subjects.

• Additional requirements for D.O./M.S. degree program: Applicants to the D.O./M.S. program are expected to have earned a minimum score of 492 on the Medical College Admissions Test (MCAT). Non-U.S. citizens must have a permanent resident visa to be considered for the dual degree programs.

• Additional requirements for D.O./Ph.D. degree program: Applicants to the D.O./Ph.D. program are required to have earned a score of 512 or greater on the MCAT. Non-U.S. citizens must have a permanent resident visa to be considered for the dual degree programs.

International Student Admission
International students for whom English is a second language are required to have earned a Test of English as a Foreign Language (TOEFL) score of at least 550 (213 computer based or 79 internet-based).
Application Procedure
Initial inquiries and correspondence may be sent directly to chsgradprograms@okstate.edu. Applicants to the Biomedical Sciences graduate program should apply online at the OSU Graduate College, https://gradcollege.okstate.edu/apply/.

The following application materials are required as part of the application procedure for the Biomedical Sciences Graduate Program:

• All Degree Programs:
  • An online application is available at the OSU Graduate College application website, https://gradcollege.okstate.edu/apply/.
  • Upload unofficial transcripts within the online application from each college and university attended; official transcripts will be requested only after admission.
  • Application fee of $50 ($75 for international applicants).
  • Test scores for the GRE, MCAT and Test of English as a Foreign Language (TOEFL) examinations, as appropriate.
  • Three letters of recommendation from persons familiar with the educational background of the applicant. Comments should be made regarding the applicant's research experience and expected motivation and productivity in research. Recommenders upload letters to the application via a unique link prompted by the applicant's input of the recommender's email address within the online application.
  • A “Personal Statement” that addresses the applicant's research interests and the importance of a graduate degree to the applicant’s future. Applicants are also encouraged to identify Biomedical Sciences graduate faculty with whom they are interested in working.

• D.O./M.S. Degree Program:
  Students wishing to receive deferred admission to the medical school and complete their M.S. coursework prior to the first year of medical school should indicate their interest in the D.O./M.S. degree on the OSU secondary application for medical school. Only students who successfully complete an on-campus interview for the D.O. program will be considered for this track.
  • Application Materials for the M.S. portion of the D.O./M.S. program
    ▪ Applicants submit their application online. The application is found on the web at the OSU Graduate College, https://gradcollege.okstate.edu/apply/.
    ▪ Three letters of recommendation from individuals familiar with the educational background of the applicant. At least one letter should contain comments regarding the applicant's research experience and expected motivation and productivity in research. Letters of recommendation submitted to the DO program can be forwarded to the School of Biomedical Sciences, if requested.
    ▪ Submit a Personal Statement that addresses (a) the applicant's research interests and (b) why the applicant desires to pursue a dual degree and (c) Account of applicant's research experience, including topics, techniques, presentations and publications, if any. Identifying graduate faculty as potential advisor is encouraged.

In addition to submitting the graduate application materials listed above, dual degree students must apply separately to the D.O. program. Consult the D.O. admissions page, https://medicine.okstate.edu/com/admissions/how-to-apply.html, for a complete list of application materials and procedures. The deadline for submitting all secondary application materials is March 1.

• D.O./Ph.D. Degree Program:
  Students wishing to receive admission to the medical school and the Ph.D. program should indicate their interest in the D.O./Ph.D. degree on the OSU secondary application for medical school. Only students who successfully complete an on-campus interview for the D.O. program will be considered for this track.
  • Application Materials for the Ph.D. portion of the D.O./Ph.D. program
    ▪ Applicants submit their application online. The application is found on the web at the OSU Graduate College, https://gradcollege.okstate.edu/apply/.
    ▪ Three letters of recommendation from individuals familiar with the educational background of the applicant. At least one letter should contain comments regarding the applicant’s research experience and expected motivation and productivity in research. Letters of recommendation submitted to the DO program can be forwarded to the School of Biomedical Sciences, if requested.
    ▪ Submit a Personal Statement that addresses (a) the applicant's research interests and (b) why the applicant desires to pursue a dual degree and (c) Account of applicant's research experience, including topics, techniques, presentations and publications, if any. Identifying graduate faculty as potential advisor is encouraged.
experience, including topics, techniques, presentations and publications, if any. Identifying graduate faculty as potential advisor is encouraged.

In addition to submitting the graduate application materials listed above, dual degree students must apply separately to the D.O. program. Consult the D.O. admissions page, https://medicine.okstate.edu/com/admissions/how-to-apply.html, for a complete list of application materials and procedures. The deadline for submitting all secondary application materials is March 1.

B. Tuition, Fees and Financial Aid
Tuition and fees are approved by both the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges and the State Regents for Higher Education and are subject to change only after consideration in public meetings of those bodies.

Tuition
• Oklahoma Resident $230.45 per credit hour
• Non-Resident $876.40 per credit hour

Fees
• Supplemental Off-Campus Fee (Web Courses) $25.00 per credit hour
• Technology Services Fee $10.41 per credit hour
• Library Automation Fee $7.50 per credit hour
• Security Services Fee $4.00 per credit hour
• Student Activity Fee $7.72 per credit hour
• Academic Records Fee $3.35 per credit hour
• Wellness Center Fee (On-Campus Courses Only) $7.29 per credit hour
• Student Facility Fee $15.20 per credit hour
• Student Union Fee (On-Campus Courses Only) $5.00 per credit hour
• Printing Fee (On-Campus Students Only) $1.53 per credit hour
• Laboratory Fee (On-Campus Lab Courses) $125.00 per course
• Student Health Fee $64.00 per semester
• Graduate College Program Fee $2.50 per credit hour

Other Fees
• Application Fee $50 ($75 for International Students)

Tuition and Fees are subject to change.

Stipends/Assistantships
Stipends associated with Graduate Research and Teaching Assistantships are available to full-time Ph.D. students on a competitive basis from the School of Biomedical Sciences. For students with and without stipend support, other forms of financial aid may be available from departments, faculty research grants or through the Office of Scholarships and Financial Aid.

The Office of Scholarships and Financial Aid
The Office of Scholarships & Financial Aid is responsible for the administration of student financial aid and financial counseling to students applying for aid. Students who are interested in loans, scholarships, or work-study employment should apply to this office. The Free Application for Federal Student Aid (FAFSA) and other required applications may be obtained by contacting:
Office of Scholarships & Financial Aid
Oklahoma State University
119 Student Union
Stillwater, OK 74078-5061

C. Student Information & Academic Regulations (All Biomedical Sciences Degree Programs)

Academic Probation and Dismissal
Courses are graded A, B, C, D or U on a 4.0 scale, unless specified as pass/fail. Graduate students are expected to make a “B” or better in all courses on the Plan of Study and to maintain a cumulative GPA of 3.0 or higher. Students must also meet the minimum requirements of the Graduate College as specified in the University Catalog. For Thesis (5000) and Dissertation (6000): A grade of “SR,” indicating satisfactory research progress, or “UR,” indicating unsatisfactory progress will be assigned to thesis (5000) and dissertation (6000) courses at the end of the semester.
in which the hours are taken. These grades are permanent and have no impact on a student’s grade point average. Graduate students are expected to make a grade of “SR” for all thesis or dissertation hours; only hours for which “SR” is earned may be used toward minimum degree requirements on the Plan of Study.

One of the following actions may be taken for students failing to meet the academic criteria detailed above:

- **Written Notice** – The Coordinator/Director of the Biomedical Sciences graduate program will notify, in writing, the advisor of students who earn a “C” grade or lower and will counsel students on the consequences of continued substandard performance.

- **Academic Probation** – Students will be placed on academic probation if their cumulative GPA drops below 3.0, if one or more “C” grades are earned two semesters in a row, or if a UR grade is given. Once placed on academic probation, students are expected to raise their cumulative GPA to 3.0 or higher by the end of next semester.

- **No Further Enrollment Without Department Consent (NFEWDC)** – Students may be placed on NFEWDC if they do not raise their cumulative GPA to a 3.0 or higher while on academic probation, or if 2 consecutive “UR” grades are earned. Once placed on NFEWDC, an enrollment hold is placed on the student. To be reinstated into the program, the student must petition the Coordinator/Director of the Biomedical Sciences graduate program by submitting a plan for improvement and a guarantee of minimal performance. This plan must be submitted within one semester of being placed on NFEWDC and the Coordinator/Director of the Biomedical Sciences graduate program and BSGC must approve the plan. Failure to submit this plan or receive approval from the BSGC and the Coordinator/Director of the Biomedical Sciences graduate program will result in dismissal.

- **Dismissal/No Further Enrollment (NFE)** – Students may be dismissed from the Biomedical Sciences Graduate Program if they do not meet the goals agreed upon in their improvement plan (see NFEWDC). The student’s advisory committee will recommend dismissal to the BSGC as soon as it learns that the student has not met the goals of their improvement plan. The BSGC will then review the student’s entire academic record, consult with student’s advisory committee, and then conduct a personal interview with the student. The BSGC will then consider the information collected and make a recommendation as to whether the student should be dismissed to the Coordinator/Director of the Biomedical Sciences Graduate Program. If the BSGC recommends dismissal, the Coordinator/Director of the Biomedical Sciences Graduate Program will forward the recommendation to the Vice Provost of Graduate Programs. If any members of the advisory committee or BSGC disagree with the majority decision to recommend dismissal, they may submit their concerns in writing to the Vice Provost of Graduate Programs. The Vice Provost of Graduate Programs will use the recommendation, and any submitted concerns, in making the final decision. If the Vice Provost of Graduate Programs decides to dismiss the student, the student can appeal the decision through the OSU Graduate College.

**Major Advisor, Advisory Committee and Plan of Study**

Students must select a major advisor before beginning their second semester. The principal role of the advisor is to guide graduate students as they progress through the program and to direct research and the selection of graduate coursework. A designated faculty member will provide guidance to graduate students until students select a major advisor. The major advisor may serve as the chair of the advisory committee. The chair of the advisory committee must be a member of the Biomedical Sciences Graduate Faculty.

The advisory committee is chosen by the student in consultation with the major advisor. The committee must be selected prior to beginning the second year. Members of the advisory committee must be graduate faculty and be approved by the Biomedical Sciences Graduate Committee (BSGC). Advisory committees are required to meet once a year.

M.S. degree advisory committees shall consist of at least three members of the Biomedical Sciences Graduate Faculty, whereas Ph.D. degree advisory committees shall consist of at least three members of the Biomedical Sciences Graduate Faculty and one outside member. The outside member must be from outside the Biomedical Sciences Graduate Program and a member of the OSU Graduate Faculty with an OSU appointment. The outside member represents the OSU Graduate College and evaluates the advisory committee in the overall handling of the student. Outside members may participate in the evaluation of the student (e.g., qualifying exam, research proposal, writing of the dissertation, oral defense), though they are not required to do so. Additional faculty may be added.

The plan of study, which lists course work and research, is developed by the student in consultation with the major advisor and advisory committee. The Plan of Study must be submitted to and approved by the BSGC prior to the end of the 2nd semester (excluding summer sessions) of enrollment for the M.S. degree and prior the end of the 3rd semester (excluding summer sessions) of enrollment for the Ph.D. degree.
Annual Graduate Student Review

The BSGC conducts a formal review of each graduate student at the end of the spring semester each year. The goals of this review are:

1. To assess the progress of students through the Biomedical Sciences Graduate Program;
2. To give graduate students an opportunity to evaluate whether personal goals are being met; and
3. To give graduate students an opportunity to plan for the next academic year.

Enrollment Status

After acceptance into the Biomedical Sciences Graduate Program, students matriculate with their first enrollment. Continuous enrollment is required thereafter until all degree requirements are completed. If the degree requirements are not completed (to include completing course requirements, sitting for comprehensive exams, research leading to a thesis or dissertation, writing and defending a thesis or dissertation, revising a thesis or dissertation, etc.) by the end of the second year of the M.S. program, the fourth year of the Ph.D. program, or the seventh year of the D.O./Ph.D. program, the student must enroll in Research and Thesis or Research and Dissertation for two hours per semester until the degree requirements are completed.

Full time status – To be considered full time in a fall or spring semester, domestic graduate students must enroll in at least nine graduate credit hours; full time enrollment during the summer semester requires at least two graduate credit hours. Domestic graduate students holding a 0.5 FTE (full time employee) or greater assistantship must enroll in at least six graduate credit hours in a fall or spring semester to be considered full time. Generally, a domestic graduate student must enroll in a minimum of four graduate credit hours to qualify for federal student loans and must enroll in at least nine graduate credit hours to qualify for the full amount of federal financial aid (students should contact the Scholarship and Financial Aid office for complete details). M.S. students must spend at least one semester and Ph.D. students must spend at least one year as a full-time student.

Part-time status – M.S. or Ph.D. students may enroll in the programs on a part-time basis (i.e., 2 – 9 graduate credit hours for fall or spring semester; 2 graduate credit hour for the summer semester) for coursework but not for research. A student must be enrolled in at least two (2) credit hours to utilize faculty or campus resources.

In addition to the above requirements for domestic students, international students on an F-1 or J-1 nonimmigrant visa are required to be enrolled full time in each fall and spring semester to maintain their immigration status, as recorded on the SEVIS system. International students need not to be considered full-time in their final semester. Students should verify final semester status by completing the “Final Semester Verification” form. Note that this form, which requires approval of the advisor, Coordinator/Director of the Biomedical Sciences Graduate Program, and Vice Provost of Graduate Programs, must be completed before the end of the second week of the final semester; otherwise the full-time requirement will apply.

Commencement

Participation in the OSU-CHS annual Commencement ceremony in the spring welcomes students who have completed all degree requirements (in the previous fall, current spring, or subsequent summer terms). Students are expected to be present at the official Commencement exercises when the M.S. and Ph.D. degrees are awarded. Diplomas will not be released until all degree requirements have been satisfied including submission of copies of the thesis or dissertation and payment of fees.

Research Thesis and Dissertation

A research thesis is required for students pursuing a thesis option M.S. degree and a research dissertation is required for students pursuing a Ph.D. degree. The format should adhere to the Graduate College Style Manual, available online in the Graduate Student Canvas Community https://canvas.okstate.edu/courses/31330. A public defense of the thesis or dissertation is a requirement for students in the M.S. degree and the Ph.D. degree programs, respectively. A notice indicating the date, location and time of the thesis or dissertation defense must be posted at least 10 days prior to the defense. Additionally, a final draft copy of the thesis or dissertation must be available on the day that the advertisement for the defense is posted. The format of the defense is up to the major advisor but must include an opportunity for the audience to ask questions.

The student must submit both an Oral Defense Approval form and a Signature/Approval page signed by the thesis/dissertation Faculty Advisory Committee to the Graduate College. Electronic submission of the thesis must follow the rules of the Graduate College. The student must submit final and approved copies to the Center for Health Sciences Office of Graduate Program.
D. Master of Science (M.S.) in Biomedical Sciences

Degree Requirements
Students in the M.S. degree program take required courses, as well as elective courses in a specific area of interest. Additionally, M.S. students conduct original research under the guidance of a Biomedical Sciences graduate faculty advisor. The M.S. degree program in Biomedical Sciences has a thesis option and a non-thesis option. Each option has different course work and research requirements that total 30 or 32 semester credit hours. Admission requirements are described in Admission Requirements, Application Procedure and Application Materials.

**Thesis Option** (total 30 hours): A minimum of 24 hours of course work and six hours of research and thesis. Students pursuing this option will conduct original research, culminating in a written thesis that is presented as a seminar and publicly defended.

**Non-Thesis Option** (total 32 hours): A minimum of 30 hours of course work and two hours of research. Students pursuing this option will conduct original research and present a written report based on the research project to their advisory committee and present a poster at a research symposium.

In addition, there is an Anatomy and Vertebrate Paleontology track M.S. degree program. Students pursuing this track are trained to teach human anatomy at the university, college or professional level, and will gain experience in vertebrate paleontology research under the guidance of a Biomedical Sciences graduate faculty mentor. **This track has no non-thesis option.**

Credit for Course Work
Students in the M.S. degree program will take both required (see Table 1) and elective courses to fulfill the degree requirements. All required courses must be taken at OSU-CHS. Note that course work requirements differ depending on the track (i.e., Biomedical Sciences or Anatomy and Vertebrate Paleontology) as indicated in Table 1, 2, and 3. A maximum of three hours of Special Topics course credits may count towards a student’s degree requirements.

<table>
<thead>
<tr>
<th>Table 1. Required Courses: Biomedical Sciences Track</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course #</td>
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<tr>
<td>BIOM 6922</td>
</tr>
<tr>
<td>BIOM 6662</td>
</tr>
<tr>
<td>Statistics</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Table 2. Required Courses: Anatomy and Vertebrate Paleontology Track</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course #</td>
</tr>
<tr>
<td>BIOM 5116</td>
</tr>
<tr>
<td>BIOM 6662</td>
</tr>
<tr>
<td>Statistics</td>
</tr>
<tr>
<td>Microanatomy</td>
</tr>
<tr>
<td>BIOM 5641</td>
</tr>
</tbody>
</table>

**Additional Expectations for the Anatomy and Vertebrate Paleontology Track:** Students in the Anatomy and Vertebrate Paleontology track are expected to:
- Enroll in Gross Anatomy in the first semester.
- Write grant proposals, starting in the first semester, with the help of the researcher.
- Enroll in three credits of BIOM 6723, Geology and Vertebrate Paleontological Field Methods, in the first summer.
- Attend paleontological lab meetings every week during the Fall and Spring semesters.

Credit for Research
Students pursuing the thesis option are required to take six semester credit hours of research and thesis, whereas students pursuing the non-thesis option are required to take a minimum of two semester credit hours of research.
Research Project
Students pursuing the thesis option must conduct a research project under the guidance of their advisor. In addition, these students must write a thesis that describes their research, present a seminar based on the thesis research, and publically defend the thesis (see Research Thesis and Dissertation). The advisory committee must approve the thesis and defense.

Students pursuing the non-thesis option are required to complete a research project under the guidance of their advisor and advisory committee. This research typically will culminate in a written report that is presented to and must be approved by the advisory committee; however, a presentation given at a state, national, or international meeting based on the project also may be approved by the committee.

Transfer Hours
Students in the M.S. degree program may transfer a maximum of 9 hours of graduate credit from an accredited graduate program provided.
- Transfer credit is recommended by the major advisor and advisory committee and approved by the dean of the Graduate College through submission and approval of the Plan of Study;
- Transfer credit is approved by the BSGC and the Coordinator/Director of the Biomedical Sciences Graduate Program;
- Students transferring graduate credit must have been enrolled in a graduate program at another institution and the course or courses transferred must be recognized as graduate courses by that institution;
- Students must have earned a grade of “B” or better in all graduate courses transferred.

Time of Study and Residence Requirements
The minimum time for a student to complete the M.S. program, recognizing the sequence of required courses, is one and a half years. However, full-time students typically complete the M.S. degree program in two years. Students in the M.S. program are expected to enroll as full-time students (see Additional Requirements and Information (All Degree Programs, Enrollment Status) in at least one semester and to complete the degree requirements within seven years.

Additional Requirements and Program Information
Additional requirements and information pertinent to the M.S. degree program are described in Additional Requirements and Information (All Degree Programs).

E. Doctor of Osteopathic Medicine and Master of Science (D.O./M.S.) Degree Program

Degree Requirements
Students in the D.O./M.S. program must complete requirements for both the D.O. medical and M.S. graduate degrees. The requirements for the M.S. degree component of the D.O./M.S. degree are similar to those described in Master of Science (M.S.) in Biomedical Sciences. However, as described below, some aspects are unique to the D.O./M.S. degree program.

Students in the D.O./M.S. degree program may do either the thesis or non-thesis option for the M.S. degree. As shown in Table 4, students pursuing a D.O./M.S. degree with a thesis option typically will take 20 semester credit hours of course work in the first year of the program along with 6-8 research credit hours, whereas students pursuing the non-thesis option typically will take 20 semester credit hours of course work in the first year of the program along with 2 research credit hours.

