OSU Center for Health Sciences
2019-2020 Catalog

1111 West 17th Street
Tulsa, Oklahoma 74107-1898
918-582-1972 or toll-free 800-677-1972
https://health.okstate.edu/com/index.html

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, 2019 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.

Contents

I. Academic Calendar for 2019-2020

- **Medical Students**
- **Biomedical Science Students Taking Shared Courses**

Medical Students

FALL 2019

June 24	Class of 2021 rotations begin (3rd/4th years see detailed schedule from Clinical Education)
July 29 - Aug 2	MS-I Required Orientation (see detailed schedule)
August 2	MS-II Required Orientation
Aug 3	White Coat Ceremony
Aug. 5	First Day of Class
Aug. 13	Last day for 100% refund on withdrawal
Aug. 19	Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
Sept. 2	Labor Day Holiday
Nov. 8	Last day to withdraw from all courses with automatic "W"
Nov. 28 – 29	Thanksgiving Holiday
Nov. 25	Last day to withdraw from all courses with assigned "W" or "F"
Dec. 6	Last day of class
Dec. 9 – 12	Finals
Dec. 16	Final grades due from faculty

SPRING 2020

Jan. 6	First Day of Class
Jan. 20	Martin Luther King holiday
Jan. 14	Last day for 100% refund on withdrawal
Jan. 21	Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
March 16 – 20	Spring Break
April 10	Last day to withdraw from all courses with automatic "W"
April 28	Last day to withdraw from all courses with assigned "W" or "F"
May 8	Last Day of Class
May 9	Graduation
May 11 – 14	Finals
May 18	Final grades due from faculty

Graduate Students
(Biomedical Science students taking shared medical school courses, please see medical school calendar)

FALL 2019

Aug. 16	Final enrollment date before late fees assessed
Aug. 19	First day of class (students taking Foundations courses, please see Medical Students Calendar)
Aug. 26	Nonrestrictive Drop/Add Deadline (100% refund)
Aug. 30	Restrictive Drop/Add Deadline (partial refund) Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
Sept. 2	Labor Day Holiday
Oct. 25	Students' Fall Break (students taking Foundations courses may have class meetings)
Nov. 1	Deadline to file Graduation Application for fall 2019 Graduation
Nov. 8	Last day to drop a course with grade of "W" Last day to withdraw from all courses with automatic "W"
Nov. 27 – 29	Thanksgiving Holiday
Nov. 22	Last day to withdraw from all courses with assigned "W" or "F"
Dec. 6	Last day of class
Dec. 9 – 13	Finals
Dec. 18	Grades due electronically from faculty (noon)

SPRING 2020

Jan. 10	Final enrollment date before late fees assessed
Jan. 13	First day of class (students taking Systems courses, please see Medical Students Calendar)
Jan. 20	Martin Luther King, Jr. Holiday
Jan. 21	Nonrestrictive Drop/Add Deadline (100% Refund)
Jan. 24	Restrictive Drop/Add Deadline (Partial Refund) Last day for 50% fees refunded on withdrawal (withdrawal noted on transcript)
March 16 – 20	Spring Break
April 1	Deadline to file Graduation Application
April 10	Last day to drop a course with grade of "W" Last day to withdraw from all courses with automatic "W"
April 24	Last day to withdraw from all courses with assigned "W" or "F"
May 1	Last day of class
May 4 – 8	Finals
May 9	CHS Commencement Ceremony
May 13	Grades due electronically from faculty (noon)

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 the 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, nine-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 Phoenix Building across from the main campus houses the Oklahoma Rural Health Policy and Research Center.

The new OSU College of Osteopathic Medicine at the Cherokee Nation will be an additional teaching site located in Tahlequah, Oklahoma. Current plans call for the enrollment of an inaugural class of 50 students starting in the fall of 2020. The new 84,000 square foot facility will include an anatomy laboratory, clinical skills and OMM labs, standardized patient labs and a simulation center that will feature state-of-the-art computer programmable manikins. There will also be 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 disciplined accordingly. 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.

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 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 Assistant Dean for Enrollment Management for potential disciplinary actions.

Vendors/Visitors
Vendors and visitors are required to obtain a guest ID by checking in at one of the two reception desks 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 campus has one of the best biomedical libraries in Oklahoma, consisting of more than 8,000 electronic journals, 4,600 electronic books, 4,000 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, COMUEST, TrueLearn COMBANK, Google Scholar, SciVal, Scopus, UpToDate, and VisualDx, among many others. See our website for a complete list of resources and services: health.okstate.edu/library/

Facilities
The Medical Library, located in the Felmlee building, provides eight, reservable, group study rooms with presentation computers and large TV monitors (seating for 84), 213 individual study carrels in the Medical Library and Tandy Academic Building, and a variety of open seating areas (seating for 27); seating for 298 in total. The library also contains a dedicated testing room 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

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

Print Books:	30 days
Course Reserve Materials:	3 hours
Models, Realia:	Same day
Bone Boxes:	3 days
Audiovisual:	7 days
Laptops:	7 days

Renewals
Renewals 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 jon.goodell@okstate.edu.