At the end of their first year, students in good academic standing, defined as maintaining a GPA of 3.0 or greater, (see Additional Requirements and Information – All Degree Programs – Grades), will matriculate into the D.O. program as a first year student (MS-I) for the following year. If good academic standing is not maintained, matriculation into the D.O. program may be delayed.

Overview of D.O./M.S. Degree Program:
- Year 1: Enroll in graduate courses (see Table 1, Required Courses) and research to fulfill requirements for degree program;
- Year 2: Enter first year of medical school as MS-I and work toward completing all M.S. degree requirements (including coursework and research); and
- Years 3 – 5: Complete requirements for the D.O. degree.
Credit for Course Work
In the first year of the D.O./M.S. program, all students are required to take a minimum of 12 hours in the Fall semester and 8 hours in the Spring semester, with up to 6 credit hours in the Summer semester (see Table 4). D.O./M.S. students may take up to three hours of special topics.

The student’s major advisor and advisory committee (see Major Advisor, Advisory Committee and Plan of Study) will provide guidance for selecting elective course work and ensuring that the course work fits each student’s educational needs.

Credit for Research
As described in Master of Science (M.S.) in Biomedical Sciences, students pursuing the thesis option are required to take a minimum of six semester credit hours of research and thesis, whereas students pursuing the non-thesis option are required to take a minimum of two semester credit hours of research.

Research Project
As described in Master of Science (M.S.) in Biomedical Sciences, students pursuing the thesis option must conduct a research project under the guidance of their advisor and advisory committee, and write, present, and publicly defend a thesis. As described in Master of Science (M.S.) in Biomedical Sciences, students pursuing the non-thesis option are required to complete a research project under the guidance of their advisor and advisory committee, submit a written report, and present a poster at a research symposium.

Transfer Hours
All required courses must be taken at OSU-CHS. Up to 9 semester credit hours may be transferred from the course work taken as an MS-I student (i.e., year 2 of the D.O./M.S. degree program) and applied toward the M.S. degree, provided that students have earned a grade of “B” or better in transferred course work credits. Since up to 9 hours may be transferred from the medical school courses, D.O./M.S. students are typically not allowed to transfer graduate credit from other institutions.

OSU-COM will only accept courses for credit that have been completed at an institution that is accredited by the Commission on Osteopathic College Accreditation (COCA) or the Liaison Committee on Medical Education (LCME). Therefore, credits for OSU-Center for Health Sciences (CHS) Graduate courses that were completed as a component of a graduate degree/certificate cannot be transferred to a COM degree.

Time of Study and Residence Requirements
D.O./M.S. students are encouraged to complete the M.S. portion of the degree in two years (i.e., by the summer between MS-I and MS-II) and must complete the entire program within seven years. The M.S. degree is conferred when the graduate degree requirements are complete.

F. Doctor of Philosophy (Ph.D.) in Biomedical Sciences

Degree Requirements
Students in the Ph.D. program take required courses, as well as elective courses in a specific area of interest. Additionally, Ph.D. students take a comprehensive qualifying examination, conduct original research under the guidance of a Biomedical Sciences graduate faculty advisor, present a research seminar, and write and publicly defend a dissertation. Admission requirements and materials for the Ph.D. degree program are described in Admission Requirements, Application Procedure and Application Materials.

An Anatomy and Vertebrate Paleontology track is also offered in the Ph.D. degree program. Students pursuing this track are trained to teach human anatomy at the university, college or professional level, and conduct original research in vertebrate paleontology under the guidance of a Biomedical Sciences graduate faculty advisor.

Credit for Course Work
Students in the Ph.D. degree program are required to take a minimum of 20 semester hours of course work. This includes required courses (see Table 4) which must be taken at OSU-CHS and elective courses to fulfill the degree requirements. Student’s major advisor and advisory committee (see Major Advisor, Advisory Committee and Plan of Study) will provide guidance for selecting elective course work to ensure that the Ph.D. program fits the student’s educational needs and career goals. Note that course work requirements differ depending on the track (i.e., Biomedical Sciences or Anatomy and Vertebrate Paleontology) as indicated in Tables 4 and 5.
Table 4. Required Courses: Biomedical Sciences

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM 6922</td>
<td>Scientific Communication in the Biomedical Sciences</td>
<td>2</td>
</tr>
<tr>
<td>BIOM 6662</td>
<td>Research Ethics and Survival Skills for the Biomedical Sciences</td>
<td>2</td>
</tr>
<tr>
<td>Statistics</td>
<td>Statistics for Experimenters II (or equivalent)</td>
<td>3</td>
</tr>
</tbody>
</table>

Table 5. Required Courses: Anatomy and Vertebrate Paleontology Track

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOM 5116</td>
<td>Clinical Gross Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>BIOM 6662</td>
<td>Research Ethics &amp; Survival Skills for the Biomedical Sciences</td>
<td>2</td>
</tr>
<tr>
<td>Statistics</td>
<td>Statistics for Experimenters II (or equivalent)</td>
<td>3</td>
</tr>
<tr>
<td>Microanatomy</td>
<td>Development &amp; Histology (or equivalent)</td>
<td>4</td>
</tr>
<tr>
<td>BIOM 5641</td>
<td>Cornerstones in Vertebrate Paleontology</td>
<td>1</td>
</tr>
<tr>
<td>BIOM 6943</td>
<td>Advanced Vertebrate Paleontology</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Expectations for the Anatomy and Vertebrate Paleontology Track:

Students in the Anatomy and Vertebrate Paleontology track are expected to:
- Enroll in Gross Anatomy in the first semester.
- Write grant proposals, starting in the first semester, with the help of a researcher.
- Enroll in three credits of BIOM 6723, Geology and Vertebrate Paleontological Field Methods, in the first summer.
- Pass a course in phylogenetic systematics with an acceptable grade (i.e., B or better), or transfer credit if the student has passed such a course previously.
- Attend paleontological lab meetings every week during the Fall and Spring semesters.
- Act as a teaching assistant in Gross Anatomy course in the third semester.

Credit for Research and Dissertation

Ph.D. students are expected to conduct original research and must take a minimum of 30 hours of research and dissertation. In addition, these students must write a dissertation that describes their research, present a seminar based on the dissertation research, and publicly defend the dissertation (see Research Thesis and Dissertation). The advisory committee must approve the dissertation and defense.

Transfer Hours

Ph.D. students possessing a Master’s degree may transfer up to 30 hours of graduate credit from an accredited graduate program. Ph.D. students possessing a Bachelor’s degree may transfer up to nine hours of graduate credit from an accredited institution if the graduate courses were taken in a program offering a M.S. degree, and may transfer more than nine hours if the graduate courses were taken in a graduate program offering a Ph.D. degree.

Graduate credit hours may be transferred under the following conditions:
1. Transfer credit must be recommended by the major advisor, advisory committee, and dean of the Graduate College through submission and approval of the Plan of Study;
2. Transfer credit must be approved by the BSGC and the Coordinator/Director of the Biomedical Sciences Graduate Program;
3. Students transferring graduate credit must have been enrolled in a graduate program at another institution and the course or courses transferred must be recognized as graduate courses by that institution;
4. Students must have earned a grade of “B” or better in all graduate courses transferred;
5. For credit earned outside of OSU, a student with M.S. hours may transfer in a maximum of 9 hours;
6. For credit earned outside of OSU, a student with Ph.D. hours may transfer in an unlimited number of hours; provided the student completes a minimum of 30 hours at OSU; and
7. All graduate credit earned at OSU that was not applied toward a degree may be applied toward a Ph.D., provided the hours have been earned in the past 10 years.

Doctoral Candidacy

Admission to doctoral candidacy marks the transition into the research phase of a doctoral degree and documents that students have made satisfactory progress towards completing the program. To obtain candidacy, students must:
1. Have an approved Plan of Study (see Major Advisor, Advisory Committee and Plan of Study)
2. Have an approved research proposal (see below); and
3. Pass their qualifying exam (see below)

Admission to candidacy must occur at least one full year prior to the date the degree is conferred. The "Admission to Doctoral Candidacy" form must be completed and submitted to the Coordinator/Director of the Biomedical Sciences Graduate Program. This form can be obtained from the OSU Graduate College in the Graduate Student Canvas Community https://canvas.okstate.edu/courses/31330.

Since admission to candidacy may occur at various times during the academic calendar, the following guidelines shall apply to determine hours of dissertation research taken as a doctoral candidate:
- If the student is admitted to candidacy prior to the first day of a given semester, all dissertation hours taken that semester and thereafter may be included in the hours of dissertation research required as a doctoral candidate
- If a student is admitted to candidacy during a semester, but before the end of the 8th week for a fall or spring semester or the 4th week for a summer semester, one-half of the dissertation hours taken during that semester may be included in the hours of dissertation research required as a doctoral candidate

Research Proposal
Students are required to write a research proposal detailing the research project that they are pursuing with their advisor which must be submitted to and approved by the advisory committee at least 12 months prior to graduation.

Qualifying Examination
A qualifying examination, consisting of both an oral and a written component, will be administered by the student’s advisory committee. Students will typically take the exam after completing the second year of their doctoral program and must pass both components of the exam. The exam is comprehensive and consists of questions that cover all completed course work and research.

For each component of the exam, each member of the advisory committee will cast either a passing or unsatisfactory vote. In order for a student to pass the exam, no more than one member of the advisory committee may vote unsatisfactory on the written and oral component. If the major advisor votes unsatisfactory on either the oral or written component, or if the student earns two or more unsatisfactory votes from committee members, the student earns an unsatisfactory grade on the examination. If the results are unsatisfactory, a second examination may be administered by the committee no earlier than four months after the date of the first exam. Students are dismissed from the Ph.D. degree program if an unsatisfactory result is obtained on the second exam.

Minimum Number of Hours
The total number of graduate hours shall not be less than 60 beyond a Bachelor’s degree (see Transfer Hours, above).

Time of Study and Residence Requirements
Full-time Ph.D. students may complete the requirements for a Ph.D. degree in four years. However, students must complete all Ph.D. degree requirements within nine years. Additionally, students must be enrolled as a full-time student in one of the last two years of their program of study (see Additional Requirements and Information (All Degree Programs), Enrollment Status).

Teaching Experience
Ph.D. students interested in a career in academia are encouraged to seek opportunities to teach lectures at the undergraduate and graduate level. There may be teaching opportunities available at OSU-CHS or at Tulsa Community College (or a similar regional institution).

Additional Requirements and Program Information
Additional requirements and information pertinent to the Ph.D. degree program are described in Additional Requirements and Information (All Degree Programs).

G. Doctor of Osteopathic Medicine and Doctor of Philosophy (D.O./Ph.D.) Degree Program

Degree Requirements
In general, students in the D.O./Ph.D. degree program begin by completing the first two years of the medical school curriculum. Students then pursue the requirements for a Ph.D. degree and, after completing these requirements, will continue on to the third and fourth years of the medical school curriculum. The requirements for the Ph.D. degree component of the D.O./Ph.D. degree are similar to those described in Doctor of Philosophy (Ph.D.) in Biomedical Sciences. However, some requirements are unique to the D.O./Ph.D. degree program and are described below.
Credit for Course Work
D.O./Ph.D. students are required to complete all of the medical school courses offered in the first and second year of the medical school curriculum; these courses account for 30 semester hours of credit toward the Ph.D. degree. During the first year of the Ph.D. degree component, D.O./Ph.D. students must take remaining required graduate courses (see Table 5), as well as elective graduate courses (see Course Descriptions) appropriate to the student’s educational needs.

An advisory committee (see Major Advisor, Advisory Committee and Plan of Study) will provide guidance for selecting elective course work.

Credit for Research and Dissertation
As described in Ph.D. degree requirements, D.O./Ph.D. students are expected to conduct original research and must take a minimum of 30 hours of research and dissertation. The research conducted will culminate in a written dissertation that must be approved by the advisory committee and publicly defended. Admission to Doctoral Candidacy, Research Proposal, and Qualifying Examination also will follow guidelines as described in Ph.D. degree requirements. In addition, D.O./Ph.D. students must prepare a draft of their dissertation and submit it to the advisory committee before entering the third year of medical school.

Transfer Hours
D.O./Ph.D. students receive 30 hours of graduate credit for the medical school courses taken in the first two years of the medical school curriculum. Therefore, D.O./Ph.D. students are typically not allowed to transfer graduate credit from other institutions. However, under specific circumstances, additional transfer credit may be endorsed by the advisory committee. Under these rare circumstances, the transfer credit must comply with the transfer guidelines as stated for the Ph.D. program, be endorsed by the student’s advisory committee, and then approved by the Biomedical Sciences Graduate Committee as part of the student’s Plan of Study, and by the Coordinator/Director of the Biomedical Sciences Graduate Program.

Reduced Continuous Enrollment
Once a Ph.D. student advances to candidacy, he or she is eligible for reduced continuous enrollment (RCE). Under RCE a student is considered to be in full-time status if taking 2 or more credit hours. This applies to domestic and international students, and fulfills visa requirements for international students.

Minimum Number of Hours
The total number of graduate hours shall not be less than 60 beyond a Bachelor’s degree (see Transfer Hours, above). Note that 60 hours is the bare minimum requirement. Required courses, transfer credit and Advisory Committee requirements may result in a greater number of hours.

Time of Study
Full-time Ph.D. students may complete the requirements for a Ph.D. degree in four years. However, students must complete all Ph.D. degree requirements within nine years. Additionally, students must be enrolled as a full-time student in one of the last two years of their program of study (see Additional Requirements and Information (All Degree Programs) Enrollment Status).

H. Research Thesis and Dissertation
A research thesis is required for the M.S. degree and a research dissertation for the Ph.D. degree. The format should adhere to the Graduate College Style Manual, available online in the Graduate Student Canvas Community https://canvas.okstate.edu/courses/31330. A public defense of the research is required for the M.S. degree and the Ph.D. degree with a notice being posted no later than 10 days prior to the defense. The format of the defense is left to the design of the major advisor but must include an opportunity for members of the audience to ask questions. The student must submit both an Oral Defense Approval form and a Signature/Approval page signed by the Faculty Advisory Committee to the Graduate College. Additionally, the final approved document must be uploaded electronically before published deadlines.

I. Biomedical Course Descriptions

BIOM 5000* Research and Thesis
1-6 credits, with a maximum of 6, Lab 1-6. Prerequisite(s): Consent of major advisor. Research in biomedical sciences for MS degree.
BIOM 5003* Statistics for Medical Residents  
Prerequisite(s): Employed as a medical resident or permission of instructor. Survey of statistical methodology relevant to health care professionals. Basic understanding of statistics presented in recent medical literature. Hypothesis testing, ANOVA techniques, regression, categorical techniques. (Same course as STAT 5003).

BIOM 5010 Special Topics in Biomedical Sciences  
Provides an overview of current issues in biomedical sciences.

BIOM 5013* Biomedical Statistics  
Prerequisite(s): Graduate standing. Fundamentals of biostatistics, including parametric and non-parametric statistical methods with applications to biomedical research, clinical epidemiology and clinical medicine.

BIOM 5020* Biomedical Sciences Seminar  
1-4 credits, max 4. Prerequisite(s): Graduate standing. Literature and research problems in biomedical sciences.

BIOM 5116* Clinical Anatomy  
Lab 3. Prerequisites(s): Graduate standing in the biomedical sciences program. Presents gross structure of the human body using a regional approach. Topics include topographical and functional anatomy, clinical correlations, and introduction to radiology. The course provides the descriptive basis for understanding human structure and function encountered in succeeding courses and medical practice. Same course as PCME 8116.

BIOM 5122 Clinical Anatomy for Allied Healthcare  
Gross structure of the human body using a regional approach, including topographic and functional anatomy, and clinical correlations as appropriate for athletic trainers and allied healthcare professionals. Descriptive basis for understanding human structure and function encountered in professional practice.

BIOM 5133 Neuroanatomy  
A continuation of gross anatomy to include anatomy of the head region. Emphasis on neuroanatomy. Laboratory sessions on head and brain dissection and special demonstrations. The relation of basic principles with osteopathic medicine and neurology in clinical correlation sessions. Previously offered as BIOM 5132.

BIOM 5144 Histology and Development  
This course combines lecture videos from two courses in the medical curriculum with biomedical and evolutionary readings and a weekly discussion sections, supporting graduate inquiry in the Biomedical Sciences. Microanatomy and Development of the embryo and organ systems are interleaved with Genetics lectures explaining the basis of human variation. May not be used for degree credit with BIOM 6743 or 6752.

BIOM 5215 Medical Biochemistry  
Broad survey of the chemical classes and metabolic processes that are consistent with the normal functions of biosystems. Functions and interrelationships of these processes in human metabolism to provide a foundation for understanding the chemistry of disease states when discussed in the second-year program.

BIOM 5316 Medical Microbiology and Immunology  
Similarities and differences among pathogenic microorganisms. Characteristics, pathogenesis and control of medically important microorganisms and disorders of the immune system. Laboratory exercises on the basic serological and microbiological procedures used in the diagnosis of infectious diseases. Prerequisites: BIOM 5215.

BIOM 5616 Graduate Biomedical Physiology  
This course incorporates an evolutionary perspective to better understand physiologic principles and control mechanisms that maintain homeostasis. The fundamentals of physiology are emphasized in discussions of the integration of structure and function in all systems of the body, along with the integration of function among systems. Problem-solving techniques are utilized to develop student understanding and enhance subsequent learning - both clinical and basic sciences.

BIOM 5621* Introduction to Translational Research  
Focuses on biomedical and clinical research from bench to bedside and back. Provides examples of how basic science and clinical observations lead to translational research.

BIOM 5631* Disease Research in Medicine  
Prerequisite(s): Biomedical Foundations or equivalent. Permission of instructor. Introduction to selected diseases of priority in medicine and to funding agencies. Includes discussing current clinical and research challenges.
BIOM 5641* Cornerstones of Vertebrate Paleontology
In-depth discussion of topics in Vertebrate Pathology, emphasizing critical thinking skills. Based on evaluation of the primary literature, and covering diverse methodological approaches to interdisciplinary research questions.

BIOM 5653 Evolutionary Physiology
Survey course that covers the basic physiology of, primarily, mammalian species. Uses an evolutionary approach that integrates form with function by outlining the evolutionary sequences thought to have resulted in modern organ structures.

BIOM 5663 Graduate Pharmacology
Provides an enriched understanding of the mechanism of actions of pharmacological agents used to treat human diseases.

BIOM 5672 Scientific Outreach Training for Graduate Students
Provides interactive opportunities with elementary school-aged children with a particular emphasis on developing an understanding of the scientific method as a strategy for real-life problem-solving.

BIOM 5683 Chronic Inflammation and Cancer Development
Provides insight that describes the issues of chronic inflammation, autoimmune and cancer development.

BIOM 5693 Principle Concepts of Cellular and Molecular Immunology
Introduces and explores basic concepts of immunology with cellular and molecular components that play a role in normal and disease states.

BIOM 5963* Case Studies in Medical Smart
Prerequisite(s): BIOM 4893 or DHM/IEM 4893 or consent of instructor. Designed to activate critical thinking skills needed for problem solving in wearable sensing system development. (Same course as DHM 5963).

BIOM 5984* Capstone in Medical Smart Garment Engineering
Prerequisite(s): BIOM or DHM 5963 and three credits of chosen emphasis area. Project-based where interdisciplinary teams identify a wearable sensing application and collaborate to engineer a prototype that addresses a defined need. Industry collaboration encouraged. (Same course as DHM 5984.)

BIOM 6000* Research and Dissertation
1-15 credits, max 45, Lab 1-15. Prerequisite(s): Consent of major adviser. Research in biomedical sciences for PhD degree.

BIOM 6010* Topics in Biomedical Sciences
1-3 credits, max 9. Prerequisite(s): Consent of instructor. Tutorials in areas of biomedical sciences not addressed in other courses.