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

V. 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 to 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://health.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, 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
802 S. Jackson, Tulsa, OK 74127
918-584-5364 (Family Medicine) 918-584-5364 (Surgery) 918-582-7711 (Cardiology) 918-747-5322

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

OSU-North Regional Health & Wellness
5635 N. Martin Luther King Jr. Blvd.
Tulsa, OK 74126
918-732-4686 (Family Medicine)

Catholic Charities
2450 N. Harvard Ave.
Tulsa, OK 74115
918-949-4673 (Ob/Gyn)

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 completed:
    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 Applicant 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. 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. Applicants may obtain information through www.aamc.org.

        Association of American Medical Colleges
        Medical College Admission Test
        2450 N St., NW
        Washington, DC 20037
        Phone: 202-828-0690
        Email: mcat@aamc.org

3. All applicants are required to complete a Computer-Based Assessment for Sampling Personal Characteristics (CASPer) to assist with the selection process for the 2019-2020 Application Cycle. 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 trying to further enhance fairness and objectivity in its selection process.

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.

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.

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

1) 3+1 Program
The Rural and Underserved Primary Care 3+1 Program seeks to admit students who desire to become primary care physicians in rural and underserved Oklahoma. The program allows students to complete their pre-doctoral training in seven years. The 3+1 Program provides an academic plan for students to complete at the following universities: Oklahoma State University College of Arts and Sciences, Oklahoma State University College of Agricultural Sciences and Natural Resources, Cameron University, East Central University, Northeastern 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 rural medical track to graduate with a Doctor of Osteopathic Medicine (D.O.) degree. For more information on the 3+1 Program, please visit our website: https://health.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 College of Human Sciences, Oklahoma State University Honors College, Cameron University, Oral Roberts University, Southeastern Oklahoma State University, Southwestern Oklahoma State University, University of Central Oklahoma, and the Master of Education in Education Program for Biomedical Science & Microbiology at Southwestern Oklahoma State University. 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://health.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 but with lower metrics. Students are recommended to the Guaranteed Admission Program based on information obtained through the OSUCOM 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 this 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:

- 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 alternative admission to students who have high-potential to succeed in the medical education program but with lower metrics who 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. For this program, students must indicate eligibility in one or more of the following ways: 1) economic disadvantage 2) environmental/educational disadvantage, 3) underrepresented minority in medicine, or 4) pursuing medicine as a second career with an interest in practicing primary care medicine in rural or underserved Oklahoma. Guidelines to consider in determining disadvantaged background status include the definition from the U.S. Department of Health and Human Services found at: https://nhsc.hrsa.gov/loanrepayment/dab.pdf and income guidelines found at https://aspe.hhs.gov/poverty-guidelines. Priority will be given to Oklahoma residents.

Requirements
Applicants admitted 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.

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 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/loanrepayment/dab.pdf. Factors to consider include coming from a family with an annual income <200% of the Federal Poverty level. (See guidelines at: https://aspe.hhs.gov/poverty-guidelines.) 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/loanrepayment/dab.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
   - Being from a family which 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;
- Results of MCAT;
- Personal motivation for a career in osteopathic medicine;
- Life experience/past career experience; and
- Data obtained during the on-campus interview and interactions.

Academic Requirements during the Bridge Year

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

- 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 including Pathology/Histology; 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.

Transfer Applicants/ Admission with Advanced Standing

Applicants from other medical schools accredited by the American Osteopathic Association may be admitted to advanced standing at the beginning of the third year, provided that vacancies exist. OSU-COM does not consider transfer of students from LCME-only accredited programs. To be considered for admission with advanced standing, students must meet the College's general requirements for admission and submit documents required of applicants to the freshman class. Students from other colleges of osteopathic medicine admitted with advanced standing to OSU-COM must complete their last two years of instruction at OSU-COM.

A transfer applicant 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.

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; and
3. A letter from the Dean of the applicant's medical school indicating the circumstances of the proposed withdrawal and that the student was in good standing at that time.

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.

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://health.okstate.edu/com/admissions/technical-standards.html.

G. 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 on-line 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 AACOMAS:
    a. A fully completed AACOMAS application, including the AACOMAS processing fee. Online application available at http://www.aacom.org.
    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 Admission 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 no fewer than three faculty members, two of whom teach sciences. 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 in addition to two letters from licensed physicians.
    d. A written evaluation from a licensed physician sent directly to the College or by using Liaison, Interfolio, or Virtual Eval.