BIOM 6013 Educational Methods in the Biomedical Sciences
Introduces graduate students to a full range of faculty roles and responsibilities related to instructional methods used at the Center for Health Sciences.

BIOM 6023 Research Methods and Design
Introduction to concepts of research design, methodology, sampling techniques, internal and external validity, and the scientific method.

BIOM 6175 Molecular and Cellular Biology
Cell biology, including cellular macromolecules, energetics, metabolism, regulation, organization and function of cellular organelles, flow of genetic information, and the regulation of selected cell activities.

BIOM 6183* Cellular and Molecular Biology of Pain
Prerequisite(s): 5133 or 5616. An understanding of the cellular and molecular events that occur in the initiation and transmission of nociceptive (painful) sensory signaling.

BIOM 6214* Advanced Topics in Medical Biochemistry
Prerequisite(s): 5215 or concurrent enrollment. Chemical basis of protein, carbohydrate, lipid, nucleic acid, steroid and porphyrin structure, function, and metabolism as related to health and disease.
BIOM 6233* Enzyme Analysis
Lab 2. Prerequisite(s): 6214. Characteristics, separation, detection, assays, kinetics, mechanisms of catalysis, inhibition or inactivation, and clinical applications of enzyme analysis.

BIOM 6243* Human Nutrition
Lab 2. Prerequisite(s): 5215. Role of vitamins and minerals in maintaining normal metabolism, role of nutrients in providing athletic and immune system performance, and pathophysiology associated with nutrient deficits and nutrient excesses. Role of drugs in inducing cancer and increasing nutrient requirements.

BIOM 6263* Techniques in Molecular Biology
Lab 4. Prerequisite(s): 5215, 5316, consent of instructor. Transformation of bacterial and mammalian cells; purification of nucleic acids; cloning of DNA fragments; labeling of nucleic acids with non-radioactive probes; analysis of DNA and RNA by electrophoresis and hybridization; DNA sequencing; design, synthesis and use of oligonucleotides; site-directed mutagenesis; detection of rare nucleic acids by the polymerase chain reaction and expression of proteins.

BIOM 6333* Immunology
Prerequisite(s): 5215, 5316. The experimental basis of immunology and immunopathology.

BIOM 6343* Microbial Physiology
Lab 2. Prerequisite(s): 5215, 5316. The chemical composition, growth and metabolism of prokaryotic organisms including regulation and control of metabolic pathways with emphasis on metabolism unique to microbes.

BIOM 6353* Molecular Virology
Lab 2. Prerequisite(s): 5215, 5316, consent of instructor. The fundamental molecular biology of the virus life cycle using one virus as a model to examine penetration, gene regulation, replication, assembly and egress, as well as host immunological response and epidemiology.

BIOM 6363* Immunobiology of Infectious Disease
Prerequisite(s): Biochemistry, Medical Microbiology and Immunology. Graduate course to provide an understanding of cellular and molecular events that occur during the initiation of immune response to main causes of human pathogens.

BIOM 6523* Cardiovascular Physiology and Pharmacology
Prerequisite(s): 5513, 5523. Physiologic and pharmacologic mechanisms of cardiac and vascular smooth muscle function and control at the molecular, cellular, tissue and organ system levels.

BIOM 6613* Environmental Physiology
Prerequisite(s): 5616. Environmental parameters, including barometric pressure, temperature, light, gravity, noise, and crowding, having an impact on homeostatic mechanisms in the normal human with special emphasis on acute and chronic adaptations in response to changes in environmental parameters.

BIOM 6643 Neurophysiology
Prerequisite(s): BIOM 5616. Fundamental concepts of the motor and sensory components of the nervous system with emphasis on integrative mechanisms.

BIOM 6662* Research Ethics and Survival Skills for the Biomedical Sciences
Prerequisite(s): Graduate standing. Provides a basic framework for scientific conduct and practice and the skills needed for a career in the biomedical sciences.

BIOM 6663* Neuroethology
Prerequisite(s): Permission of instructor. This course is designed to provide an analysis of the neuroendocrine basis of behavior. Lectures will serve as the format of presentation to provide a sound understanding of the neuroethological concepts discussed.
BIOM 6673* Genomics
Prerequisite(s): 6175. The course begins with a review of molecular biology and then proceeds to the structure and organization of eukaryotic, prokaryotic, and organelle genomes. Techniques in dividing, sequencing, annotating, and mapping genomes are studied as well as those of global gene expression profiling. The course finishes with a look at the many applications of genomics in biomedical science and disease.

BIOM 6705 Advanced Gross Anatomy
Prerequisite(s): Consent of course coordinator. General and specific concepts of regional human anatomy. The primary focus is the range of normal for all organ systems and interrelationships. Provides an advanced descriptive basis for understanding human structure and function encountered in succeeding courses and in the practice of teaching gross anatomy to graduate and medical students.

BIOM 6723* Field Techniques in Vertebrate Paleontology
This course introduces students to techniques and tools necessary to conduct field work in vertebrate paleontology. The primary techniques will include mapping, prospecting and collecting both micro- and macrofossil vertebrate remains. Processing of rock matrix with microvertebrates will be emphasized, but preparation of macrofossil remains for transportation to the research lab will be taught.

BIOM 6733* Microbial Pathogenesis
Prerequisite(s): BIOM 6791/PCME 8791, consent of instructor. An in-depth introduction to the fundamental principles and molecular mechanisms by which microbes cause disease in humans. Focuses on current research and provides a comprehensive overview of the molecular basis of pathogenesis with a focus on prokaryotic and eukaryotic model microbial systems to illustrate mechanisms of disease pathogenesis. Discusses the role of the microbiome in health and disease.

BIOM 6743* Foundations in Medical Genetics, Molecular Biology and Development
Human genetics and development, including structure and function of nucleic acids, gene regulation, basis of inheritance, and development of the human embryo. Same course as PCME 8743.

BIOM 6752* Foundations in Medical Cell and Tissue Biology
Structure and function of cells within tissues as it relates to human health and disease, including cell transport, cell-to-cell communication and organ system control. Same course as PCME 8752.

BIOM 6762* Foundations in Medical Biochemistry
Biochemistry in human health and disease, including protein structure and function, bioenergetics, metabolism, nutrition, and membrane structure and function. Same course as PCME 8762.

BIOM 6771* Foundations in Medical Pharmacology
General principles of pharmacokinetics and pharmacodynamics of drugs used to treat human disease. Same course as PCME 8771.

BIOM 6781* Foundations in Medical Immunology
The immune system in human health and disease, including antibody and cell-mediated immune responses, inflammation, immune responses to infectious agents and allergens, immunodeficiencies and malignancies of the immune system. Same course as PCME 8781.

BIOM 6800* Critical Readings in Biomedical Sciences
1-3 credits, max. 3. Provides experience with the primary literature in biomedical sciences, with training in evaluation methodologies, experimental design, data presentation, and statistical designs.

BIOM 6810* Structure and Function of the Human Cardiovascular System
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the human cardiovascular system.

BIOM 6820* Structure and Function of the Human Gastrointestinal/Hepatic System
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the human gastrointestinal and hepatic systems.
BIOM 6830* Biomedical Perspectives on Human Hematology
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the human blood and lymphatics, and associated disorders.

BIOM 6840* Structure and Function of the Human Musculoskeletal System
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the human musculoskeletal system and associated disorders.

BIOM 6850* Structure and Function of the Human Renal System
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the human renal system.

BIOM 6860* Structure and Function of the Human Reproductive Systems and Reproductive Biology
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the male and female human reproductive systems and reproductive biology.

BIOM 6870* Structure and Function of the Human Respiratory System
Prerequisite(s): Permission of Instructor. Provides integrated biomedical study of the human respiratory system.

BIOM 6880* Biomedical Perspectives on Psychiatry
Prerequisite(s): Permission of Instructor. Provides clinical presentation, differential diagnosis, etiology (including pathophysiological etiologies), basic pharmacology of medications used to treat the disorder, clinical pharmacology, and psychosocial treatments.

BIOM 6893* Fundamentals of Medical Smart Garment Engineering
Prerequisite(s): 90+ hours or Graduate standing. Students will gain elementary knowledge in focus areas of health science, biomedical sensing and analysis, and apparel design necessary to undertake the development of wearable electronic sensing systems. Lecture and laboratory based instruction. May not be used for degree credit with DHM 4893 or IEM 4893 or 5893.

BIOM 6900* Structure and Function of the Human Endocrine System
Provides integrated biomedical study of the human endocrine system, and associated disorders.

BIOM 6910* Structure and Function of the Human Nervous System
Provides integrated biomedical study of the human nervous system.

BIOM 6922* Scientific Communication in Biomedical Sciences
Provides experience in scientific writing and oral presentations.

BIOM 6933* Cornerstones of Graduate Biomedical Sciences
Discussion of topics in the foundational courses of biomedical sciences, emphasizing critical thinking skills and diverse methodological approaches in understanding interdisciplinary research questions and in evaluations of the primary literature. Intended to be taken concurrently with foundation courses.

BIOM 6943* Advanced Vertebrate Paleontology
Prerequisite(s): Comparative anatomy or human anatomy, and assumes an undergraduate level understanding of vertebrate paleontology, biology, and evolution. Explores vertebrate evolution in a phylogenetic, ontogenetic, and stratigraphic framework using selected peer reviewed articles. Students will lead discussions and practice critical thinking skills to address topics presented. Students will apply what they have learned to lead dissections of specimens belonging to a specific extant phylogenetic bracket.

BIOM 6952* Paleohistology Techniques
Prerequisite(s): Undergraduate level understanding of biology, evolution, and histology. Recognize and interpret modern and fossil bone tissue microstructures. The contributions of paleohistology to understanding extinct vertebrate physiology will be explored through discussions of peer reviewed articles. Students will receive hands-on training in paleohistology techniques.

BIOM 6962* Evolutionary Biomechanics
Prerequisite(s): BIOM 5116* or HHP 2654 or ZOOL 3114*.
Evaluation of topics covering the application of engineering principles to biological systems in an evolutionary framework. Topics will examine the material properties of anatomical tissues, how forces act internally and externally on organisms and their structures, kinematics, and biomechanical model systems. Primary literature and experimental designs will also be explored.
BIOM 6972 Role of Nicotinic Acetylcholine Receptors in Neuropsychiatric Disorders
An in-depth review of physiological aspects of nicotinic acetylcholine receptors (AChRs), its involvement in neuropsychiatric (depression, drug addiction) neurological (Alzheimer's disease), and non-neurological (inflammation) diseases, and as targets for pharmacotherapy. This course is designed to emphasize self-learning and team-learning in the form of student seminars to address new pharmacological and neurological evidence supporting novel pharmacotherapies. Prerequisites: BIOM 6513 Neuropharmacology.

* Denotes lab fee

VIII. Forensic Sciences

A. Admission Information

Types of Admission
Students in the Forensic Sciences program develop skills for research, practice, and management in support of crime investigation. Coursework is interdisciplinary, with theory classes available online and laboratory classes and research experience hosted on campus. Admission is available for:

- Master of Science in Forensic Sciences (Thesis or Non-thesis pathways);
- Graduate Certificate in Forensic Arson, Explosives, Firearms and Toolmarks Investigation;
- Graduate Certificate in Forensic Investigative Sciences;
- Graduate Certificate in Forensic Psychology; and
- Doctor of Philosophy in Forensic Sciences.

Admission Requirements
The applicant must have a bachelor’s degree from an accredited college or university to be considered for admission. A grade point average of 3.0 (on a 4.0 scale) is recommended.

Admission to the M.S./Thesis program recommends an undergraduate degree in the behavioral, biological, medical, or physical sciences or in a forensics-related discipline. The college major or equivalent coursework should support the chosen field of study.

Admission to the M.S./Non-Thesis program also requires an undergraduate degree, but no specific major is required. Tracks include Arson, Explosives, Firearms and Toolmarks Investigation, Forensic Investigative Sciences, and Forensic Science Administration. Applicants pursuing the Forensic Science Administration option must be employed in a field related to the forensic sciences. Applicants to the options in Arson, Explosives, Firearms and Toolmarks Investigation and Forensic Science Examination must have associated training or experience.

Admission to the Graduate Certificates (GCRT) also requires an undergraduate degree, but no specific major is required. Applicants must have associated training or experience for the AEFTI option.

International Student Admission
International Applicants: Most coursework in the School of Forensic Sciences is online. You may remain in your home country until the research phase of the degree, if relocation is even necessary. Typically, laboratory research takes place roughly one to two years into the program.

International applicants are expected to submit applications, financial affidavits, transcripts and/or mark sheets, and, if required, official scores of the Test of English as a Foreign Language (TOEFL) or International English Language Testing System (IELTS) examinations. Applicants who present a TOEFL score of at least 79 iBT/550 PBT or an IELTS academic stream score of at least 6.5 satisfy the Graduate College’s English proficiency requirements for admission to a graduate program. Note that some graduate programs require a TOEFL score above these levels, and applicants should contact the program for specific TOEFL or IELTS requirements. Completed applications are due no later than February 1 for fall enrollment and August 1 for spring enrollment. Applications that become complete after these deadline dates may be reviewed, but the Graduate College cannot guarantee an admissions decision will be made with sufficient time for the issuance of the I-20 form required to obtain an entry visa.

Forensic Employment Background Checks
Anyone considering a career in the forensic sciences should be aware that job applications typically go beyond normal requirements for transcripts, employment history, references, interviews, and criminal-record checks. Because of the comprehensive screening involved, students applying for permanent positions or even for internships in
forensic laboratories are encouraged to apply for such positions well in advance, as the approval process may take several months.

Although varying by agency or employer, background checks may extend to inquiries about social companions, financial history, military history, use of alcohol and illegal drugs, medical history, mental health conditions, motor vehicle accidents, police records, personal weapons records, and civil court actions. In addition, personal information posted on the Internet, including social media sites such as Facebook or Twitter, may be subject to review. Employers also may require work samples and medical examinations along with drug, personality, and polygraph tests. Although the OSU-CHS application asks about felony convictions only, the prospective student should consider all factors that could influence future employment.

B. Application Procedure

Applications are online through the OSU Graduate College at https://gradcollege.okstate.edu/apply/.

Application deadlines differ, depending on the program.

Ph.D., M.S., and GCRT applications and all related materials are due as follows:
- October 1 for the following spring semester (priority deadline; rolling admission thereafter);
- February 1 for the following fall semester (priority deadline; rolling admission thereafter);

All Ph.D., M.S., and GCRT applicants are required to provide these documents:
1. Online Application for Graduate Admission
2. Personal Statement (within the application) that provides:
   - Personal career goals or reasons related to the choice of the program, with the area of interest or specialty identified for Ph.D. and M.S. applicants;
   - A brief description of experience or qualifications reflected in supporting information (recommendations, transcripts, or employment/experience); and
   - Any other pertinent information that the applicant wants the Forensic Sciences Graduate Admission Committee to consider.
3. For options in Arson, Explosives, Firearms and Toolmarks Investigation and Forensic Science Administration: A completed Verification of Forensics-Related Employment form sent directly by the employer.
4. For Arson, Explosives, Firearms and Toolmarks Investigation, a CV or resume.
5. Three letters of recommendation uploaded directly into the Graduate Application by the recommenders.
6. Transcripts from all college or university work completed after high school uploaded by the applicant into the Graduate Application; official transcripts of same must be sent directly to the OSU Graduate College.
7. Application fee of $50.00 or $75.00 (USD) for international applicants. This fee is paid by credit card at the time the online application is submitted.

Applicants are chosen on the basis of academic background, recommendations, experience, and pertinent information from the letter of application or background. Also taken into consideration is the ability of the Graduate Program to support the applicant’s career goals.

Notification of admission status is typically provided within six weeks of the application deadline. Offers of admission are emailed, along with an Agreement to Enroll, which the applicant must return to reserve a place in the Program. Applicants to the Ph.D./Dissertation and M.S./Thesis programs usually must respond within two weeks of receiving the offer to secure a place in the program. Those unable to accept an offer may be allowed to defer entry by one term. Applicants to the M.S./AEFTI option and GCRT receive electronic offers of admission accompanied by the Agreement to Enroll and other relevant program forms which must be signed and returned electronically within two weeks.

C. Tuition & Fees (at time of publication)

For current information, see https://medicine.okstate.edu/forensics/ tuition.html or https://bursar.okstate.edu/tuition-and-fees.

Tuition
- Oklahoma Resident: $230.45 per credit hour
- Non-Resident*: $876.40 per credit hour
- *Ask about your eligibility for an out of state tuition waiver
Fees

- **Student Fees**
  - Supplemental Off-Campus Fee (Web Courses) $25.00/credit hour
  - Student technology services $10.41/credit hour
  - Library automation $7.50/credit hour
  - Student Facility Fee $15.20/credit hour
  - Student Records $3.35/credit hour
  - Graduate College Program Fee $2.50/credit hour
  - Security Services Fee $4.00/credit hour
  - Student Union Fee (on-campus students only) $5.00/credit hour
  - Student Activity $7.72/credit hour
  - Wellness Center fee (on-campus students only) $7.29/credit hour
  - Printing fee (on-campus students only) $1.53/credit hour
  - Laboratory Fee (on-campus lab courses) $125/course
  - Student Health Fee $64/semester

Tuition and Fees are subject to change.

**Student Fee Refund Policy**
Please refer to the academic calendar for a schedule of refunds.

**D. Financial Aid**

**Graduate Assistantships and Grant-Funded Positions**
Graduate assistantships and grant-funded positions may be available to students in the research phase of the Ph.D./Dissertation and M.S./Thesis programs. Students should contact the track lead or faculty advisor about potential financial support through the department.

**The Office of Financial Aid**
The Office of Scholarships & Financial Aid is responsible for the administration of student financial aid and financial counseling to students applying for loans. The first step is to apply for **Free Application for Federal Student Aid (FAFSA)** at https://fafsa.ed.gov. Afterward, or for help in the process, contact a financial aid counselor at the Office of Scholarships and Financial Aid Office on the main OSU campus in Stillwater at 405-744-6604 or finaid@okstate.edu. Additionally, students may contact the Scholarships and Financial Aid office on the Tulsa campus at 918-594-8273 or Tulsa.financialaid@okstate.edu.

**E. Academic Regulations**

**Non-Degree-Seeking and Transfer Credits**
With the approval of the advisory committee and the Academic Coordinator, the applicant may receive up to nine hours of credit for courses taken in another OSU graduate program or within the School of Forensic Sciences under Non-Degree-Seeking Graduate Student (NDGD) status. Courses taken more than 10 years before the graduation date will not count toward the degree.

For the masters degree, with the approval of the advisory committee and the Academic Coordinator, the applicant may receive up to six hours of transfer credit for graduate level courses completed at another accredited college or university. For the PhD degree, the applicant may receive up to nine hours of transfer credit for graduate level courses completed at another accredited college or university as long as these credits were not used towards their masters degree. Transfer courses taken more than 10 years before the graduation date will not count toward the degree.

**Time of Study and Residence Requirements**
All requirements must be completed within nine years after admission to the Ph.D. program or within seven years after admission to the M.S. or GCRT programs. Students in the Ph.D./Dissertation or M.S./Thesis programs should plan to spend multiple semesters in residence conducting research on campus. Students in the Non-Thesis options may complete the program without relocating to the Tulsa area. Approved graduate courses taken in other programs or via non-degree-seeking enrollment in the School of Forensic Sciences may count toward the degree only if satisfactorily completed within 10 years prior to the graduation date.

**Minimum Grades, Probation, and Dismissal**
The student must maintain a grade point average of 3.0 or better throughout the degree program. In addition, no grade lower than a "C" may count toward graduation. If the GPA falls below 3.0, the student will be placed on
academic probation and may also lose stipend support if involved in funded research. The Forensic Sciences Graduate Faculty Committee may also recommend probation following an evaluation of a student’s progress. Further program restrictions may be implemented to assist the student in completing his/her graduate program. The student will be expected to return to a cumulative GPA of 3.0 or higher by the end of the semester subsequent to that in
which the GPA fell below 3.0. Failure to do so is cause for probation or dismissal. The student’s advisory committee will review each case of probation or dismissal with the Forensic Sciences Graduate Committee; the recommendation will then be forwarded to the Dean of the Graduate College. Students must also meet the minimum requirements of the Graduate College as specified in the University Catalog.