The deadline to submit AACOMAS applications for 2019 – 2020 admission is February 28, 2020. The deadline to submit supplemental applications for admission is March 30, 2020. Applicants are encouraged to submit materials early for full consideration. Interviews are conducted approximately September – 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, 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 Enrollment 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 Student Affairs 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 AACOMAS (refer to AACOM website/AACOMAS application for a current listing: https://help.liaisonedu.com/AACOMAS_Applicant_Help_Center/Sending_Your_Official_Transcripts_and_Test_Scores_to_AACOMAS/Sending_Official_Transcripts_to_AACOMAS/2_Foreign_and_French-Canadian_Transcripts). Applicants should request that an official copy of the evaluation report be sent directly to AACOMAS 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. Foreign evaluation services listed by AACOMAS as of July 1, 2019 are as follows:

World Education Services (WES)
P.O. Box 5087
New York, NY 10274-5087
Telephone: 212.966.6311
www.wes.org

Educational Credential Evaluators, Inc. (ECE)
P.O. Box 514070
Milwaukee, WI 53203-3470
Telephone: 414.289.3400
www.ece.org

Josef Silny & Associates, Inc.
7101 SW 102 Avenue
Miami, FL 33173
Telephone: 305.273.1616
www.jsilny.com

International Education Research Foundation, Inc. (IERF)
P.O. Box 3665
Culver City, CA 90231-3665
Telephone: 310.258.9451
www.ierf.org

Educational Perspectives, nfp
P.O. Box A3462
Chicago, IL 60690-3462

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.

H. 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 prior to 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 Affairs and/or the OSU Medical Clinic.

I. 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/Bridge 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 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 titers 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://health.okstate.edu/site-files/docs/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. Bridge students will have books and supplies expenses of $2,000 during their Bridge year and $2,000 during their first year.

Student Fee Refund Policy
The refund policy for fees and tuition (except for Title IV recipients who are first-time attendees) is governed by the Academic Calendar. Please see Section I, Academic Calendar, for refund dates and amounts.

Fees are applicable only for the current semester. If a student withdraws and is entitled to a refund, the amount of a refund cannot be carried forward as a credit to a subsequent session.

J. Student Health and Behavioral Health Services

Student Health
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.

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 http://centernet.okstate.edu/behavioralhealth.php.

Guidance Resources
Guidance Resources provides around the clock behavioral health services to all students at OSU-CHS. Students can call toll-free at 866-519-8354 on a 24 hours per day/7 days per week basis to discuss their concerns with professionals with Masters degrees in counseling, social work, or other related behavioral areas. Counselors are available to provide “in-the-moment” support, and they can guide you to the appropriate services you require. Referrals for face-to-face counseling by state-licensed clinicians can be provided, and up to 10 free counseling sessions can be arranged with a local provider. Telephone counseling is also available by appointment. The Guidance Resources counselor will ask whether you prefer face-to-face counseling or phone counseling at the time the referral is made. Students can also initiate contact between 8:00 a.m. to 6:00 p.m. Central time with an intake clinician via on online chat feature, accessed at guidanceresources.com. Communication is offered in multiple languages and for hearing impaired individuals

Guidance Resources has a network of more than 50,000 providers to support OSU students wherever they live, study, or travel. Guidance Resource’s network includes only credentialed, state-licensed clinicians with expertise in areas such as adolescents and children, anxiety disorders and depression, domestic violence, marriage and families, stress management, and substance use. Guidance Resources also has information available online on a range of topics (e.g., relationships, wellness, lifestyle, financial, etc.).

To access for the first time, go to www.guidanceresources.com, click the link for REGISTER, enter OKSTATESAP as your Web ID, and then create your user ID and password.

OSU-Tulsa Counseling Clinic
The OSU-Tulsa Counseling Clinic 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 Clinic is located on the OSU-Tulsa campus at 700 N. Greenwood in Main Hall room 2419.

Call SAM
Call SAM (Student Assistance by Mercy) has licensed counselors available 24 hours a day, seven days a week to respond to crises, and provide referrals and consultations. Call SAM can be reached at 855-225-2SAM (2726).

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://health.okstate.edu/centernet/behavioral-health.html. One of these services is Community Outreach Psychiatric Emergency Services (COPES), a part of Family and Children's Services. COPES provides mobile crisis assistance, including on-site intervention, stabilization, and connection to other community services. COPES services are free, confidential, and available 24/7 to anyone in Tulsa County. COPES can be reached at 918-744-4800.

K. Financial Aid

Campus Address and Phone
Oklahoma State University Center for Health Sciences
Office of Financial Aid
1111 West 17th Street
Tulsa, OK 74107-1898
918-561-8278
918-561-1228
Website: https://health.okstate.edu/com/financial-aid/index.html

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. 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) as soon after January 1 as possible.

Students can apply for assistance by submitting the FAFSA electronically at www.fafsa.ed.gov.

The following is a list of federal aid programs available at OSUCHS:

- 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://health.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://health.okstate.edu/site-files/docs/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://health.okstate.edu/site-files/docs/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://health.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, (example: 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 applies for 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.

L. 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 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.

M. 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://health.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 class preparations, class attendance and participation, examination scores, and personal and professional conduct.

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

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: One for students completing their medical school curriculum within the traditional 4 years (including D.O./M.B.A. students) and a second one including students completing their medical school curriculum in more than 4 years. Class rank will be released on an “as needed” basis when students begin applying for post-doctoral internship or residency programs or for award/scholarship, honor society, or other institutional reporting purpose. Students must provide supporting documents (scholarship applications, etc.) to request a special release of rank. 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 is designed to assist students in meeting the academic and professional requirements for satisfactory progress in the standard curriculum. See the Student Handbook for more information.

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 Senior Associate Dean for Academic Affairs 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. 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 Senior Associate Dean for Academic Affairs or his/her designee.

A student placed on academic probation will be notified in writing by the Senior Associate Dean for Academic Affairs 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 Senior Associate Dean for Academic Affairs 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 Senior Associate Dean for Academic Affairs. 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 calendar 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 Senior Associate Dean for Academic Affairs. 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);
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 Senior Associate Dean for Academic Affairs 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 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 Student Affairs 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, medical problems, family crisis, etc.

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 will continue as soon as the approved leave of absence ends. 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.

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 Student Affairs) to the Assistant Dean for Enrollment Management that includes the reason(s) in sufficient detail for the requested leave of absence. Students who have completed the preclinical years must submit a Rotation Report from Clinical Education with their request. 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 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 Associate Dean of Academic Affairs, the Senior 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 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, the Senior Associate Dean of Academic Affairs, and the student. 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.

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 have taken and passed his or her COMLEX Level 1 examination and verified 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 Student Affairs) to the Assistant Dean for Enrollment Management that includes the reason(s) in sufficient detail for the requested withdrawal. 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 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 Associate Dean of Academic Affairs, the Senior 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 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.

Suspension
Suspension is a forced absence from the College. It is a temporary situation imposed by the Senior Associate Dean for Academic Affairs 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 University assumes that failure on the part of any student to specifically request the withholding of directory information indicates individual approval for disclosure.

> Definition: "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 which 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://health.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.

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. Other student organizations are:

- American College of Osteopathic Emergency Physicians (ACOEP)
- American College of Osteopathic Family Physicians (ACOFP)
- American College of Osteopathic Pediatricians (ACOP)
- American Medical Student Association (AMSA)
- American Medical Women's Association (AMWA)
- American Osteopathic College of Physical Medicine & Rehabilitation (AOCPMR)
- Anesthesiology Student Interest Group (ASIG)
- Association of Native American Medical Students (ANAMS)
- Biomedical Science Graduate Student Association (BSGSA)
- Business & Leadership in Medical Practice (BLiMP)
- Christian Medical Association (CMA)
- Forensic Science Organization (FSO)
- Gay & Lesbian Advocacy in Medicine (GLAM)
- Global Medicine Club (GMC)
- Health Care Administration Student Association (HCASA)
- Health Innovation, Technology, and Entrepreneurship Club (HITEC)
- Oklahoma Osteopathic Obstetrics and Gynecology Student Association (OOOGSA)
- Pathology & Laboratory Medicine (PLM)
- Sigma Sigma Phi (SSP) – honor society
- Student American Academy of Osteopathy (SAAO)
- Student American Osteopathic Academy of Orthopedics (SAOAO)
- Student American Osteopathic Academy for Sports Medicine (SAOASM)
- Student Association Auxiliary (SAA)
- Student Association of Military Osteopathic Physicians & Surgeons (SAMOPS)
- Student Government Association (SGA)
- Student Interest Group in Neurology (SIGN)
- Student National Medical Association (SNMA)

- Student Osteopathic Association of Radiology (SOAR)
- Student Osteopathic Internal Medicine Association (SOIMA)
- Student Osteopathic Medical Association (SOMA)
- Student Osteopathic Psychiatry Association (SOPA)
- Student Osteopathic Research Association (SORA)
- Student Osteopathic Rural Medicine Club (STORM)
- Student Osteopathic Surgical Association (SOSA)
- Student Political Action Committee (SPAC)
- Wilderness Medical Society (WMS)

Student Sponsored Programs
The 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.)

N. 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 Student Handbook: https://health.okstate.edu/site-files/docs/com/student-handbook.pdf.

O. 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 Affairs 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 Affairs is available for consultation and guidance. Complaint forms are found in the Office of Student Affairs. All complaints will be monitored and reviewed by the Office of Student Affairs 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://health.okstate.edu/site-files/docs/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://health.okstate.edu/hr/1is2many/index.html or contact the Office of Student Conduct, Title IX Coordinator, OSU-CHS, Room 112, 918-561-1950.

Discrimination: see Student Grievance Policy and Procedures for Alleged Discrimination, found below and in the Student Handbook at https://health.okstate.edu/site-files/docs/com/student-handbook.pdf.

Non-Compliance with AOA Accreditation Standards: see Non-compliance with AOA Accreditation Standards Policy, found below and in the Student Handbook at https://health.okstate.edu/site-files/docs/com/student-handbook.pdf.

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 Affairs; this action will register the complaint both with the Office of Educational Development and the Office of Student Affairs 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 Affairs.
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. 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 Affairs.
7. A notification report of all complaints will be forwarded on a regular basis by the Office of Student Affairs 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 Affairs is 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 Affairs 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://health.okstate.edu/site-files/docs/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://health.okstate.edu/hr/1is2many/index.html or contact the Office of Student Conduct, Title IX Coordinator, OSU-CHS, Room 112, 918-561-1950.

Discrimination: see Student Grievance Policy and Procedures for Alleged Discrimination, found below and in the Student Handbook, at https://health.okstate.edu/site-files/docs/com/student-handbook.pdf.