Grading System
Assigned letter grades serve as the basis for grading in most courses. All grades of A, B, C, D, or F are based on a 4.0 scale. In compliance with Oklahoma State University Graduate College standards, students enrolled in FRNS 5000 Research and Thesis or FRNS 6000 Doctoral Dissertation receive a grade of “SR” for satisfactory research or “UR” for unsatisfactory research, with no credit assigned for grades of “UR.”

Application for Diploma and Graduation
Students must file a Graduation Clearance Form and Graduation Application for the semester of graduation, even if a previous Graduation Application was submitted. Degree candidates are requested to attend commencement for the awarding of degrees. Diplomas will not be released until all degree requirements have been satisfied, including submission of final approved dissertation or thesis.

F. Student Information

Records and Transcripts
All permanent records are stored in the Office of the Registrar at the main campus in Stillwater. Requests for grades, transcripts, and diplomas should be made to that office by fax to 405-744-8426. If you have questions, call 405-744-6876 or send an email to registrar@okstate.edu.

Enrollment by Ph.D., M.S., and GCRT Students
Admitted students will receive directions for enrollment along with a list of available classes from the School of Forensic Sciences. For more information, contact the Academic Coordinator at 918-561-1108 or 918-561-8424 (AEFTI only).

Internet Courses
The M.S. program features online courses, which require basic computer skills and self-direction. Online classes engage students in a variety of learning activities and assign students greater responsibility for independent reading, course communications, assignments, and projects. In addition, participants must have computer skills, appropriate equipment, and Internet/email access needed for online courses. Internet courses are generally offered entirely online and require no on-campus attendance. An additional “off-campus” fee is charged for all online courses. Some online courses in the Arson, Explosives, Firearms and Toolmarks Investigation option also include on-site components, which carry an additional associated fee.

G. Master of Science in Forensic Sciences (M.S.) and Graduate Certificate (GCRT)
The Master of Science in Forensic Sciences includes a thesis research program with three areas of specialization, and non-thesis tracks in Arson, Explosives, Firearms and Toolmarks Investigation (AEFTI), Forensic Investigative Sciences (FIS), and Forensic Science Administration (FSA). All Master’s students must satisfactorily complete a research or scholarly project to achieve the degree. Both programs feature online courses, but the dissertation and thesis programs require on-campus research while the non-thesis options may be achieved through online classes. The AEFTI option requires on-site participation within some online elective courses.

The maximum time to complete the M.S. degree is 7 years. Throughout the program, the student must maintain a grade point average of 3.0 or better.

Full-time students taking 9 credits per semester may graduate in 2 to 3 years. Part-time students enrolling in 6 credits per semester may complete the program in 3 ½ to 4 years. While most coursework is available online, full-time students in the Thesis program should plan to relocate to the Tulsa area after the second semester.

M.S. Thesis Pathways
The Master’s degree offers specialization for individuals pursuing careers in crime laboratories, investigative agencies, or teaching and research in the forensic sciences. Available fields of study are:

• Forensic Biology/DNA;
• Forensic Chemistry/Toxicology; and
• Forensic Psychology.*

*NOTE: The forensic psychology track is not designed to create clinical or counseling psychologists. If interested in related licensure or a Ph.D., check on prerequisites with the respective licensing authority or doctoral program before applying. The forensic psychology track also has a non-thesis pathway available.

The applicant should have a college major or equivalent coursework as a foundation for graduate studies in the chosen area. The letter of application should reflect how the applicant would use the degree to achieve career goals.

The masters degree requires satisfactory completion of a minimum of 30 graduate credit hours. Thesis students dedicate six of the required credit hours to research, for which they publish, present, and defend a Master’s thesis in the final semester. At least two or three semesters on campus are required for thesis research.

The Forensic Science Education Programs Accreditation Commission (FEPAC) of the American Academy of Forensic Sciences has accredited the OSU graduate programs in forensic biology/DNA and in forensic chemistry/toxicology. For more information, see www.AAFS.org, Resources.

See Degree Requirements for complete information on course requirements by specialization.

M.S. Non-Thesis Pathways
Non-thesis pathways in the Master’s program serve two functions: One track (FIS) is for entry-level Forensic Science students coming from diverse backgrounds and baccalaureate degrees, some tracks (AEFTI and FSA) are for individuals already engaged in careers related to the forensic sciences. For working participants attending part time, taking 6 credits per semester to complete the program in 3 ½ to 4 years. Three Non-Thesis Pathways are available:

- Arson, Explosives, Firearms and Toolmarks Investigation (AEFTI);
- Forensic Investigative Sciences (FIS); and
- Forensic Science Administration (FSA).

The applicant must have a bachelor’s degree and demonstrate proof of employment in a forensic science related area. No particular college major is required, but the professional experience must provide a foundation in support of the option.

The Option in Arson, Explosives, Firearms and Toolmarks Investigation (AEFTI) offers graduate-level education for law enforcement, military investigators, and fire investigators in support of their professional mission. Admission requires a related professional background, appropriate clearance, and prior approval of the lead instructor for this option. This option consists mainly of online classes, but some “hybrid courses” consisting of a combination of online sessions and on-site activities are also offered. A related professional background is defined as being employed full-time by a recognized local, county, state, or federal law enforcement agency or fire department or branch of the military. The full-time assignment must be directly related to explosives, explosives investigation, fire/arson investigation, intelligence, or firearm and tool mark examiners. All prospective students are individually vetted prior to application to the program.

Forensic Investigative Sciences is the most flexible degree option within the School of Forensic Sciences, with most coursework being elective in nature. FIS faculty will work with students to build their degree plan based on their career aspirations. Coursework is all online.

The Option in Forensic Science Administration (FSA) helps professionals improve job performance, build toward management positions, and expand knowledge of the forensic sciences. This degree works only in conjunction with appropriate experience in the acquisition of skills and knowledge necessary for successful management within a forensic agency, laboratory, or organization. This option consists entirely of online courses.

Each Non-Thesis track requires satisfactory completion of 32 graduate credit hours and a scholarly project. Students in these tracks complete a research project for 1 to 3 course credits, depending on the weight of the project. During the final semester, the student will present information on the project (typically via videoconference or other electronic means) and will field questions from the Graduate Advisory Committee.

The Doctor of Philosophy in Forensic Sciences is a highly interdisciplinary research degree program involving advanced coursework in a number of forensic disciplines. Graduates of the Ph.D. degree program will have advanced knowledge conversant in a broader range of forensic disciplines than one with a Master’s degree. Thus, career
options for these graduates may be in the management hierarchy of a forensic laboratory or law enforcement agency or as faculty in undergraduate or graduate forensic science programs. Specializations include the following:

- Forensic Arson, Explosives, Firearms & Toolmarks Investigation;
- Forensic Biology/DNA;
- Forensic Chemistry/Toxicology;
- Forensic Investigative Sciences; and
- Forensic Psychology.

The Graduate Certificate (AEFTI) offers graduate-level education for law enforcement, military investigators, and fire investigators in support of their professional mission. Admission requires a related professional background, appropriate clearance, and prior approval of the lead instructor. The GCRT consists mainly of online classes, but some "hybrid courses" consisting of a combination of online sessions and on-site activities are also offered. The certificate requires 6 credit hours of Forensic Sciences core and 6 hours of electives in the Arson, Explosives or Firearms and Toolmarks.

The Graduate Certificate (FIS) allows for students to tailor a certificate in forensic sciences to their professional and academic goals. The certificate requires the Survey of Forensic Sciences, Criminalistics and 6 hours of electives. It can be completed fully online.

The Graduate Certificate (FPSY) requires courses in the Survey of Forensic Sciences, Criminalistics, Forensic Psychology and Victimology. It can be completed fully online.

Note: No more than two courses (6 hours) can overlap between any two or more Graduate Certificates in Forensic Sciences.

Contact Information
For more information about the Ph.D. or M.S. in Forensic Sciences programs, contact:

- Academic Coordinator
  forensic@okstate.edu
- School of Forensic Sciences
  1111 W. 17th St., Tulsa, OK 74107
  918-561-1108 or 918-561-8424 (AEFTI only)

See Degree Requirements for complete information on course requirements by track specialization.

Degree Requirements

H. Forensic Sciences (M.S.)

Thesis tracks require a minimum of 30 credit hours, completion of a research thesis and participation in graduate seminars or continuing education. All requirements must be met within 7 years of admission. The thesis tracks include forensic biology/DNA, forensic chemistry/toxicology and forensic psychology. The Forensic Biology/DNA and Chemistry/Toxicology tracks are accredited by the Forensic Science Education Programs Accreditation Commission of the American Academy of Forensic Science, also known as FEPAC.

Non-thesis tracks require a minimum of 32 credit hours and completion of a capstone experience. These tracks can be completed fully online.

See the chart below for requirements for each degree track. The Arson, Explosives Firearms and Toolmarks investigation option is shown separately.
### General Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Venue</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNS 5013</td>
<td>Survey of Forensic Sciences</td>
<td>Online (OL)</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5063</td>
<td>Ethical Research and Scientific Writing</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5073</td>
<td>Quality Assurance in Forensic Science</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5613</td>
<td>Criminalistics and Evidence Analysis</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5653</td>
<td>The Law and Expert Evidence</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5000</td>
<td>Research and Thesis (1-3 hrs/semester)</td>
<td>Campus</td>
<td>1-6</td>
</tr>
<tr>
<td>FRNS 5980</td>
<td>Non-thesis Creative Component</td>
<td>Ind. Study</td>
<td>1-3</td>
</tr>
</tbody>
</table>

### Requirements for Track or Option

- FRNS 5023 Questioned Document Examination: Online, 3 credits
- FRNS 5033 Forensic Handwriting Examination: Online, 3 credits
- FRNS 5043 Technical Aspects of FDE: Online, 3 credits
- FRNS 5053 Historical Aspects of FDE: Online, 3 credits
- FRNS 5083 Ethics in Forensic Leadership: Online, 3 credits
- FRNS 5090 Forensic Science Internship: Campus, 1-3 credits
- FRNS 5213 Molecular Biology: Online, 3 credits
- FRNS 5242 Population Genetics: Campus, 2 credits
- FRNS 5282 Methods in Forensic Sciences: Campus, 2 credits
- FRNS 5323 Forensic Microbiology: Online, 3 credits
- FRNS 5413 Forensic Pathology and Medicine: Online, 3 credits
- FRNS 5422 Forensic Osteology and Anthropology: Hybrid, 2 credits
- FRNS 5513 Forensic Bioscience: Online, 3 credits
- FRNS 5523 Forensic Toxicology: Online, 3 credits
- FRNS 5543 Advanced Forensic Toxicology: Online, 3 credits
- FRNS 5622 Advanced Criminalistics: Campus, 2 credits
- FRNS 5713 Forensic Psychology: Online, 3 credits
- FRNS 5733 Forensic Victimology: Online, 3 credits
- FRNS 5753 Criminal Profiling: Campus, 3 credits
- FRNS 5943 Forensic Management & Org. Dev.: Online, 3 credits
- HCA 5023 Human Resources in HC & Public Admin.: Online, 3 credits

Elective credits will make up any remaining hours needed for graduation. Electives should correspond to the track or option and must have the approval of the faculty advisor. Some courses may also require the instructor's approval. See a full list of Forensic Sciences topic courses below.

I. Master's in Forensic Sciences with an option in Arson, Explosives, Firearms and Toolmarks Investigation

The MS degree in this option requires 32 graduate credit hours, and a research project to be completed within 7 years of admission. Typical time for graduation is 2-3 years for full-time enrollment and 3½-4 years for part-time. See the chart below for requirements for the AEFTI option.

### Master of Science in Forensic Sciences with an Option in Arson, Explosives, Firearms, and Toolmarks Investigation

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Venue</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRNS 5063</td>
<td>Ethical Research and Scientific Writing</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5613</td>
<td>Criminalistics and Evidence Analysis</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5653</td>
<td>The Law and Expert Evidence</td>
<td>Online</td>
<td>3</td>
</tr>
<tr>
<td>FRNS 5980</td>
<td>Non-Thesis Creative Component – Final Semester</td>
<td>Online/Ind. Study</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Credits: 15

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Elective courses in the topic of Arson, Explosives, Firearms, and Toolmarks Investigation</td>
<td>17</td>
</tr>
<tr>
<td></td>
<td>Total Credit Hours:</td>
<td>32</td>
</tr>
</tbody>
</table>
J. Doctor of Philosophy in Forensic Sciences

The PhD program consists of a minimum of 60 total credit hours beyond the Master’s degree. It is also possible the student’s Advisory Committee may require an entering student to take additional leveling courses from the MS core curriculum. A student entering the PhD degree program will successfully complete at least 15 credit hours of coursework in Research Design and Methods, Advanced Statistics, Forensic Science Seminar, and two directed electives chosen with consultation of the Advisory Committee. The remaining credit hours will be achieved with a combination of Research and Dissertation hours and elective courses.

K. Graduate Certificates (GCRT)

The GCRT in Forensic Arson, Explosives, Firearms and Toolmarks Investigation requires 12 credit hours. 6 hours must be chosen from: FRNS 5013 Survey of Forensic Sciences, FRNS 5063 Ethical Research & Scientific Writing, FRNS 5073 Quality Assurance in Forensic Sciences, FRNS 5613 Criminalistics and Evidence Analysis, FRNS 5653 The Law and Expert Evidence, FRNS 5963 Forensic Statistics. The remaining 6 hours are elective choices in the topic of Arson, Explosives, Firearms and Toolmarks Investigation as approved by the chair and academic coordinator.

The GCRT in Forensic Psychology requires completion of these 12 credit hours: FRNS 5013 Survey of Forensic Sciences, FRNS 5613 Criminalistics and Evidence Analysis, FRNS 5713 Forensic Psychology, FRNS 5733 Forensic Victimology

No more than two courses (6 hours) can overlap between any two or more Graduate Certificates in Forensic Sciences.

L. Academic Advisement

Thesis and Doctoral Students
With the assistance of the track lead in the chosen specialty track, Ph.D./Dissertation and M.S./Thesis students will select a faculty advisor to direct their graduate program before the end of the first year. Before beginning the dissertation/thesis research, the student will consult with the faculty advisor to establish an advisory committee. This committee must have the approval of the Academic Coordinator, the Forensic Sciences Graduate Faculty Committee, and the Dean of the Graduate College. The faculty advisor, who usually chairs the advisory committee, has ultimate responsibility for monitoring the integrity and progress of the student’s program.

Non-Thesis Students
For those pursuing options in Arson, Explosives, Firearms and Toolmarks Investigation, Forensic Science Administration, and Forensic Document Examination, the Academic Coordinator will designate the advisor and the advisory committee chair. The advisory committee will also consist of two graduate faculty members and may include an adjunct faculty member from the School of Forensic Sciences. The faculty advisor will consult with the student on enrollment and the Plan of Study. The main purpose of the advisory committee will be to review and assess the student’s performance on the Comprehensive Exam and to review and approve the research project.

M. Course Descriptions

Information from: http://catalog.okstate.edu/courses/frns/

FRNS 5000 Thesis Research & Seminar
Prerequisites: Consent of major adviser.
Description: Research, thesis, and seminar requirement culminating with a master’s thesis and degree. Offered for variable credit, 1-15 credit hours, maximum of 15 credit hours.
Credit hours: 1-15
Contact hours: Contact: 1-15 Other: 1-15
Levels: Graduate
Schedule types: Independent Study
Department/School: Forensic Sciences

FRNS 5013 Survey of Forensic Sciences
Prerequisites: Consent of instructor.

1 Other courses authorized or pending approval by OSU or the Oklahoma State Regents for Higher Education since this printing may be available. Contact the School of Forensic Sciences for more information.
Description: Predominantly online class providing overview of various forensic sciences and how they relate to presentation of evidence and to civil and criminal procedures involved in solving problems of law. Law and ethics, forensic pathology, forensic dentistry and anthropology, forensic toxicology and molecular biology (DNA), forensic nursing and death scene investigation, forensic psychology, criminalistics, questioned documents, forensic engineering and technology, forensic accounting, and management techniques in forensic sciences. A review of current guidelines for knowledge, procedures, quality assurance and control, and certification/accreditation from national standards boards and scientific and technical working groups.

Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5023 Questioned Document Examination
Prerequisites: FRNS 5013 or concurrent enrollment.
Description: Functions of questioned document examiners, beyond document analysis to relating services and issues. History of questioned documents, handwriting and handprinting, process for obtaining exemplars, types of document examination (e.g., typewriting, mechanical processes, indented writing, obliterated writing, inks, currency, erasures, physical matches, and post marks.) Collection and preservation of evidence as well as courtroom procedures. (This course does not train the student as a document examiner and in no way certifies or qualifies the student to conduct questioned document analysis at the conclusion of this course.)

Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5033 Theory and Practice of Forensic Handwriting Examination
Prerequisites: FRNS 5023.
Description: Theoretical and practical aspects of handwriting as forensic evidence. Production of normal and false handwriting, variables in handwriting production, standards of comparison, identification theories, examination methodologies, expression of conclusions, characterization and validation of examiner skills, legal admissibility of handwriting expertise, and challenges to professional practice.

Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5043 Technical Aspects of Forensic Document Examination
Prerequisites: FRNS 5023.
Description: Basic theory in visual examination of questioned documents. Visual and color theory, measuring tools, instruments, simple microscopy, and photographic techniques. Technical description, theory, operation and practical use of various instrumentation used in the field such as the Electrostatic Detection Apparatus (ESDA) and Video Spectral Comparator (VSC).

Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5053 The Historical Aspects of Forensic Document Examination
Prerequisites: Graduate standing.
Description: This course presents historical aspects of forensic document examination. It covers development of handwriting, the acceptance of document examination expertise in Britain and North America, the early luminaries and famous cases.

Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences
**FRNS 5063 Ethical Research and Scientific Writing**  
**Prerequisites:** Permission from research advisor.  
**Description:** Develops knowledge and skills for ethical scientific research, writing and presentation. Covers responsible conduct, organization and design of research around a scientific question, and writing problems specific to science and the individual. Advisor guidance on some assignments required.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Forensic Sciences

**FRNS 5073 Quality Assurance in Forensic Science**  
**Prerequisites:** Admission to program.  
**Description:** Preparation for the forensic scientist to develop and implement quality assurance and quality control procedures to ensure the excellence of a laboratory. Preparation of laboratory procedures and policies, use of appropriate standards and controls, and validation methods for establishing an effective quality assurance program in the laboratory.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Forensic Sciences

**FRNS 5083 Ethics in Forensic Leadership**  
**Description:** Focuses on leadership development for managers of forensic organizations, including examination of leadership and ethics theories, application to theories to problems in forensic settings, tasks and relational skills for developing effective teams and groups within an ethical framework.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Forensic Sciences

**FRNS 5090 Internship in Forensic Sciences**  
**Prerequisites:** FRNS 5073.  
**Description:** Initial course in chosen specialty, permission of advisor and program director, and letter of agreement or contract with designated facility or laboratory. Provides practical training and experience within a work or laboratory setting under the guidance of a designated supervisor. This experience should complement graduate studies in the forensic sciences and support related career goals. Note: requires four hours per week at internship site for each credit hour of enrollment; eight hours per credit for summer session. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.  
**Credit hours:** 1-3  
**Contact hours:** Contact: 1-3 Other: 1-3  
**Levels:** Graduate  
**Schedule types:** Independent Study  
**Department/School:** Forensic Sciences

**FRNS 5093 Scientific Writing and Presentation Skills**  
**Prerequisites:** Permission of instructor and faculty advisor.  
**Description:** This course develops ethics and skills for scientific research, writing and presentation skills including RCR standards. It covers research approaches, genres of scientific writing and writing techniques relative to research and development of response to a scientific question. Students will present findings in written or report form or via presentation. Students will apply effective organizational and design strategies to scientific writing and presentations, including development of related media.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Forensic Sciences

**FRNS 5103 The Chemistry of Pyrotechnics**  
**Prerequisites:** Permission of instructor and faculty advisor.
Description: Provide students with a fundamental knowledge of the chemistry of pyrotechnics/low explosives intended to function as propellants, or generate pyrotechnic effects such as light, heat, sound, smoke and color. Emphasizes chemical and thermodynamic principles required to formulate these compositions and which determine their performance.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5113 The Chemistry of Explosives
Prerequisites: Permission of Instructor and Faculty Advisor.
Description: Provides a fundamental knowledge of the chemistry of energetic materials. Included will be low explosives that are intended to function as propellants, or generate pyrotechnic effects such as light, heat, sound and color. Emphasizes chemical and thermodynamic principles required to formulate these compositions and which determine their performance. Examines the chemistry of high explosives and high explosive formulations, and their effects will be examined.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5123 Fire Dynamics in Forensic Investigations
Prerequisites: Permission from Instructor and Faculty Advisor.
Description: Teaches the fundamentals of how chemistry, fire science, fluid mechanics and heat transfer interact to influence fire behavior.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5133 Ordnance Identification and Recognition
Prerequisites: Permission from Instructor and Faculty Advisor.
Description: Provides the fundamentals of a practical deductive process used to identify unknown military ordnance and addresses the safety precautions that should be applied in order to minimize associated hazards.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5143 Methods in Fire and Explosion Investigation NFPA 921/1033
Prerequisites: Permission from Instructor and Faculty Advisor.
Description: Surveys investigative methods in fire and explosion including legal considerations, fire science, building construction, origin determination, interviewing, documenting, evidence collection, deaths and injuries and other emerging trends in scientific testing and research.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5153 Explosives Research, Testing and Evaluation Methods
Prerequisites: Permission from Instructor and Faculty Advisor.
Description: Explores explosives characterization methods and explosives range testing methods to include how to develop and document a test plan, test methods and instrumentation while documenting and writing results.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
FRNS 5183 Computer Fire Modeling
Prerequisites: Permission of instructor and faculty advisor.
Description: Teaches the fundamentals of computational fluid dynamics (CFD) computer fire modeling, using Fire Dynamics Simulator (FDS). Covers topics such as basic conservation equations; Cartesian coordinate systems; use of spreadsheets to facilitate the creation of fire models; how to install and run FDS; how to write the code required to create an FDS model; techniques for modeling fire scenes and verification/validation of fire modeling use.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5213 Molecular Biology for the Forensic Scientist
Prerequisites: Admission to the program.
Description: Develops a solid foundation of knowledge in molecular biology for understanding the concepts of genetic marker analysis, especially DNA typing. Course previously offered as FRNS 5233.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5242 Population Genetics for the Forensic Scientist
Prerequisites: FRNS 5513.
Description: Population genetics relevant to DNA analysis technologies to identify perpetrators of crime. Includes foundation of statistical knowledge in forensic DNA analysis and family relatedness testing, history and application of statistical and population genetic theory to assigning weight to matches in DNA profiles for the court.
Credit hours: 2
Contact hours: Lecture: 2 Contact: 2
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5282 Methods in Forensic Sciences
Prerequisites: Permission of instructor.
Description: Advanced-level laboratory course in which students apply knowledge from earlier course work in a hands-on setting and employ fundamental techniques and methods related to forensic biology, forensic microbiology, forensic pathology, and forensic toxicology. Course previously offered as FRNS 5281.
Credit hours: 2
Contact hours: Lecture: 2 Contact: 2
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5323 Forensic Microbiology
Prerequisites: Permission of instructor and basic microbiology recommended.
Description: Basic microbiologic techniques applied to actual forensic situations. Includes rules of evidence applied to investigations with suspected use of microorganisms as bioterrorism agents. Stresses recognition of biological agents, site sampling, and laboratory identification.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5413 Forensic Pathology and Medicine
Prerequisites: Consent of instructor.
Description: Medico-legal investigation of death and injury due to natural causes, accidents and violence. Transportation injuries, homicides, suicides, blunt- or sharp-force injuries, gunshot wounds, asphyxia,
drowning, and thermal and electrical injuries. Pediatric deaths; rape investigation; injury analysis; interpretive
toxicology; identification by dental means; anthropologic studies for determining age, sex and race; and conducting of
independent medical examinations. Demonstrations and data analysis from actual cases. Review of current
guidelines for knowledge, procedures, quality control/assurance, and certification/accreditation from national
standards boards and scientific/technical working groups.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5422 Forensic Osteology and Anthropology
Prerequisites: Current graduate student status; Graduate student in Pathology: Death Scene Investigator with
completion of FRNS 5013, FRNS 5653 and FRNS 5431; or permission of the course coordinator.
Description: Osteology portion introduces anatomical features of bones that comprise the axial and appendicular
components of the human skeleton and also considers histological structure and types of bone formation.
Anthropology portion offers overview of methods for skeletal identification and trauma analysis. Laboratory session
includes work with skeletal material and participation in an excavation.
Credit hours: 2
Contact hours: Lecture: 1 Lab: 2 Contact: 3
Levels: Graduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Forensic Sciences

FRNS 5423 Blast Injuries and Effects
Prerequisites: Permission of instructor and faculty advisor.
Description: Takes a comprehensive view into the nuances of explosive effects on the human body. Specifically
scrutinized will be primary, secondary, tertiary, and quaternary blasts effects on lungs, the cardiovascular system,
neurological functions, integumentary systems, long bone extremities, otic, ophthalmic, and psychological. Provides
students the opportunity to research a focus area of interest related to casualties of explosive events.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5443 Interdisciplinary Post Blast Investigation
Description: As a result of the discussions, readings, lectures, case studies and research conducted during the
class, the student is expected to develop an improved understanding of the forensic fields involved in post-blast
investigations.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5513 Forensic Bioscience
Prerequisites: FRNS 5013; college-level chemistry and biology.
Description: Concepts of toxicology and identity testing, the two areas representing the most extensive application of
the fields of chemistry, biology and genetics to forensic science. History, theory, application and quality assurance
concepts to the material. Working knowledge of how toxic compounds affect human physiology and how they are
identified in the laboratory. Basic concepts in genetics and their application to tracing origin of biological samples in
civil or criminal investigations as well as resolving disputed family relationships.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences
**FRNS 5523 Forensic Toxicology**
*Description:* Introduction of fundamental aspects of forensic toxicology and emphasis on major subfields of postmortem forensic toxicology, human performance toxicology and forensic drug testing. Examination of methodologies and analyses associated with these three major subfields.
*Credit hours:* 3
*Contact hours:* Lecture: 3 Contact: 3
*Levels:* Graduate
*Department/School:* Forensic Sciences

**FRNS 5533 Drug Toxicity**
*Description:* Introduces fundamental aspects of abused drugs from a toxicological perspective and examines major disciplines of toxicology. Also covers basic principles of toxicology applied to different classes of commonly abused drugs.
*Credit hours:* 3
*Contact hours:* Lecture: 3 Contact: 3
*Levels:* Graduate
*Department/School:* Forensic Sciences

**FRNS 5543 Advanced Forensic Toxicology**
*Prerequisites:* FRNS 5523.
*Description:* Familiarizes the student with advanced aspects of forensic toxicology in view of current forensic toxicological trends. Covers risk assessment principles, factors in pharmacokinetics, weapons of mass destruction, and integrating concepts with current applications.
*Credit hours:* 3
*Contact hours:* Lecture: 3 Contact: 3
*Levels:* Graduate
*Department/School:* Forensic Sciences

**FRNS 5613 Criminalistics and Evidence Analysis**
*Prerequisites:* Admission to program.
*Description:* Introduction to techniques and tools used for crime scene investigations and analysis of evidence. Introduction to the forensic laboratory, its operation and function, forensically applied scientific concepts, analytical instrumentation and microscopy, and documentation, collection and preservation of physical evidence. Review of FBI-sanctioned working group guidelines for evidence gathering, evidence handling, quality control and accreditation.
*Credit hours:* 3
*Contact hours:* Lecture: 3 Contact: 3
*Levels:* Graduate
*Department/School:* Forensic Sciences

**FRNS 5622 Crime Scene Laboratory and Moot Court Experience**
*Prerequisites:* Graduate standing.
*Description:* Application of strategies/techniques for effective crime scene investigation in laboratory or mock crime scene setting. Covers the duties of the first officer at the crime scene, the crime scene investigator/evidence collector, and analysis of evidence in the forensic laboratory. Builds on concepts from prerequisite courses for hands-on exercises.
*Credit hours:* 2
*Contact hours:* Lab: 4 Contact: 4
*Levels:* Graduate
*Department/School:* Forensic Sciences

**FRNS 5653 The Law and Expert Evidence**
*Prerequisites:* Admission to program.
*Description:* Review of ways that the law, particularly the law of evidence, affects the work of the forensic scientist. The beginning of the case, most often the crime scene, through the legal process, through trial and including appeals and motions for a new trial. Legal doctrines of interest to the forensic scientist, such as chain of custody, work product privileges, laying of the proper foundation, exhibits, and the standards necessary to obtain a new trial.
*Credit hours:* 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 5663 Destructive Devices/Explosives: Law and Regulations**
Prerequisites: Permission of instructor and faculty advisor.
Description: Involves a survey of the legal principles relevant to explosives and arson, including caselaw, statutes, and regulations.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 5673 Intelligence for Forensic Investigators**
Prerequisites: Permission of instructor and faculty advisor.
Description: Provides an overview on the U.S. Intelligence Community, domestic intelligence, and information sharing processes. The courses also provides researchers an opportunity to explore open source intelligence as well as use unclassified U.S. reporting databases. Finally, researchers are provided the opportunity to investigate recent terrorist bombing events in addition to domestic and international terrorist literature.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 5683 Digital and Multimedia Evidence for Investigators**
Prerequisites: Permission of instructor and faculty advisor.
Description: Digital and Multimedia evidence (DME) is available and useful in almost every single investigation. This course is designed to provide an overview of the DME forensic discipline.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 5713 Forensic Psychology**
Prerequisites: Consent of faculty.
Description: Introduction to the relationship between the disciplines of law and psychology via examination and contrast of the issues at the interface of both disciplines. Various legal terminology that calls for psychological input; legal and ethical responsibilities of forensic psychologists, criminal behavior, punishment and deterrence, violence and mental illness, competency to stand trial, the insanity defense, eyewitness testimony, the death penalty, and polygraph testing. Exploration of the role of legal and mental health systems in social control, impact of psychological knowledge on functioning of the legal system. Examination of psychological topics and paradigms relevant to study of particular legal subsystems or topics.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 5723 Advanced Forensic Psychology**
Prerequisites: FRNS 5013 & FRNS 5713.
Description: Expands on topics covered in FRNS 5713. Covers function of the mental health professional in criminal cases, nature and impact of mental illness on individual life and freedom, reasons behind crimes, gender differences in the criminal justice system, and laws pertinent for mental health professionals.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences
FRNS 5733 Forensic Victimology
Prerequisites: FRNS 5013 or permission of instructor.
Description: Introduction to victimology, emphasizing victims' issues within the justice system and in medico-legal investigations. Explores impact of crime on victim; correlation between types of victims; crime and offender categories; risk factors; victim-offender and victim-society relationships; the role of victimologist as a researcher and consultant; influences of media, law enforcement, advocacy groups, businesses, and social movements.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5743 Forensic Science Seminar
Prerequisites: Graduate standing.
Description: Capstone seminar course for all subspecialty tracks in forensic sciences. Builds upon prior coursework to prepare student for comprehensive/qualifying examination in area of specialization and provide a theoretical background suitable for research leading to publication, presentation, or a thesis or dissertation.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5753 Criminal Profiling
Prerequisites: Current graduate student status or approval of instructor.
Description: Combines various academic disciplines toward a behavioral examination of the violent criminal offender. By examining the crime scene from a behavioral perspective, the psychodynamics of the offender, the sociological environmental forces, and the social psychological dimensions of the victim-offender interactions are combined for a more holistic understanding of the violent offender.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5803 Circuit Exploitation of Destructive Devices
Prerequisites: Permission of instructor and faculty advisor.
Description: This course focuses on providing students with an introduction and overview of electronic and electro-mechanical initiator circuits used in Improvised Explosive Devices (IEDs). Part 1 of a 2-semester sequence course.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5813 Building Construction and Fire/Explosion Forensic Examination
Prerequisites: Permission of instructor and faculty advisor.
Description: Provides an introduction to building construction. It will focus on the importance of building construction as applied to fire and explosion investigations. Topics will include: structural mechanics, building construction concepts, properties of building materials, building and fire codes, fire and explosion behavior as it relates to building construction, fire protection features, various building types, as well as structural collapse and safety considerations.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 5823 Forensic Examination of Fire Protection Systems
Prerequisites: Permission of instructor and faculty advisor.
Description: Teaches the basic components and functions of building fire protection systems such as fire alarms and suppression systems. An emphasis will be placed on how these systems can impact the spread of a fire and how
information from these systems can be used to assist with an origin and cause investigations. Common modes of system failures will also be covered. This is a self-paced three- (3) credit course.

Credit hours: 3  
Contact hours: Lecture: 3 Contact: 3  
Levels: Graduate  
Schedule types: Lecture  
Department/School: Forensic Sciences

**FRNS 5833 Identification of Destructive Device Fuzing Systems**  
Prerequisites: Permission of instructor and faculty advisor.  
Description: Expands students' knowledge of destructive device fuzing systems and forensic exams of these systems. Focuses on the mechanical, chemical, and electrical fuzing systems of the destructive devices.  
Credit hours: 3  
Contact hours: Lecture: 3 Contact: 3  
Levels: Graduate  
Schedule types: Lecture  
Department/School: Forensic Sciences

**FRNS 5853 Electrical Theory and Failure Analysis in Forensic Fire Investigations**  
Prerequisites: Permission of instructor and faculty advisor.  
Description: Teaches basic electricity and basic electrical failure analysis familiarizing with how electricity, electrical appliances, and electrical devices can be potential ignition sources in a fire. Topics include electrical theory, electrical wiring techniques, circuit protection, appliance protection, identification of electrical melting on conductors, scene investigation methodology, current research topics, and NFPA 921 considerations.  
Credit hours: 3  
Contact hours: Lecture: 3 Contact: 3  
Levels: Graduate  
Schedule types: Lecture  
Department/School: Forensic Sciences

**FRNS 5873 Firearms and Toolmarks**  
Prerequisites: Permission of instructor and faculty advisor.  
Description: This course overview includes general history, and how firearm and toolmark-related evidence is handled from crime scene to court. The primary concern is if two or more toolmarks share a common source. Toolmarks include fired ammunition components or other crime scene recovered items, e.g., IED components. Firearm examinations determine functionality, conversion and restoration of obliterated serial numbers or other manufacturer-related markings, and assist in shooting reconstruction.  
Credit hours: 3  
Contact hours: Lecture: 3 Contact: 3  
Levels: Graduate  
Schedule types: Lecture  
Department/School: Forensic Sciences

**FRNS 5913 Forensic Accounting and Fraud Investigation**  
Prerequisites: FRNS 5013.  
Description: Introduction of concepts and tools used in the fields of forensic accounting and financial fraud investigations. Issues of alter ego, constructive trusts, fraudulent conveyances, accounting liability, business valuations, lost profits, damages, marital dissolution issues and bankruptcy. Aspects of fraud investigation, including overview of fraud in U.S., types and methods of fraud perpetration, red flags of fraud perpetrators, money laundering, and international fraud investigations. (Upon completion student will have an understanding of accounting methods used in a litigation services/fraud investigation environment and knowledge of basic requirements for drafting expert reports in accordance with Federal Rules of Civil Procedure.)  
Credit hours: 3  
Contact hours: Lecture: 3 Contact: 3  
Levels: Graduate  
Schedule types: Lecture  
Department/School: Forensic Sciences

**FRNS 5943 Forensic Management and Organizational Development**  
Prerequisites: FRNS 5013.
**FRNS 5960 Forensic Problem Solving through Applied Research**

**Description:** Examines mixed research methodologies and designs applicable to the forensic sciences. The course launches work toward a thesis or creative component, including development of a purpose statement, research question and/or hypothesis as well as construction of an introduction and literature review. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.

**Credit hours:** 1-3

**Contact hours:** Lecture: 1-3 Contact: 1-3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 5963 Forensic Statistics**

**Prerequisites:** Permission of instructor and faculty advisor.

**Description:** Surveys statistical methodology relevant to forensic scientists. Provides a basic understanding of statistics presented in recent forensic literature. Hypothesis testing, ANOVA techniques, regression, categorical techniques.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 5970 Directed Readings in Forensic Sciences**

**Prerequisites:** Permission of instructor and faculty adviser.

**Description:** Provides guided reading under direction and supervision of the instructor; in-depth, independent study on an identified topic relative to forensic sciences. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.

**Credit hours:** 1-3

**Contact hours:** Lecture: 1-3 Contact: 1-3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 5980 Non-Thesis Creative Component in Forensic Sciences**

**Prerequisites:** Permission of instructor and faculty adviser; FRNS 5063 (concurrent enrollment allowed).

**Description:** Provides final-semester capstone experience for the non-thesis graduate student through independent research or project management. Culminates with presentation of results in writing and in a public forum, which may be via electronic delivery or in person. Offered for variable credit, 1-3 credit hours, maximum of 3 credit hours.

**Credit hours:** 1-3

**Contact hours:** Lecture: 1-3 Contact: 1-3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 5990 Special Topics in Forensic Sciences**

**Prerequisites:** Permission of instructor and faculty adviser.

**Description:** Provides for exploration on special topics in the forensic sciences. Students gain an understanding at an advanced level of the particular topic presented. Offered for variable credit, 1-3 credit hours, maximum of 15 credit hours.