Non-Compliance with AOA Accreditation Standards: see Non-compliance with AOA Accreditation Standards Policy, found below and in the Student Handbook at: https://health.okstate.edu/site-files/docs/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 Affairs. Complaints should be filed within 30 calendar days of the incident prompting the complaint.
3. Upon receipt of the complaint, the Office of Student Affairs 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 Affairs 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 Affairs will be responsible for notifying all parties. Final documentation on the resolution of the complaint will be maintained by the Office of Student Affairs.
7. A notification report of all complaints will be forwarded on a regular basis by the Office of Student Affairs 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 Associate Dean for Enrollment Management.
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.
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. 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 Affairs.
2. Student Affairs 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 Associate Dean, Student Affairs 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 Affairs.
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://health.okstate.edu/centernet/com-feedback.html. Feedback will be addressed according to the policies and procedures described.

P. Educational Program

Academic Programs

The curriculum at the OSU College of Osteopathic Medicine places significant focus 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. Both a traditional track and a rural medical track (RMT) 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 systematically prepares 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 hospital, 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 two months 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 both the traditional track and rural medical track graduate from the four-year program with the Doctor of Osteopathic Medicine (DO) degree. Although a majority 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://health.okstate.edu/com/admissions/graduates.html.

Rural Medical Track
In addition to the traditional program, 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 Medical Club (StORM). The club also provides students with service opportunities and an advocacy platform to pursue rural health policy initiatives.

Career Development
The Career Development Specialist in the Office of Student 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 Student Success holds various workshops throughout the year to demonstrate how to create a Curriculum Vita (CV) and personal statement, apply for residencies, and network 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 American Osteopathic Association (AOA) and National Resident Matching Program (NRMP) accredited internships and residencies is available through the Office of Student 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://health.okstate.edu/com/student-life/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.

Q. 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

On Campus Assessments	**Years 1 and 2**		
Type of Assessment	**Description**	**Curricular Objectives***	**AOA Competencies****
Course Assessments	Multiple - choice exams, lab exams, case studies, professional communications, team projects, and reflective writing	1, 2	1, 2, 4, 7
	Small Group Activities - problem based learning sessions, laboratory exercises, team-based learning activities, oral presentations, etc.	1, 2, 3, 4	1, 2, 4
	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	1, 2, 3, 4, 5	1, 2, 3, 4, 5
	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	1, 2, 3, 4, 5	2, 3, 4, 5
	Practical Examinations - Hands on, one-on-one observation of general approach	1, 2, 3, 4, 5	1, 2, 3, 4, 5
	Clinical Exams using standardized patients for focused encounters as well as comprehensive history and physical exam assessing specific competency skills	1, 2, 3, 4, 5	1, 2, 3, 4, 5
	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	1, 2, 3, 4, 5, 10	1, 2, 3, 4, 5
COMSAE Kaplan Exam	COMLEX-style self-evaluation instrument	1, 2, 3, 4 Prior to COMLEX-USA Level 1	1, 2, 3, 6, 7
COMLEX-USA Level 1	Computerized one-day exam covering basic sciences and osteopathic principles in clinical contexts	Before entry into third year	1, 2, 3, 6, 7

Table 2: Years 3 and 4 Assessment

Clinical Rotation Assessments	**Years 3 and 4 (Please refer to the online Clinical Rotations Student Manual for details)**		
Type of Assessment	**Description**	**Curricular Objectives***	**AOA Competencies**
Clerkship Specific Assessments	End of Clerkship Examinations	1-10	1, 2, 3, 6, 7
Clinical Evaluations	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.	1-10	1, 2, 3, 4, 5, 6, 7
Case Presentation	Report based on a clinical case encounter. An evaluation of the Case Presentation is conducted by a Physician and the Regional Coordinator.	1, 2, 3, 4, 5	1, 2, 3, 4, 5, 6, 7
Case Logs (Skills Card)	Completed by students and approved by preceptors at the end of each of the following rotations: Community Clinic, Rural Clinic, Community Hospital, and Emergency Medicine.	1-10	1, 2
Phase II COMSAE Exam	Standardized exam from NBOME	1-10	1, 2, 3, 5, 6, 7
Additional Assessments	Book club, Personal Statement Workshop, Telehealth Workshop, & Video Lecture Evaluations	1-10	1, 2, 7
NBOME COMAT Exams	Standardized exam from NBOME taken by all students	1-10	1, 2, 3, 6, 7
COMLEX-USA Level 2 - CE	One-day computerized exam	1-10	1, 2, 3, 6, 7
COMLEX-USA Level 2 - PE	Standardized patient (CPX) exams	1-10	1, 2, 3, 4, 5
Didactic Weeks	Didactic weeks include observed simulations	1-10	1, 2, 3, 4, 5
Transition Week	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.	Week before third year rotations start	1, 2, 3, 4, 5
CPX Exams	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.	1-10	1, 2, 3, 4, 5
Observed SP encounters	Students practice advanced interviewing skills with a standardized patient on their behavioral health/psychiatry rotation. Instruction & peer feedback given.	1-10	1, 2, 3, 4, 5

Four-Year Professional Curriculum for Academic Year 2019 – 2020

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

Fall Semester Hours

CLME 8312	Osteopathic Manual Medicine I *(2)*
PCME 8115	Clinical Anatomy *(5)*
PCME 8743	Foundations in Medical Genetics, Molecular Biology and Developmental Anatomy *(3)*
PCME 8752	Foundations in Medical Cell and Tissue Biology *(2)*
PCME 8762	Foundations in Medical Biochemistry (2)
PCME 8771	Foundations in Medical Pharmacology *(1)*
PCME 8914	Medical Science Foundations *(4)*

Spring Semester Hours

CLME 8322	Osteopathic Manual Medicine II *(2)*
CLME 8821	Focus Course in Geriatrics *(1)*
CLME 8914	Clinical Care Foundations I (4)
CLME 8941	Service Learning & Community Engagement I *(1)*
PCME 8703	Foundations in Medical Microbiology *(3)*
PCME 8781	Foundations in Medical Immunology *(1)*
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 8332	Osteopathic Manual Medicine III *(2)*
CLME 8831	Focus Course in Health Behavior Change (1)
CLME 8861	Focus Course in Rural Health *(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 8342	Osteopathic Manual Medicine IV *(2)*
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)*
PCME 8843	Musculoskeletal/Skin/Connective System *(3)*
PCME 8863	Reproductive System *(3)*
PCME 8903	Endocrine System *(3)*
PCME 8982	Integrative 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)*
CLME 8121	American Sign Language (1)

CLME 8122 Early Research Experience *(2)*
CLME 8243 Human Nutrition *(3)*
CLME 8311 iM3ED I (1)
CLME 8321 iM3ED II (1)
CLME 8331 iM3ED III (1)
CLME 8341 iM3ED IV (1)

Four-Year Professional Curriculum for Academic Year 2019 – 2020: Classes of 2020, 2021, 2022, and 2023

Third and Fourth Year – MS-III and MS-IV – Traditional 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 I (Required)
CLME 9225 Community Hospital II (Required)
CLME 9235 Health Care Clinic (Required)
CLME 9255 Emergency Medicine (Required)

Required Elective Courses

CLME 9265 Elective V
CLME 9275 Elective VI (May be used as optional 2nd vacation)
CLME 9375 Elective VII
CLME 9815 Elective I - Primary Care
CLME 9825 Elective II - Primary Care
CLME 9855 Elective I
CLME 9865 Elective II
CLME 9875 Elective III
CLME 9885 Elective IV

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

CLME 9355 Fall Global Health Selective *(Required for Global Health Track)*
CLME 9365 Business of Medicine
CLME 9455 Winter Global Health Selective *(Required for Global Health Track)*

Required Didactic Week Courses

CLME 9211 Didactic Week I-Transition Week
CLME 9221 Didactic Week II
CLME 9231 Didactic Week III
CLME 9241 Didactic Week IV

Required Vacations

4-Week Vacation – Scheduled during an open 4-week block

Third and Fourth Year – MS-III & MS-IV – Rural Medical Track Curriculum

Rural Medical Track Required Courses

CLME 9110 Internal Medicine (Core) (8-Week Course)
CLME 9145 Rural Clinic (Required)
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 I

CLME 9225 Community Hospital II
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 9325 Selective II
CLME 9335 Selective III
CLME 9805 Selective I

RMT Required Didactic Week Courses

CLME 9211 Didactic Week I-Transition Week
CLME 9221 Didactic Week II
CLME 9231 Didactic Week III
CLME 9241 Didactic Week IV

RMT – 12 Weeks Required from the Following (Choose 3)

CLME 9315 Four-Week Sub Internship III
CLME 9835 Four-Week Selective IV
CLME 9855 Four-Week Elective I
CLME 9865 Four-Week Elective II
CLME 9875 Four-Week Elective III (May be used as optional 2nd vacation)

RMT Required Vacations

4-Week Vacation – Scheduled during an open 4-week block

Prior matriculants refer to previous catalogs.

R. Course Descriptions

First Year – MS-I

CLME 8312 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 8322 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 8801 Focus Course in Lab Medicine
The Laboratory Medicine Focus Course will introduce students to the application and interpretation of laboratory tests in clinical medicine. The course is intended to provide a basic foundation for mastering the complex physiologic, pathologic, clinical, diagnostic, and therapeutic concepts taught in subsequent Systems courses. The course will focus on the practical relevance of laboratory medicine concepts and will introduce the aspects of laboratory medicine used most commonly in a broad range of clinical settings with the understanding that students will generalize and apply these concepts in the subsequent Systems courses.

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 8115 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, bioenergenetics, 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 8332 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 8342 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 8831 Focus Course: Health Behavior Change
The Health Behavior Change focus course will introduce students to concepts and skills that assist patients in making and maintaining health-related behavioral changes. The course will focus on 1) factors which promote/impede treatment adherence, 2) evidence-based theories on health-behavior change, 3) motivational interviewing techniques, 4) behavioral counseling skills for health behavior change, and 5) relapse prevention skills. Strategies for addressing tobacco cessation, substance use, medication and treatment adherence, dietary changes, and physical activity will be presented; students will engage in case discussions and have an opportunity to develop health behavior change interventions for use in the primary care setting.