**Credit hours:** 1-3

**Contact hours:** Lecture: 1-3 Contact: 1-3

**Levels:** Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 6000** Doctoral Dissertation
Prerequisites: Consent of Doctoral faculty advisor.
Description: Doctoral research requirement culminating with a doctoral dissertation and PhD degree. Offered for variable credit, 1-15 credit hours, maximum of 45 credit hours.
Credit hours: 1-15
Contact hours: Contact: 1-15 Other: 1-15
Levels: Graduate
Schedule types: Independent Study
Department/School: Forensic Sciences

**FRNS 6083** Advanced Forensic Statistics
Prerequisites: FRNS 5963.
Description: Analysis of variance, experimental designs pertaining to Forensic Science research, regression and data modeling, and categorical techniques. May not be used for degree credit with STAT 5083.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 6123** Advanced Fire Dynamics
Prerequisites: FRNS 5123 and permission of instructor and Faculty Advisor.
Description: Advanced fire dynamics will reinforce and expand upon the fundamentals of fire dynamics learned in the prerequisite class. This course will cover advanced concepts in Fire Dynamics, including ventilation effects and application of fire dynamics principles to real-world fire investigations. Previously offered as FRNS 5163.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 6173** Advanced Explosion Investigation
Prerequisites: Permission from Instructor and Faculty Advisor.
Description: Demonstrates a systematic method of investigating an explosion scene. Provides instruction in explosives identification, applications, effects, fragmentation analysis, IED component recognition and evidence collection, including DNA. Previously offered as FRNS 5173.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 6183** Advanced Computer Fire Modeling
Prerequisites: Permission of instructor and faculty advisor; FRNS 5183 Basic Computer Fire Modeling.
Description: Focuses on the creation and usage of fire models to assist with fire investigations. Topics include advanced meshing techniques; modeling of wind and other ventilation sources; using model output to diagnose problem areas; how to conduct sensitivity analysis of computer fire model results and discussion of use of fire models in the support of investigations and trials. Previously offered as FRNS 5193.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

**FRNS 6243** Historical Evolution of Forensic Genetics
Prerequisites: Graduate standing.
Description: Intended to trace the evolutionary progression of the field of Forensic Biology and Genetics from its origins in the 1970s with the use of serological methods to current day DNA testing routinely used worldwide for the investigation of crime and in cases of questioned family relatedness.
FRNS 6423 Advanced Blast Injuries and Effects
Prerequisites: FRNS 5423 or permission of instructor and faculty advisor.
Description: This course is a comprehensive view into nuances of explosive effects on the human body, building on FRNS 5423. Fifth order effects/Quinary effects of blast injury will be scrutinized. Focus on Quinary effects, the contamination and after affects, including but not limited to: radiological, chemical, and biological effects from explosives. Course provides students opportunity to research focus area of interest related to casualties of explosive events. Previously offered as FRNS 5433.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 6513 Advanced Methods in Forensic Genetics
Prerequisites: Graduate standing.
Description: This course is designed to develop a deep theoretical understanding as well as practical laboratory skills in sophisticated methods for the molecular analysis of DNA and RNA that may exist as biological evidence recovered from a crime scene.
Credit hours: 3
Contact hours: Lab: 6 Contact: 6
Levels: Graduate
Schedule types: Lab
Department/School: Forensic Sciences

FRNS 6713 Applied Forensic Theory
Prerequisites: Graduate standing.
Description: Cover the basics of popular criminological, criminalistics, and criminal justice theories used in social, behavioral and forensic science research. Theories provide explanations for why individual engage and desist from crime and delinquency. These theories provide perspectives on the criminal justice system, the law, punishment, and the relation to criminal and civil law.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 6723 Research Design and Methods
Prerequisites: Graduate standing.
Description: Overview of mixed methods research, describing the history and foundations of this form of research, and the relationship of mixed methods research to law and the forensic sciences.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences

FRNS 6733 Juvenile Issues in Forensic Sciences
Prerequisites: Graduate standing.
Description: Focuses on the nature and extent of delinquency, the causes of delinquency, patterns of delinquency, and reactions to delinquency. Covers the scientific approach to understanding delinquency, the law and both the civil and criminal juvenile justices systems.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Forensic Sciences
**FRNS 6800 Critical Readings in Forensic Sciences**

**Prerequisites:** Consent of faculty advisor.

**Description:** Provides experience with the primary literature in forensic sciences, with training in evaluation methodologies, experimental design, data presentation, and statistical designs. Offered for variable credit, 1-3 credit hours, maximum of 9 credit hours.

**Credit hours:** 1-3

**Contact hours:** Contact: 1-3 Other: 1-3

**Levels:** Graduate

**Schedule types:** Independent Study

**Department/School:** Forensic Sciences

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**FRNS 6843 Advanced Destructive Device Circuit Exploitation**

**Prerequisites:** Permission of instructor and faculty advisor; FRNS 5803 Circuit Exploitation of Destructive Devices.

**Description:** Examines electro-mechanical IED designs that are found on the open-source Internet. Examines electro-mechanical initiator circuitry from the perspective of forensics. Examines initiator circuit families such as: Timers, Pressure Sensitive, Radio Controlled, etc. Previously offered as FRNS 5843.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 6853 Advanced Electrical Theory and Failure Analysis in Forensic Fire Investigations**

**Prerequisites:** Permission of instructor and faculty advisor; FRNS 5853 Basic Electrical Theory and Failure in Forensic Fire Investigations.

**Description:** Provides the student with a more advanced understanding of electricity, energy, and power. Allows the ability to comprehend electrical failures and explain them to a jury. Previously offered as FRNS 5863.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 6903 Advanced Forensic Examination of Firearms**

**Prerequisites:** FRNS 5873.

**Description:** Advanced Firearm Identification deals with advanced aspects of the forensic science discipline of firearm identification. This course builds on the introductory course Overview of Firearm and Toolmark Identification by going into detail with respect to firearm-related evidence and how it is examined and compared by a firearm examiner in a forensic laboratory. The course will discuss firearm-related evidence from the crime scene to the courtroom - its recovery, examination, comparison and investigative value.

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 6923 RCIED - Advanced Analysis and Mitigation**

**Credit hours:** 3

**Contact hours:** Lecture: 3 Contact: 3

**Levels:** Graduate

**Schedule types:** Lecture

**Department/School:** Forensic Sciences

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**FRNS 6990 Advanced Special Topics in Forensic Sciences**

**Prerequisites:** Consent of faculty advisor.

**Description:** Tutorials in areas of forensic sciences not addressed in other courses. Offered for variable credit, 1-3 credit hours, maximum of 9 credit hours.

**Credit hours:** 1-6

**Contact hours:** Contact: 1-6 Other: 1-6

**Levels:** Graduate
Schedule types: Independent Study  
Department/School: Forensic Sciences  

FEMP courses from OSU’s Fire and Emergency Management program may also qualify as electives. Options include one-week summer and intercession classes available on campus, usually for three credit hours. See http://femp.okstate.edu/ for course listings and registration information. Advance approval from the advisor is required.

N. Textbook Guidance  
To get started finding your course materials, log in with your O-KEY information to see a customized book list populated with just the textbooks you need based on your class schedule.  
https://www.shopokstate.com/courselistbuilder. Please know that the OSU Medical Library makes every effort to provide free access to textbooks (https://medicine.okstate.edu/library/).

IX. Graduate Programs in Health Care Administration  
The School of Healthcare Administration has a Master of Science in Health Care Administration, a Master of Science in Global Health, and a Graduate Certificate in Health Care Administration. The Health Care Administration (HCA) Program is a Master of Science degree in Health Care Administration with an option in healthcare leadership and entrepreneurship or an option in administration. The curriculum provides exposure to management concepts, processes and techniques associated with administration and entrepreneurship functions in a variety of health care organizations. This degree is ideal for those individuals working in health care who wish to move into management or executive positions however healthcare experience is not required. The Master of Science in Global Health is designed to provide adequate preparation to enter either a governmental, non-profit, or academic career setting. The Graduate Certificate in Health Care Administration has an option in Administration, Healthcare Finance, Leadership and Organizational Development in Healthcare, and Global Health. These degrees offer on-site courses at the OSU Center for Health Sciences in Tulsa as well as distance learning opportunities. These degrees can be completed in-class or fully online. A D.O./M.S. in HCA degree is also offered through the School of Health Care Administration (see Section G below).

The M.S in HCA and the M.S. in Global Health consist of 32 total hours.

The Graduate Certificate in Health Care Administration consists of 12 total hours comprised of courses within the chosen option.

A. Admission Information & Application Procedure

Admission Requirements
1. A 3.0 or better grade point average in last 60 credit hours of coursework.
2. A baccalaureate degree

Required Application Elements
1. Graduate Application Admission Form
   • Please mark ‘Degree Candidate’ as the Admission status.
   • Please list ‘Health Care Administration’ as the proposed major.
   • Please list ‘Master of Science’ as the degree sought.
2. Application Fee – Online application fee is $50.00. International application fee is $75.00. Payment can be made online.
3. Official Transcripts – Please submit an official transcript from each college or university you have attended or are currently attending, including OSU. Applicants are responsible for contacting these schools and requesting official transcripts. Students should have earned a minimum of a 3.0 GPA in the last 60 hours of undergraduate or graduate coursework.
4. Health Care Experience – Please outline your health care experience, if any, and how you see this program benefiting your career in your goal statement below.
5. Statement of Qualifications, Goals & Objectives – Please prepare a one- to two-page, typed, double-spaced essay that includes the following:
   a. Description of your current job.
   b. Description of current and past health care experience, if any.
   c. What are your career goals?
   d. How will the HCA program help you in achieving these goals?
   e. Why are you applying to OSU’s HCA program?
f. What personal strengths will help you attain your goals?
g. What personal challenges do you face to attain your goals?

Applicants to the HCA Program should apply online at the OSU Graduate College: https://gradcollege.okstate.edu/apply/.

Application Deadlines:
- Fall admission: July 1
- Spring admission: Dec. 1
- Summer admission: May 1

B. Master of Science Degrees and Graduate Certificate Program Requirements and Restrictions

Credit for Course Work: The M.S. student must successfully complete at least 32 semester hours of course work, including the creative component or thesis.

Curriculum

Master of Science in Health Care Administration (M.S. in HCA)
The Master of Science in Health Care Administration degree requires 32 graduate credit hours which includes a thesis or creative component project.

M.S. in HCA, Non-Clinical Track Students: 14 Core Credits and Other Degree Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 5013 Survey of Healthcare Administration</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5093 Leadership Methods in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5123 Research and Evaluation Methods in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5033 Legal Issues in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5052 Directed Readings in Healthcare</td>
<td>2</td>
</tr>
</tbody>
</table>

Other Requirements by Option or Track: 18 Credits

Option in Healthcare Leadership and Entrepreneurship (creative component)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 5163 Healthcare Accounting and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5113 Entrepreneurship and the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5043 Organizational Leadership in Healthcare</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5023 Human Resources in Healthcare and Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>Elective courses as directed or approved by the advisor</td>
<td>8 credits</td>
</tr>
</tbody>
</table>

Option in Administration (Creative Component)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 5103 Intro to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5063 Healthcare Compliance</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5083 Healthcare Finance</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5023 Human Resources in Healthcare and Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>Elective courses as directed or approved by the advisor</td>
<td>8 credits</td>
</tr>
</tbody>
</table>

Option in Healthcare Leadership and Entrepreneurship (Thesis)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 5163 Healthcare Accounting and Auditing</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5113 Entrepreneurship and the Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5023 Human Resources in Healthcare and Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5000 Research and Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Elective courses as directed or approved by the advisor</td>
<td>5 credits</td>
</tr>
</tbody>
</table>

Option in Administration (Thesis)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 5103 Intro to Global Health</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5063 Healthcare Compliance</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5023 Human Resources in Healthcare and Public Administration</td>
<td>3</td>
</tr>
<tr>
<td>HCA 5000 Research and Thesis</td>
<td>6</td>
</tr>
<tr>
<td>Elective courses as directed or approved by the advisor</td>
<td>5 credits</td>
</tr>
</tbody>
</table>

Elective Options (Advisor Approval Required)

- HCA 5133 Healthcare Informatics 3 hours
HCA 5010 Special Topics in Healthcare 3 hours
HCA 5063 Healthcare Compliance 3 hours
HCA 5083 Healthcare Finance 3 hours
HCA 5113 Entrepreneurship and the Health Sciences 3 hours

Other Management, MBA, Operations or Marketing courses may be utilized with advisor approval.
The thesis option is 32 hours which includes 26 hours of core courses with 6 hours of thesis. The creative component option is 32 hours with the creative component embedded in qualified courses.

**Master of Science in Health Care Administration (Clinical Track)**
HCA 5013 Survey of Healthcare Administration 3 hours
HCA 5083 Financial Structures in Healthcare Organizations 3 hours
HCA 5093 Leadership Methods and Styles in Healthcare 3 hours
HCA 5990 Clinical Operations Management 3 hours
HCA 5263 Patient Safety, Quality Management and Improvement 3 hours
HCA 5063 Healthcare Compliance 3 hours
HCA 5123 Research and Evaluation Methods in Healthcare 3 hours
HCA 5133 Healthcare Informatics 3 hours
HCA 5283 Physician Practice Management 3 hours
HCA 5303 Patient Experience 3 hours
HCA 5133 Entrepreneurship and the Health Sciences 3 hours

**Master of Science in Global Health**
The Master of Science in Global Health requires 32 graduate credit hours which includes a creative component project.

HCA 5103 Introduction to Global Health 3 hours
HCA 5143 Relief and Development in Global Health 3 hours
HCA 5153 International Health Systems 3 hours
HCA 5173 Emerging Global Infectious Diseases 3 hours
HCA 5183 Global Environmental and Occupational Health 3 hours
HCA 5193 Health Aspects of Disasters 3 hours
HCA 5273 Understanding Global Burden of Disease 3 hours
HCA 5020 Seminar in Global Health 3 hours
HCA 5030 Problems and Issues in Global Health 3 hours
HCA 5123 Research and Evaluation Methods in Healthcare 3 hours
HCA 5052 Directed Readings in Healthcare 2 hours

**Graduate Certificates in Health Care Administration**
The Graduate Certificate in Healthcare Administration requires 12 credit hours and each of the three Graduate Certificates available has specialized coursework to focus on Administration, Finance, and Global Health with specialized topics within the chosen option.

**Graduate Certificate in Health Care Administration - Administration**
HCA 5013 Survey of Health Care Administration 3 hours
HCA 5123 Research and Evaluation Methods in Healthcare 3 hours
HCA 5033 Legal Issues in Health Care Administration 3 hours
HCA 5063 Healthcare Compliance 3 hours

**Graduate Certificate in Health Care Administration - Finance**
HCA 5083 Financial Structures in Healthcare Organizations 3 hours
HCA 5213 Advanced Cases in Healthcare Finance 3 hours
HCA 5163 Healthcare Accounting and Auditing 3 hours
HCA 5063 Healthcare Compliance 3 hours

**Graduate Certificate in Health Care Administration – Global Health**
HCA 5103 Introduction to Global Health 3 hours
HCA 5143 Relief and Development in Global Health 3 hours
HCA 5153 International Health Systems 3 hours
HCA 5173 Emerging Global Infectious Diseases 3 hours
C. D.O./M.S. in Health Care Administration Program

The changing healthcare landscape has created a unique professional environment for students at the College of Osteopathic Medicine. In the world we live in today, the great majority of the graduates of residency programs become employed physicians within an integrated health system. Due to the complexities of these large health systems, the initial employment experience can be extremely challenging. New physicians are expected to practice medicine while simultaneously being exposed to the business intricacies of the organizations that employ them. With a greater understanding of the issues facing the integrated healthcare delivery organizations, physicians will view themselves as more effective and better able to make a greater contribution to the success of the entity.

Many of our physician graduates will have the opportunity to serve in management positions within small, medium and large healthcare delivery entities. These management and leadership opportunities will depend largely upon the ability of the physician to comprehend the challenges of the healthcare organization, as well as the preparation to make significant leadership contributions. The addition of another advanced degree in healthcare administration will enable OSU medical school graduates to prepare themselves for managerial and leadership positions in the future. The completion of the Master's in Healthcare Administration (HCA) not only makes our graduates more marketable to health systems, it creates a logical path for those physicians to prepare themselves for the leadership opportunities of the future.

The success of this program is that the curriculum is both accessible and pertinent during the initial phase of the medical school experience. Medical students pursuing the D.O./M.S. in HCA take healthcare administration coursework during the semesters prior to the beginning of the medical school experience. The coursework for the HCA program is completed over a one-year period of time. Under this delivery model, students have two summer semesters, one fall semester and one spring semester to complete the HCA coursework. Additionally, students are granted nine (9) credit hours of graduate credit for their medical school courses. The remaining 24 credit hours or eight courses are completed over the one-year period of time. Under this delivery model, medical students would graduate at the end of the fourth year with a Doctor of Osteopathic Medicine degree and an additional degree of Master of Science in Healthcare Administration.

• D.O./M.S. in HCA Degree Program
  Students wishing to receive deferred admission to the medical school and complete their H.C.A. coursework prior to the first year of medical school should indicate their interest in the D.O./M.S. in HCA degree on the OSU secondary application for medical school. Only students who successfully complete an on-campus interview for the D.O. program will be considered for this track.
  o Application Materials for the HCA portion of the D.O./M.S. in HCA program
    ▪ Applicants submit their application online. The application is found on the web at the OSU Graduate College: [https://gradcollege.okstate.edu/application-process/index.html](https://gradcollege.okstate.edu/application-process/index.html).
    ▪ Three letters of recommendation from individuals familiar with the educational background of the applicant. Letters of recommendation submitted to the D.O. program can be forwarded to the School of Healthcare Administration, if requested.
    ▪ Submit a Personal Statement that addresses the applicant's desire to pursue the D.O./M.S. in HCA degree program.

In addition to submitting the graduate application materials listed above, dual degree students must apply separately to the D.O. program. Consult the D.O. admissions page for a complete list of application materials and procedures: [https://medicine.okstate.edu/com/admissions/how-to-apply.html](https://medicine.okstate.edu/com/admissions/how-to-apply.html). Dual degree students may substitute the MCAT for the GRE exam. The deadline for submitting all secondary application materials is March 1.

D. Transfer Hours

Upon approval by the student’s advisory committee and the Dean of the Graduate College, the student may transfer a maximum of nine hours of graduate credit toward the M.S. degree.

E. Tuition & Fees

Tuition and fees are approved by both the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges and the State Regents for Higher Education and are subject to change only after consideration in public meetings of those bodies.

Tuition
  • Oklahoma Resident $ 230.45 per credit hour
  • Non-Resident $ 876.40 per credit hour
  • Non-Resident (Online Only) $ 360.00 per credit hour
Fees

- Non-Residents (Online Only Mandatory Fees) $32.98 per credit hour
- Supplemental Off-Campus Fee (Web Courses) $25.00 per credit hour
- Technology Services Fee $10.41 per credit hour
- Library Automation Fee $7.50 per credit hour
- Security Services Fee $4.00 per credit hour
- Student Activity Fee $7.72 per credit hour
- Academic Records Fee $3.35 per credit hour
- Wellness Center Fee (On-Campus Students Only) $7.29 per credit hour
- Printing Fee (On-Campus Students Only) $1.53 per credit hour
- Laboratory Fee (On-Campus Lab Courses) $125.00 per course
- Student Health Fee $64.00 per semester

Tuition and Fees are subject to change.

F. Financial Aid
Students needing assistance with loans should contact the Financial Aid Coordinator at OSU-Stillwater.

- OSU-Stillwater Office of Financial Aid and Scholarships: (405) 744-6604

G. Contact Information
If you have any questions or need additional information, please do not hesitate to contact our offices. We are open weekdays from 8 a.m. to 5 p.m. central time:

Amanda Benn, HCA Program Manager
Graduate Program in Health Care Administration
OSU Center for Health Sciences
1111 West 17th Street
Tulsa, OK 74107
Telephone: (918) 561-1402
Fax: (918) 561-1416
Email: amanda.benn@okstate.edu.

H. Health Care Administration (HCA) Course Descriptions

HCA 5000 Research and Thesis
1-3 credits, max 9. Serves as the independent research and preparation of the thesis for the MS degree in Health Care Administration. Course includes the study of existing research and methodologies directly related to the individual discipline via computer, literature review, classroom and applied training.

HCA 5010 Special Topics in Health Care Administration
1-3 credits, max 9. Provides an overview of current issues in health care administration that relate to planning, leadership, legal, ethical, and other related topics.

HCA 5013 Survey of Health Care Administration
Overview of current issues in health care administration that relate to planning, legal, ethical and other related topics.

HCA 5020 Seminar in Global Health
1-3 credits, max 9. Selected topics, problems and issues in global health.

HCA 5023 Human Resources in Health Care and Public Administration
Review, discuss and analyze current issues, rules, practices and governance of human resources in health care and public administration.

HCA 5030 Problems and Issues in Global Health
1-3 credits, max 9. In-depth exploration of contemporary problems in global health.

HCA 5033 Legal Issues in Health Care Administration
Explore, discuss and analyze current legal issues and topics that relate to all aspects of the health care profession.

HCA 5040 Advanced Issues in Health Care Administration
1-3 credits, max 9. Special intensive examination of selected topics in health care administration.
HCA 5043 Organizational Leadership and Development in Health Care
Teaches leadership development theories, perspectives and skills found within health care organizations. Provides insight on leadership styles, team development, coaching and fostering growth. Prepares leaders for embracing change including globalization, knowledge management and sustainability.

HCA 5052 Directed Readings in Health Care Administration
2 credits, max 2. Focuses on specific topics of interest and emphasis in health care administration. Topics will be chosen or assigned for focused literature review.

HCA 5063 Health Care Compliance
Introduces general concepts as they relate to health care compliance issues including legal issues, risk assessment, informed consent, credentialing, compliance and ethics.

HCA 5073 The Social Structure of Health Care Organizations
Sociology of health care with an understanding of the interconnectedness of financial incentives, social relationships, and health system performance. Examine the role physicians play in the social structure of health care institutions and the changing role of physicians in the health system.

HCA 5083 The Financial Structure of Health Care Organizations
Overview of the financial structure of the U.S. health care system in health organizations. Provide the non-financial health administrators tools to work effectively with financial professions to achieve organizational goals.

HCA 5093 Leadership Methods and Styles in Healthcare
Introduces leadership methods, styles and situations that are unique in the health care field. Interprets those styles through specific case studies. Discusses the importance of strategic leadership planning.

HCA 5103 Intro to Global Health
Highlights the chronic, emerging and re-emerging global health issues and examines possible measures to address them.

HCA 5113 Entrepreneurship and the Health Sciences
Introduces entrepreneurship as it relates to the health care industry. Includes concepts within the for- and non-profit sectors. Focuses on entrepreneurial competencies of creativity and innovation.

HCA 5123 Survey of Research and Evaluation in Health Care
Introduces a basic understanding of statistics used in healthcare and biomedical research and developing research from the biomedical bench to the final stages of clinical trials. Analyzes healthcare program outcomes.

HCA 5133 Health Care Informatics
Focuses on healthcare informatics for the entire spectrum within the medical community. Covers local and community applications to broad global initiatives.

HCA 5143 Relief and Development in Global Health
Explores the roles and interaction of intergovernmental and governmental agencies and NGOs involved in global health.

HCA 5153 International Health Systems
Provides an overview of the differences in global health care systems using a historical and socio-political context making extensive use of country case studies.

HCA 5163 Healthcare Accounting and Auditing
Introduces the unique aspects of healthcare accounting and auditing. Presents and discusses various accounting and auditing topics as they relate to healthcare administration.

HCA 5173 Emerging Global Infectious Diseases
Develops a realistic approach to addressing emerging global infectious diseases, emphasizing global health implications in the areas of prevention, surveillance, and control.

HCA 5183 Global Environmental and Occupational Health
Examines environmental health concerns in the context of public health, and the social, economic and other factors that mitigate the effects of environmental hazards or otherwise influence the population.
HCA 5193 Health Aspects of Disasters
Addresses important thematic areas such as types, phases and effects of disasters on health, public health and medical responses of infectious diseases and pandemics.

HCA 5203 Health Impact Assessment
Evaluates the connection between community design and public health by applying evidence to inform decision-making for new policies and plans.

HCA 5213 Advanced Cases in Healthcare Finance
Evaluates specific in-depth case studies in the financing and operations of different healthcare enterprises. Covers advanced concepts in health care finance that present analysis and judgement scenarios which require appropriate solutions.

HCA 5223 Ethics in Healthcare
Evaluates specific in-depth case studies in ethical issues found within the healthcare setting. Presents scenarios for analysis which require appropriate solutions.

HCA 5233 Advanced Leadership Methods and Styles in Healthcare
Evaluates specific in-depth leadership styles and methods of different healthcare enterprises. Covers advanced concepts in health care leadership that present analysis and judgement scenarios which require appropriate solutions.

HCA 5263 Patient Safety, Quality Management and Improvement
Introduces the fundamentals of patient safety and quality. Examines the evaluation of quality and quality measures while assessing principles of quality improvement.

HCA 5273 Understanding Global Burden of Diseases
Provides an overview of methods used for studying the global burden of diseases. Develops an understanding of how to use these methods to assess major trends for future forecasting.

HCA 5283 Survey of Physician Employment and Practice Management
Provides a comprehensive discussion of various types of physician-related administrative areas including physician recruitment, practice management, licensing, credentialing, contracts, and strategic planning.

HCA 5303 Patient Experience
Provides a comprehensive development of skills in the area of patient experience. Understand the framework of the dimensions of patient-centered, safety, effectiveness, timeliness, efficiency, and equity.

HCA 5990 Internship in Health Care Administration
1-3 credits, max 3. Provides practical training and experience within a health care setting under the guidance of a designed supervisor. This experience should complement graduate studies in health care and support related career goals. Note: requires two hours per week for 16 weeks at internship site for each credit hour of enrollment; four hours per credit for eight-week session.

I. Textbook Guidance
In an effort to provide students with pricing for textbooks that are required for the academic year, the following is a list of textbooks, ISBNs, and prices for each course. Please know that the OSU Medical Library makes every effort to provide free access to textbooks (https://medicine.okstate.edu/library/). This list may be updated throughout the year.

<table>
<thead>
<tr>
<th>Course</th>
<th>Textbook Title</th>
<th>ISBN</th>
<th>Retail Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCA 5033 Legal Issues in Health Care Administration</td>
<td>Legal and Ethical Issues for Health Professionals, 4th Ed. Pozgar, et. al. Jones and Bartlett.</td>
<td>978-1284036794</td>
<td>$124</td>
</tr>
<tr>
<td>HCA 5043 Organizational Leadership and Development in Health Care</td>
<td>Practical Guide to Aligning Leaders and Followers, 1st Ed. Atchison, et. al. Health Administration Press.</td>
<td>978-1567932164</td>
<td>$68</td>
</tr>
<tr>
<td>Course</td>
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<tr>
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</tr>
<tr>
<td>HCA 5103 Intro to Global Health</td>
<td>Introduction to Global Health, 2nd Ed. Jacobsen, et. al. Jones and Bartlett.</td>
<td>978-0-7637-5159-3</td>
<td>$100</td>
</tr>
<tr>
<td>HCA 5123 (Fall) Survey of Research and Evaluation in Health Care</td>
<td>Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, 3rd Ed. Creswell, J. Sage Publications.</td>
<td>978-1412965576</td>
<td>$70</td>
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<tr>
<td>HCA 5143 Relief and Development in Global Health</td>
<td>Going Global: Transforming Relief and Development NGOs. Kumarian Press.</td>
<td>978-1565491359</td>
<td>$70</td>
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</tbody>
</table>

X. Graduate Program in Athletic Training

The Athletic Training program is a Master of Athletic Training (MAT) degree. The MAT graduate program in the School of Allied Health at OSU Center for Health Sciences prepares individuals to become competent and independent clinicians who will enhance the quality of patient health care and advance the profession of athletic training through practice and research. The master of athletic training program instills critical thinking, problem solving, ethical reasoning abilities and interpersonal skills promoting lifelong learning and an enrichment in the quality of lives for individuals in diverse settings. Our curriculum provides a comprehensive, multifaceted education coupled with a clinical foundation to prepare future health care professionals for a career in athletic training.

The MAT consists of 56 (non-thesis) or 59 (thesis) credit hours.

ATHLETIC TRAINING MISSION STATEMENT

Prepare individuals to become competent and independent clinicians who will enhance the quality of patient health care and advance the profession of athletic training through the application of evidence-based practice and translational research. Our MAT program instills critical thinking, problem solving, ethical reasoning abilities and interpersonal skills promoting lifelong learning and an enrichment in the quality of lives for individuals in diverse settings.

ATHLETIC TRAINING PROGRAM GOALS

The charge of the Oklahoma State athletic training curriculum is to provide a comprehensive, multifaceted education coupled with a clinical foundation to prepare future health care professionals for a career in athletic training. The program emphasizes evidence-based practice and the application of best practices that can transform health care. Graduates of the program possess an understanding of the research process and recognize the importance of applying evidence-based research to clinical practice.

Our goals are to prepare graduates to apply a wide variety of specific health care skills and knowledge within each of the following domains: Injury/Ilness Prevention and Wellness Protection; Clinical Evaluation and Diagnosis; Immediate and Emergency Care; Treatment and Rehabilitation; Organizational and Professional Health and Well-being.

ATHLETIC TRAINING PROGRAM LEARNING OBJECTIVES

1. Apply the common values of the athletic training profession including:
   a. privacy of patients
   b. teamed approach to practice
   c. legal practice
   d. ethical practice
   e. advancing knowledge
   f. cultural competence
   g. professionalism

2. Demonstrate knowledge of the practice of athletic training, to think critically about the practices involved in athletic training, including the ability to integrate knowledge, skill and behavior, and to assume professional
responsibility, the entry-level certified athletic trainer must possess an understanding of the following in relation to the practice of Athletic Training:

a. evidence-based practice
b. prevention and health promotion
c. clinical examination and diagnosis
d. acute care of injuries/illnesses
e. therapeutic interventions
f. psychosocial strategies
g. healthcare administration
h. professional development

3. Demonstrate mastery of all clinical proficiencies outlined in the most current edition of the Athletic Training Education Competencies

4. Be proficient in all domains, tasks, knowledge and skills statements outlined in the most current Board of Certification Role Delineation Study

a. Injury/Illness Prevention and Wellness Protection
b. Clinical Evaluation and Diagnosis
c. Immediate and Emergency Care
d. Treatment and Rehabilitation
e. Organizational and Professional Health and Well-being

Injury/Illness Prevention and Wellness Protection – Students will learn to identify injury, illness, and risk factors associated with participation in sport/physical activity and implement all components of a comprehensive wellness protection plan and injury prevention program.

Clinical Evaluation and Diagnosis - Students will be able to conduct a thorough initial clinical evaluation of injuries and illnesses commonly sustained by the athlete/physically active individual and formulate an initial diagnosis of the injury and or illness for the primary purposes of administering care or making appropriate referrals to physicians for further diagnosis and medical treatment.

Immediate and Emergency Care - Students will learn to provide appropriate first aid and emergency care for acute injuries according to accepted standards and procedures, including effective communication for appropriate and efficient referral, evaluation, diagnosis, and follow up care.

Treatment and Rehabilitation – Students will be able to plan and implement a comprehensive treatment, rehabilitation and/or reconditioning program for injuries and illnesses, including long and short-term goals, for optimal performance and function.

Organizational and Professional Health and Well-being - Students will be able to plan, coordinate and supervise the administrative components of an athletic training program, comply with the most current BOC practice standards and state/federal regulations, and develop a commitment to life-long learning and evidence-based clinical practice.

A. Admission Information

Admission Requirements
The applicant must have a bachelor’s degree from an accredited college or university or have been accepted into and completed 120 credit hours of the 3/2 Health Education and Promotion degree through Oklahoma State University to be considered for admission. A grade point average of 3.0 (on a 4.0) scale is required; students must attain a “B” in required coursework and complete a minimum of 50 hours of observation under a Certified Athletic Trainer.

Required Prerequisite Coursework
- Introductory Biology
- Applied Human Anatomy
- Medical Terminology
- Biomechanics
- Human Physiology
- Elementary Statistics
- General Chemistry
- General Physics
- Principles of Nutrition
- Physiology of Exercise
- Psychology
International Student Admission
International students must take the Test of English as a Foreign Language (TOEFL) and achieve a minimum score of 79 on the iBT; or for the paper version of the TOEFL, a minimum score of 550. An IELTS score of 6.5 will be accepted in place of the TOEFL/TWE.

Athletic Training Employment Background Checks
Anyone considering a career in health care should be aware that job and licensure applications typically go beyond normal requirements for transcripts, employment history, references, and interviews. The Athletic Training Program requires that all students complete a criminal-record check prior to the first clinical rotation. Typically this occurs during the apprenticeship licensure process. Although the OSU-CHS application asks about felony convictions only, the prospective student should consider all factors that could influence future employment.

B. Application Procedure
General applications are online at the OSU Graduate College: https://gradcollege.okstate.edu/apply/. Supplemental documents will be submitted directly to the Program Director

Required Application Elements
1. Graduate Application Admission Form
   • Please mark ‘Degree Candidate’ as the Admission status.
   • Please list ‘Athletic Training’ as the proposed major.

2. Application Fee—online application fee is $50.00. International application fee is $75.00. Payment can be made online.

3. Official Transcripts—Please submit an official transcript from each college or university you have attended or are currently attending, including OSU. Applicants are responsible for contacting these schools and requesting official transcripts. Students should have earned a minimum of a 3.0 GPA.

Supplemental Documentation
• Consent for Possession of Medical Records: https://medicine.okstate.edu/site-files/documents/at/consent-possession-medical-records_2015.pdf
• Criminal Background Check: https://medicine.okstate.edu/site-files/documents/at/criminal-background-check-2015.pdf
• OSU ATP Health History: https://medicine.okstate.edu/site-files/documents/at/medical-history-exam.pdf
• Observation Hours Report: https://medicine.okstate.edu/site-files/documents/at/at_observation_hours.pdf
• OSHA Respirator Medical Evaluation Questionnaire: https://medicine.okstate.edu/site-files/documents/at/osu-medical-questionaire-resp-qust.pdf

Supplemental documents can be found at https://medicine.okstate.edu/athletic-training/admissions.html. Mail documents to:
   Dr. Jennifer Volberding
   OSU Center for Health Sciences
   1111 W 17th St.
   Tulsa, OK 74107

Application Deadline and Process
Priority application deadline: December 15th
Final application deadline: February 1st

Athletic Training is a rigorous and intense program that places specific requirements and demands on the students enrolled. An objective of this program is to prepare graduates to enter a variety of employment settings and render care to a wide spectrum of individuals engaged in physical activity. Any individual wishing to pursue formal admission into the program must submit a formal application to the program by the Priority Application deadline on Dec. 15. Final Application deadline is February 1st. All qualified individuals will participate in a formal interview with members of the Athletic Training faculty and staff either in person or via video conference. Final selection for admission into the formal Athletic Training Program is determined by objective evaluation of all documentation. Students are notified of their acceptance/rejection by March 1st. Acceptance is contingent upon the student being in compliance with the curriculum’s policies and procedures, receiving a satisfactory background check, meeting the technical standards, successfully completing the physical assessment and obtaining all immunizations required of health care professionals.
C. Master of Athletic Training (MAT) Program Requirements

The MAT program is a cohort based curriculum with students entering in June and completing 24 months of coursework. A minimum of a “B” must be achieved in all coursework and an 80% on all practical exams for graduation.

Curriculum

Summer I
- MAT 5103 Emergency Management in Athletic Healthcare
- MAT 5183 Injury Prevention
- BiOM 5122 Clinical Anatomy for Allied Health

Fall I
- MAT 5223 Therapeutic Modalities
- MAT 5233 Clinical Evaluation and Diagnosis of the Lower Extremity
- MAT 5243 Therapeutic Exercise of the Lower Extremity
- MAT 5202 Practicum I

Spring I
- MAT 5333 Clinical Evaluation and Diagnosis of the Upper Extremity
- MAT 5343 Therapeutic Exercise of the Upper Extremity
- MAT 5315 Clinical Evaluation, Diagnosis, Pathology, and Pharmacology of Non-Orthopedic Medical Conditions
- MAT 5302 Practicum II

Summer II
- MAT 5412 Radiography Evaluation and Assessment
- MAT 5573 Athletic Healthcare Administration
- MAT 5402 Practicum III

Fall II
- MAT 5553 Research Methods in Athletic Healthcare
- MAT 5583 Psychosocial Strategies in Athletic Healthcare
- MAT 5443 Clinical Diagnosis, Evaluation and Therapeutic Exercise of the Head and Spine
- MAT 5481 Advanced Athletic Training Techniques
- MAT 5502 Practicum IV

Spring II
- MAT 5000 Research and Thesis
- MAT 5602 Practicum V

D. Textbook Guidance

In an effort to provide students with pricing for textbooks that are required for the academic year, the following is a list of textbooks, ISBNs, and prices for each course. Please know that the OSU Medical Library makes every effort to provide free access to textbooks (https://medicine.okstate.edu/library/). This list may be updated throughout the year.

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<tr>
<td>MAT 5315 Clinical Evaluation, Diagnosis, Pathology, and Pharmacology of Non-Orthopedic Medical Conditions</td>
<td>Clinical Pathology for Athletic Trainers, 3rd Ed. O’Connor &amp; Fincher. Slack.</td>
<td>978-1617110917</td>
<td>$72</td>
</tr>
<tr>
<td>Course</td>
<td>Textbook Title</td>
<td>ISBN</td>
<td>Retail Price</td>
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<tr>
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</tr>
<tr>
<td>Therapeutic Exercise of the Head and Spine</td>
<td>Examination of Orthopedic &amp; Athletic Injuries, 4th Ed. Starkey &amp; Ryan.</td>
<td>978-0-8036-3918-8</td>
<td>$60</td>
</tr>
<tr>
<td></td>
<td>Manipulation, Therapeutic and Home Exercises, 2nd Ed. Makofsky, H. Slack.</td>
<td></td>
<td></td>
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<tr>
<td>MAT 5481 Advanced Athletic Training</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Techniques</td>
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<tr>
<td>MAT 5553 Research Methods in Athletic</td>
<td>Evidence-Based Practice in Sport and Exercise: A Practitioner’s Guide to</td>
<td>978-0-8036-4028-3</td>
<td>$40</td>
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</tbody>
</table>

E. Transfer Hours
The MAT program does not allow for the transfer of any credits.

F. Tuition & Fees
Tuition and fees are approved by both the Board of Regents for the Oklahoma Agricultural and Mechanical Colleges and the State Regents for Higher Education and are subject to change only after consideration in public meetings of those bodies.

Tuition
- Oklahoma Resident $  230.45 per credit hour
- Non-Resident $  876.40 per credit hour

Fees
Multiplied by the number of credit hours in which a student is enrolled
- Supplemental Off-Campus Fee (Web Courses) $  25.00 per credit hour
- Technology Services Fee $  10.41 per credit hour
- Library Automation Fee $  7.50 per credit hour
- Security Services Fee $  4.00 per credit hour
- Academic Records Fee $  3.35 per credit hour
- Student Facility Fee $  15.20 per credit hour
- Student Activity Fee $  7.72 per credit hour
- Student Union Fee (On-Campus Courses Only) $  5.00 per credit hour
- Wellness Center Fee (On-Campus Courses Only) $  7.29 per credit hour
- Printing Fee (On-Campus Students Only) $  1.53 per credit hour
- Laboratory Fee (On-Campus Lab Courses) $  125.00 per course
- Student Health Fee $  64.00 per semester
Program Costs for ATS
(The following are averages based on previous years)

<table>
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<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Books (per semester)</td>
<td>$300</td>
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<tr>
<td>Housing [$250.00 – $550.00 per month (approximately $400.00 * 24 months)]</td>
<td>$9,600</td>
</tr>
<tr>
<td>Hepatitis B Series (3 shots at $85 each)</td>
<td>$255</td>
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<td>Physical and Immunizations</td>
<td>$100</td>
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<td>Yearly TB and Flu Shots</td>
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<td>Clothing (annually)</td>
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<td>CPR Certification</td>
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<td>Liability Insurance</td>
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<td>Oklahoma Apprentice Athletic Trainer License</td>
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<td>Athletic Training Kit</td>
<td>$125</td>
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Travel cost *
*Travel is dependent upon the clinical site selections of the student. It is expected that students will be traveling at least once throughout the program.

Optional Expenses

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<td>Sports Medicine Club Dues</td>
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<td>(student organization, membership/participation is voluntary)</td>
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<td>Miscellaneous Items</td>
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<td>Student NATA Membership</td>
<td>$80</td>
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Tuition and Fees are subject to change.

G. Financial Aid
Students needing assistance with loans should contact the Financial Aid Coordinator at OSU-Stillwater: OSU-Stillwater Office of Financial Aid and Scholarships - (405) 744-6604

H. Program Policies

1. Technical Standards
The Athletic Training Program at Oklahoma State University is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the Athletic Training Program establish the essential qualities considered necessary for students admitted to the program to achieve the knowledge, skills, and competencies of an entry-level certified athletic trainer, as well as meet the expectations of the programs’ accrediting agency. The following abilities and expectations must be met by all students admitted to the Athletic Training Program. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program's technical standards does not guarantee a student’s eligibility for the OSU Athletic Training Program or BOC certification exam.