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 8922 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 Health
The Rural Health Focus Course provides the opportunity for medical students to explore a variety of timely healthcare topics through the perspective of rural health leaders, researchers, and policymakers. This course seeks to identify rural health concerns, dispel some of the myths that surround medical care in a rural setting, and discuss topics and public policy that are unique to rural medical care, further preparing students to engage as future physician leaders in their rural state and community.

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 Integrative Systems Review
This course is designed to assist the MS-II student in strengthening their knowledge base over the various physiologic systems and to integrate this knowledge to provide the best possible foundation to continue on in 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 8122 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.

CLME 8311 iM3ED I
Students in iM3ED I will be introduced to multiple concepts that do not fit the typical medical curriculum. This will begin with a brainstorming technique called design thinking popularized by the Stanford School of Design and IDEO. Students will apply this method throughout the semester to solve multiple issues in healthcare. Concepts in architecture, 3D printing, and healthcare app development will be introduced by experts in the field and applied by students in lab. Various brainstorming activities will be assigned during the semester to help students expand their problem-solving skills.

CLME 8321 iM3ED II
Students in iM3ED II will be exposed to the concepts and theories of Needfinding. They will apply these observational skills in the clinical arenas of Emergency Medicine, Intensive Care Medicine and others before entering a brainstorming phase of design thinking. This will allow them to apply the lessons learned in iM3ED I prior to being introduced to rapid prototyping concepts. iM3ED will partner with FabLab during an 8-week program to learn basic skills in engineering and design to prototype a solution to problems they encountered during their observation (Needfinding) experience. They will complete the semester by being introduced to the "art of the pitch" by experienced entrepreneurs and have an opportunity to pitch to real investors.

CLME 8331 iM3ED III
Students in iM3ED III will focus on the business of healthcare in multiple facets. Guest lecturers from the OSU Spears School of Business as well as local experts will provide lecture, small group sessions and lab to help students better understand business concepts in healthcare. There will be a focus on innovation and entrepreneurship in these lessons as well as how to fund a healthcare start-up. Time outside of class will be minimal in order to allow students to prepare for COMLEX Step I.

CLME 8341 iM3ED IV
Students in iM3ED IV have completed I-III and are in clinical rotations. There will be meetings when students are already expected to be on campus but no other organized events. Students will work on a Capstone project of their choosing during these two years with an expected completion prior to graduation. They will direct the content but it should be based on skills and concepts learned during courses I-III. Students must complete all courses and Capstone to receive certificate of completion on graduation.

PCME 8693 Principle Concepts of Cellular and Molecular Immunology
The focus of the course is to introduce the basic concepts of immunology with cellular and molecular components that play a role in normal and disease states. The mechanisms associated with protection against pathogens, development of allergies (hypersensitivities), autoimmunity, immunodeficiency diseases, graft rejection, and the role of the immune system in cancer.

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 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 I (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 9225 Community Hospital II (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 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 outside of the Tulsa or Oklahoma City area and is coordinated through the OSU Regional Coordinators.

CLME 9265, 9275, 9375, 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 situation 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 9355 Fall Global Health Selective

CLME 9455 Winter Global Health Selective

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 9815 and 9825 Primary Care Electives
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
- General Pediatrics
- Obstetrics/Gynecology
- Emergency Medicine
- Psychiatry

Each student may request to utilize his or her Primary Care Elective rotations in a medical situation of their choosing, providing the rotation request fulfills guideline criteria.

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 9285 and 9295 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, 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.

S. 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 (health.okstate.edu/library). This list may be updated throughout the year. Please check Leo for the most current list of required and recommended textbooks.

Course	Textbook Title	ISBN	Retail Price
MS-1 Year			
Fall Semester			
CLME 8312 Osteopathic Manual Medicine I	The Difference a D.O. Makes, 1st Ed. Jones, Bob. Oklahoma Education Foundation for Osteopathic Medicine, OKC. 1978.	n/a OCLC Number: 48503237	$70
	Muscle Energy Manual, 2nd Ed. Graham, Ken. OSU-COM. 2010.	To be determined	To be determined
	Atlas of Osteopathic Techniques, 2nd or 3rd Ed. Nicholas & Nicholas. 2016.	9781451193411 1451193416	$129
	Glossary of Osteopathic Terminology, 3rd Ed. Giusti, R. American Osteopathic Association. 2011.	To be determined	$10
PCME 8115 Clinical Anatomy	Clinically Oriented Anatomy, 7th Ed. K. L. Moore, A. Dalley, and A. Agur. Lippincott Williams & Wilkins. 2013.	9781496354044 1496354044	$74
	Board Review Series: Gross Anatomy, 8th Ed. K.W. Chung, H.M Chung, and N.L. Halliday. Wolters Kluwer / Lippincott Williams & Wilkins. 2014.	9781451193077 1451193076	$26
	Grant's Dissector, 16th Ed. P.W. Tank. Wolters Kluwer / Lippincott Williams & Wilkins. 2016.	9781451175660 1451175663	$35
	Grant's Atlas of Anatomy, 13th Ed. Agur, A. and Dalley, A. Lippincott Williams & Wilkins. 2012.	To be determined OCLC Number: 944903917	$65
PCME 8743 Foundations in Genetics, Molecular Biology, and	Thompson & Thompson Genetics in Medicine, 8th Ed. Nussbaum, R.L, McInnes, R.R., and Willard, H.F., Elsevier. 2015.	To be determined OCLC Number:	$51