Candidates for selection to the Athletic Training Program must demonstrate:

1. The mental ability to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm.
2. Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients.
3. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice.
4. The ability to record the physical examination results and a treatment plan clearly and accurately.
5. The ability to maintain composure and continue to function well during periods of high stress.
6. The perseverance, diligence and commitment to complete the Athletic Training Program as outlined and sequenced.
7. Flexibility and the ability to adjust to changing situation and uncertainty in clinical situations.
8. Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.
Copies of the Technical Standard form for review and signature can be found in the Student Forms section of the Handbook and on the OSU Athletic Training Program Website.
*These Technical Standard are adopted from the NATA Education Council.

2. Physical Capabilities Assessment
Prior to acceptance into the ATP, all Athletic Training Students must complete a health history, physical exam, current immunization, and be determined by a physician that they meet the Technical Standards for Admission. If the physician identifies a student as having actual or potential mental or psychological difficulties in meeting the standards established by the program, the student will have access to a health care providers to determine the implication of such difficulties and completing the program. Additional components of the health evaluation will include immunization, prior injuries and current existing conditions. All records will be kept confidential. The original copy will be kept on file at the students healthcare provider and an electronic verification of health status will be kept in the student’s file in the program director’s locked office.

NOTE – Physical capability and health history forms will be provided to all students admitted into the formal portion of the Athletic Training Program.

3. Communicable Disease Policy
The purpose of these policies and procedures is to inform and prevent exposure to blood borne pathogens such as, but not limited to, Hepatitis B (HBV), Hepatitis C (HBC), and the human immuno-deficiency virus (HIV).

These policies and procedures are to be followed in adjunct to guidelines set forth by the Occupational Safety and Health Administration (OSHA).

* CFR 29, part 1910.1030, Occupational Exposure to Blood Borne Pathogens issued by the Occupational Safety and Health Administration (OSHA) is intended to protect workers in the United States at risk of occupational exposure to blood borne pathogens, such as the human immuno-deficiency virus and hepatitis B virus.

- Gloves must be worn for touching blood and body fluids, mucus membranes, or non-intact skin of all patients, for handling items or surfaces soiled with blood or body fluids.
- Gloves will be changed after contact with each patient.
- Masks and goggles or face shields should be worn during procedures that are likely to generate droplets of blood/body fluids to prevent exposure of mucus membranes to mouth, nose and eyes.
- Gowns or protective aprons should be worn during procedures that are likely to generate splashes of blood or other body fluids.
- Hands and other skin surfaces will be washed immediately and thoroughly with an anti-microbial soap if contaminated with blood or other body fluids.
- Hands will be washed immediately after gloves are removed.
- All Athletic Training students will take precautions to prevent injuries caused by needles, scalpels and other sharp instruments or devices during procedures.
- To prevent needle-stick injuries, needles will not be recapped, purposely bent or broken by hand, removed from disposable syringes, or otherwise manipulated by hand.
- Used disposable syringes and needles, scalpel blades and sharp items will be placed in puncture resistant containers which should be located as close to the patient care area as possible.
- Although saliva has not been implicated in HIV transmission, disposable mouthpieces, resuscitation bags and other ventilation devices will be used if the need for resuscitation arises.
- Students who have lesions and/or weeping dermatitis will report this to appropriate faculty/staff and may be required to refrain from all direct patient care until the condition resolves.
- All patients’ blood or bodily fluids, or tissue specimen spills will be cleaned up promptly with a bleach solution diluted 1:10.
- Any needle stick, blood/body fluid exposure to a student will be reported promptly to the supervisor. In event an investigation is required, follow-up care may be instituted.
- In the event of exposure to blood or other bodily fluids, the exposed individual will immediately notify Preceptor and the Occupational Health Nurse.
- The individual will immediately be administered first aid consisting of cleansing the affected area including thorough flushing of the area with water followed by washing of the area with antibacterial soap and warm tepid water.
- All necessary must be taken to disinfect and prevent disease transmission following the exposure.
- All personal materials contaminated with suspected infectious fluids will be removed and put in marked biohazard containers and properly disposed of following universal precautions.
- The Healthcare staff will provide immediate and follow up incident care (as needed). Instructions on administrative measures including screening for disease transmission will be given to the exposed individual.
• The individual **must** complete an incident report provided by the Preceptor and a copy sent to the Safety Office and Occupational Health Nurse.
• The AT Program Director will evaluate incident reports and determine what future actions should be taken in conjunction with the Safety Manager.
• The individual can be seen by the Occupational Health Nurse at the Health Care Clinic.
• All exposures require the source patient to be tested – covered by Student Health Fees. The Health Nurse will coordinate the source testing and must be notified immediately so that the source can directed to a lab for testing. Results will remain confidential and reside with the Health Nurse.
• All students, staff and faculty will be offered immunizations for Hepatitis B and other health care recommended immunizations per CDC guidelines and as required by OSHA.

4. **Retention Policy**
   • **Grade Point Average** - Students must maintain a cumulative grade point average (GPA) of 3.0 or higher (on a 4.00 scale). Should the cumulative GPA fall below a 3.0 the Athletic Training student will be placed on probation status. The probationary student will be given a verbal and written warning (including cause of probation and disciplinary action if not corrected). Failure to achieve a 3.0 GPA in the subsequent semester will result in dismissal from the Athletic Training Program.
   • **Didactic Core AT Courses** - Athletic Training students must make a grade of ‘B’ or better in ALL Athletic Training Courses. Students will be placed on Academic Probation and must retake that course at the next course offering. This will require the student to stop all forward progress within the Athletic Training Program, thus they are unable to take any further coursework until the course in question is retaken. Students not earning the minimal grade requirement on the second attempt will result in dismissal from the program. Only one didactic course retake is allowed during the program. Students earning a grade lower than a “B” for the second time in the curriculum will result in dismissal.
   • **Athletic Training Practicum** – If the minimum grade of “B” is not met in a Practicum course, the student must retake that course the following year, and is not allowed to matriculate in the curriculum (take any other AT courses, including core courses) until the satisfactory grade and proficiency in the AT Practicum skills have been successfully demonstrated. Additionally, in order for students to continue with curriculum progression, a minimum score of 80% must be achieved on the practical exams given in the AT Practicum courses. Second attempts lower than 80% will result in the student retaking that course the following year, and the student will not be allowed to matriculate in the curriculum.

5. **Grievance Policy**
   A student with an academic grievance must follow the procedures outlined in the current Catalog. Whenever a misunderstanding or problem exists, students are expected to address the misunderstanding or issue immediately with the person(s) directly involved. Students with a grievance concerning the Athletic Training Program should address the issue(s) with their faculty instructor or clinical instructor / supervisor first. If the situation is not resolved through direct discussion at this level, the student may discuss clinical matters with the Clinical Education Coordinator. If the discussion with the CEC does not resolve the matter, the complaint may be brought to the Program Director. If conversations with the Program Director do not provide satisfactory solution, the student may address the matter with the Associate dean for clinical education.

**APPEAL PROCESS**
   Any Athletic Training student in the Athletic Training Program has the right to appeal or petition any decision made by the Program Director.
   The appropriate appeal process is as follows:
   • The student must submit a written appeal to Athletic Training Program Director.
   • The student may then appeal to the Athletic Training department head.
   • The student may then appeal to the Vice Provost for Graduate Studies CHS.
   • The student may then appeal to the Vice President of Academics Affairs.
   • The student may then appeal to the Provost or President of the University.

6. **Student Withdrawal and Refund Policy**
   ***Copies of all policies can be found on the program website (https://medicine.okstate.edu/athletic-training/index.html) and in the program handbook (https://medicine.okstate.edu/site-files/documents/at/at_mat_handbook.pdf).***

I. **Contact Information**
   If you have any questions or need additional information please see our website at https://medicine.okstate.edu/athletic-training/index.html or contact us at:
XI. Graduate Program in Physician Assistant Studies

The OSU-CHS Physician Assistant Program is a 28-month directed curriculum. All students are required to be enrolled full-time and must follow the designed curricula sequence. Students will spend 13 months in the didactic phase of education, where they will receive traditional lectures as well as many hands-on experiences in laboratory and simulation settings. The second phase of training includes 15 months of clinical rotations. Required rotations include family medicine, internal medicine, emergency medicine, OB/GYN, pediatrics, psychiatry, and surgery. A minimum of two rotations will be in rural locations. Learning outcomes are met over the course of time throughout both didactic courses and clinical rotations. To ensure comprehension of these concepts, students must maintain a 3.0 cumulative GPA. Students must demonstrate clinical mastery of specific competencies and technical skills before they will be allowed to progress to the next phase of the program.

Mission
The PA Program at the Center for Health Sciences recruits, educates, and mentors a diverse group of students to increase competent and compassionate health care emphasizing increased access in rural and underserved Oklahoma.

The program places importance on fostering collegial relationships among students from various disciplines to provide professional, flexible, team-based health care.

Vision
Our vision is to educate physician assistants to become competent clinicians who make a positive impact on their patients as well as their surrounding community.

A. Admission Information

Admission Requirements
The applicant must have a bachelor’s degree from an accredited college or university by the time matriculation for the PA program occurs. A grade point average of 3.0 (on a 4.0) scale is required; students must attain a “B” in required coursework and must be completed by December 31st of the year of application.

Required Prerequisite Coursework
- Chemistry: Two semesters with at least 1 semester of lab;
- College Algebra (or higher): One semester;
- Anatomy: One semester (human cadaver anatomy preferred but not required);
- Physiology: One semester; combined courses of anatomy and physiology are accepted (need to be at least 8 hours or two semesters in length);
- Microbiology: One semester;
- Psychology: Two semesters; and
- Upper Division Science: Two semesters of 3000-4000 level coursework.

Admission Preference
Admission preference is given to Oklahoma residents. Preference is also given to applicants with academic excellence, community service, extracurricular activities, healthcare experience, healthcare shadowing, and leadership roles.

Offers of admission are contingent upon:
- Background check;
- Drug screen;
- Physical exam;
- Immunizations; and
- Acknowledgement of technical standards.
B. Admission Procedure

1. Complete CASPA Application: [https://caspa.liaisoncas.com](https://caspa.liaisoncas.com)
   - Application includes three letters of recommendation; at least one letter should be from a healthcare provider; and
   - Application includes to written statements.
2. Pay $50 supplemental application fee to the Oklahoma State University Graduate College
   - Payment can be submitted here: [https://grad.okstate.edu/register/paprogram2021](https://grad.okstate.edu/register/paprogram2021); and
   - In order to submit your payment, you must have a valid CASPA ID number.
3. Complete GRE Exam (Use CASPA OSU Code: 4754)
   - GRE must have been completed in the past 5 years; and
   - If previously completed, contact GRE to have official scores sent to 4754.
4. Complete Altus Suite – admissions assessments of non-cognitive skills
   - Register here: [https://takealtus.com](https://takealtus.com);
   - Includes CASPer: 60-90 minutes online, open-response situational judgement test (SJT);
   - Select Oklahoma State University under Physician Assistant Programs; and
   - Scores are valid for one application cycle.

Important Dates
- CASPA Application Opens: April 29th, 2021
- CASPA Application Closes: October 1st, 2021

C. Program Requirements and Policies

Requirements for Promotion
Normal progression through the curriculum requires that there be no “D,” “F,” or “NI” (Needs Improvement) grades, and that the student maintains a 3.0 GPA (70%) or above. A student will not be recommended for promotion if the student has academic deficiencies.

Student Employment Policy
Students enrolled in the program are prohibited from working in the program. Students are advised not to engage in any outside employment during their training in order to meet the demands and rigors of their educational requirements. If circumstances require the PA student to work during the course of the student's training, it is the student's responsibility to ensure that employment does not interfere with expected attendance and academic progress. Under no circumstances will the program expectations, assignments, deadlines, or examinations be altered if a conflict arises with employment and curricular expectations. If employment interferes with expected academic progress, academic counseling will be provided, and the expectation will be for the student to withdraw from existing employment. Failure to address academic progress issues may result in dismissal from the program.

Curriculum
Due to the sequential nature of the existing curriculum, OSU PA Program does not consider applicants seeking advanced placement.

Didactic Curriculum
Summer I
- 5011: Introduction to Pharmacology
- 5021: Fundamentals of Medical Imaging
- 5031: Introduction to Microbiology & Immunology
- 5041: Laboratory Medicine

Fall I
- 5015: Human Anatomy
- 5104: Medical Science Foundations
- 5112: Developing the Physician Assistant I
- 5121: Rural Health
- 5123: Applied Clinical Medicine I
- 5223: Gastrointestinal System
- 5153: Nervous System
- 5233: Psychiatry System
Spring I
  5213: Applied Clinical Medicine II
  5222: Developing the Physician Assistant II
  5124: Cardiovascular System
  5113: Respiratory System
  5133: Hematology System
  5143: Genitourinary System

Summer II
  5234: Applied Clinical Medicine III
  5242: Developing the Physician Assistant III
  5243: Endocrine System
  5263: Musculoskeletal/Integumentary System
  5253: Reproductive System

Clinical Curriculum
  5301: Research Methods for Evidence Based Medicine
  5302: Developing the Physician Assistant IV
  5554: Professional Enrichment
  5404: Family Medicine I*
  5414: Family Medicine II*
  5424: Internal Medicine I*
  5434: Internal Medicine II*
  5444: Emergency Medicine I*
  5454: Emergency Medicine II*
  5464: Obstetrics/Gynecology*
  5474: Pediatrics*
  5484: Psychiatry*
  5494: Surgery*
  5544: Medicine Selective
  5504: Medicine Elective I
  5514: Medicine Elective II
  5524: Medicine Elective III OR 5534: Surgery Elective

* Denotes a required rotation.

D. Tuition and Fees
Tuition and Fees are subject to approval by the OSU/A&M Board of Regents and the Oklahoma State Regents for Higher Education.

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<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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<td>Resident 3-year total</td>
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<td>Non-Resident 3-year total</td>
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<td>Student Technology Services</td>
<td>$250.00</td>
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<td>Library Automation &amp; Materials</td>
<td>$360.00</td>
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<td>Academic Records</td>
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<td>Academic Service Fees</td>
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Total Tuition Fees Per Year

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<td>Resident</td>
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<td>Non-Resident</td>
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Program Total Tuition and Fees

- Resident $41,928.05
- Non-Resident $81,928.05

E. Textbook Guidance

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<tbody>
<tr>
<td>PA 5031</td>
<td>Introduction to Microbiology and Immunology Medical Microbiology, 9th Ed. Murray, P.R., Rosenthal, K.S. and Pfaller, M.A. Elsevier Saunders, Philadelphia, PA. 2020.</td>
<td>9780323299565</td>
<td>$76</td>
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<tr>
<td>PA 5015</td>
<td>Human Anatomy Clinically Oriented Anatomy, 8th Ed. K. L. Moore, A. Dalley, and A. Agur. Lippincott Williams &amp; Wilkins. 2018.</td>
<td>9781496347213</td>
<td>$74</td>
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<tr>
<td>PA 5223 Gastrointestinal System</td>
<td>The 5-Minute Clinical Consult 2022: Gomella, LG. Clinician’s Pocket Reference, 30th Ed. Appleton and Lang</td>
<td>9781975179953</td>
<td>$95</td>
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<td></td>
<td>Greenberger, N.J., Blumberg, R.S., and Burakoff, R. Current Diagnosis and Treatment: Gastroenterology, Hepatology, and Endoscopy, 3rd ed. Lange, 2015.</td>
<td>9780071837729</td>
<td>$64</td>
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<tr>
<td></td>
<td>Barrett, K.E., Gastrointestinal Physiology, 2nd ed. Lange, 2013.</td>
<td>9780071774017</td>
<td>$27</td>
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<td>Spring I</td>
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<td>The 5-Minute Clinical Consult 2022: Gomella, LG. Clinician’s Pocket Reference, 30th Ed. Appleton and Lang</td>
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<td>Cardiovascular System</td>
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<td><strong>Summer II</strong></td>
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<td>Beckmann, et. al., Obstetrics and Gynecology, 8th edition.</td>
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<td><strong>Clinical Curriculum</strong></td>
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<td>PA 5301</td>
<td>Research Methods for Evidence-Based Medicine</td>
<td>Guyatt, Gordon, MD., Users’ Guides to the Medical Literature: Essentials of Evidence-Based Clinical Practice, Third Edition. 2014.</td>
<td>9780071590389</td>
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<td>PA 5554</td>
<td>Professional Enrichment</td>
<td>Guyatt, Gordon, MD., Users’ Guides to the Medical Literature: Essentials of Evidence-Based Clinical Practice, Third Edition. 2014.</td>
<td>9780071590389</td>
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<tr>
<td></td>
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<td>South-Paul, Jeannette E., CURRENT Diagnosis &amp; Treatment: Family Medicine, 5th Eds., McGraw-Hill. 2020</td>
<td>9781260134896</td>
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<tr>
<td>PA 5404 Family Medicine I</td>
<td>South-Paul, Jeannette E., CURRENT Diagnosis &amp; Treatment: Family Medicine, 5th Eds., McGraw-Hill. 2020</td>
<td>9781260134896</td>
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XII. Governance & Administration

Oklahoma State Regents for Higher Education
Chancellor: Glen D. Johnson
Chairman Gen. Toney Stricklin, Businessman, Lawton
Vice Chair John Massey, Banker, Durant
Secretary Ronald H. White, M.D., Cardiologist, Oklahoma City
Assistant Secretary Jay Helm, Real Estate, Tulsa
Ann Holloway, Investments, Ardmore
James D. "Jimmy" Harrel, Banker, Leedey
Andrew W. "Andy" Lester, Attorney, Edmond
Joseph L. Parker Jr., Business Owner, Tulsa
Mike C. Turpen, Attorney, Oklahoma City

Board of Regents for the Oklahoma Agricultural & Mechanical Colleges
Chairman: Joe D. Hall
At-Large Appointment: Calvin J. Anthony
At-Large Appointment: Rick Davis
First Congressional District: Dr. Trudy Milner
Second Congressional District: Tucker Link
Third Congressional District: Lou Watkins
Fourth Congressional District: Douglas E. Burns
Fifth Congressional District: Jarold Callahan
Pres. Of the State Board of Agriculture: Jim Reese

Advisory Council
Chairman: LeRoy E. Young, D.O., Oklahoma City
Timothy J. Moser, D.O., Midwest City
John G. Polkinghorne, DDS, Edmond
Dennis J. Carter, D.O., Poteau
Gabriel M. Pitman, D.O., Oklahoma City
George E. Erbacher, D.O., Tulsa
Executive Director: Lana Ivy, MBA, Oklahoma City

Administration
Kayse M. Shrum, D.O., President, Oklahoma State University and OSU System
Johnny R. Stephens, Pharm.D., Interim President, OSU Center for Health Sciences
Dennis E. Blankenship, D.O., Interim Dean, OSU College of Osteopathic Medicine

XIII. Center Personnel

Administration/Professional Staff
Johnny R. Stephens, Pharm.D., Interim President, OSU Center for Health Sciences
Dennis E. Blankenship, D.O., Interim Dean, OSU College of Osteopathic Medicine
William J. Pettit, D.O., M.A., Dean, OSU College of Osteopathic Medicine, Cherokee Nation and Associate Dean for Rural Health
Jeffrey S. Stroup, Pharm.D., R.Ph., Provost and Senior Vice President
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- Daniel E. Barta, Ph.D., Assistant Professor of Anatomy
- Ian Browne, Ph.D., Clinical Assistant Professor of Anatomy and Cell Biology
- Jasmine A. Crogan, M.Sc., Clinical Instructor of Anatomy and Cell Biology
- Paul M. Gignac, Ph.D., Associate Professor of Anatomy and Cell Biology
- Kenneth E. Miller, Ph.D., Professor of Anatomy and Cell Biology
- Haley O’Brien, Ph.D., Assistant Professor of Anatomy and Cell Biology
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- Eric D. Snively, Ph.D., Associate Professor of Anatomy
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- Anne I. Weil, Ph.D., Associate Professor of Anatomy and Cell Biology
- Nedra F. Wilson, Ph.D., Interim Chair of Anatomy and Cell Biology and Associate Professor of Cell Biology

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