Developmental Anatomy		908336124	
	Molecular Biology: Principles and Practice, 2nd Ed. Cox, M.M., Doudna, J., O'Donnell, M. Macmillan, 2015.	9781319154134 1319154131	$84
	Langman's Medical Embryology, 13th Ed. Sadler, T. Wolters Kluwer. 2015.	9781496383907 1496383907	$76
PCME 8752 Foundations in Medical Cell and Tissue Biology	Histology, A Text and Atlas, 7th Ed. Ross and Pawlina. LWW. 2015. Ebook.	1-4511-8742-4	$55
	Robbins and Cotran Pathologic Basis of Disease, 9th Ed. Kumar, Abbas, and Aster. Elsevier Saunders. 2015. Ebook.	978-1-4557-2613-4	$97
	Referenced Textbook: Physiology, 6th Ed. Costanzo. Elsevier. 2018. Ebook.	978-0-323-47881-6	$42
	Referenced Textbook: Molecular Biology of the Cell, 6th Ed. Alberts, et. al. Garland Science. 2015.	9780815344322 9780815344643	$114
PCME 8762 Foundations in Medical Biochemistry	Harper's Illustrated Biochemistry, 30th Ed., Lange Series. McGraw-Hill Medical, 2015.	9780071825344 0071825347	$86
	First Aid for the USMLE Step 1, 2018 Ed. McGraw-Hill Medical. 2015.	9781260116120 1260116123	$43
PCME 8771 Foundations in Medical Pharmacology	Pharmacology, 5th Ed. Brenner and Stevens. Elsevier/Saunders. Elsevier. 2018.	978-0-323-39166-5	$63
	Goodman & Gilman's The Pharmacological Basis of Therapeutics, 13th Ed. Brunton, et. al. 2018.	978-1-25-958473-2	$96
PCME 8781 Foundations in Medical Immunology	Medical Microbiology, 8th Ed. Murray, P.R., Rosenthal, K.S. and Pfaller, M.A. Elsevier Saunders, Philadelphia, PA. 2016.	978-0-323-29956-5	$76
	Sherris Medical Microbiology, 7th Ed. Kenneth Ryan, McGraw Hill Education. 2018.	978-1-259-85980-9	$95
	Schaechter's Mechanisms of Microbial Disease, 5th Ed. Engleberg, Dermody, & DiRita, LWW, Philadelphia, PA. 2012.	978-0-7817-8744-4	$54
	Kaplan COMLEX-USA Level 1 Lecture Notes, Immunology and Microbiology. Alley, Keller and Moscatello, Kaplan. New York. 2018.	n/a	$15
PCME 8914 Medical Science Foundations	Physiology, 5th Ed.. Costanzo, L. Saunders Company, 2014.	978-141-606-21654	$64
Spring Semester			
CLME 8322 Osteopathic Manual Medicine II	Muscle Energy Manual, 2nd Ed. Graham, Ken. OSU-COM. 2010.	Available in OSU Bookstore	To be determined
	Atlas of Osteopathic Techniques, 3rd Ed. Nicholas & Nicholas. 2016.	9781451193411	$129
CLME 8914 Clinical Care Foundations I	Bates' Guide to Physical Examination and History Taking, 12th Ed. Lippincott, et. al. 2017.	978-146-989-3419	$79
	Clinician's Pocket Reference, 11th Ed. Appleton and Lang. 2007.	978-0-07-145428-5	$125
PCME 8814 Cardiovascular System	Physiology, 6th Ed.. Costanzo, L. Saunders Company, 2014.	978-0-323-47881-6	$64
	Robbins and Cotran Pathological Basis of Disease, 9th Ed.	978-1-4557-2613-4	$97
	Pharmacology, 5th Ed. Brenner and Stevens. Elsevier/Saunders. Elsevier. 2013.	978-0-323-39166-5	$63

	Ganong's Review of Medical Physiology, 24th Ed. Barrett, K., et. al. McGraw-Hill Medical.	978-0-07-178003-2	$53
	Rapid Review Pathology, 4th Ed. Revised Reprint. Goljan, Ed. 2013.	978-0-323-08950-0	
PCME 8833 Hematology System	Robbins and Cotran Pathological Basis of Disease, 9th Ed.	9781455726134 1455726133	$97
PCME 8853 Genitourinary System	Pharmacology, 5th Ed. Brenner and Stevens. Elsevier/Saunders. Elsevier. 2018.	978-0-323-39166-5	$63
	Physiology, 5th Ed.. Costanzo, L. Saunders Company, 2014	978-141-606-21654	$64
	Robbins and Cotran Pathological Basis of Disease, 9th Ed.	9781455726134 1455726133	$97
	Histology, A Text and Atlas, 7th Ed. Ross, M.H. and Pawlina, W. LWW. 2015.	9781451187427 1451187424	$55
PCME 8873 Respiratory System	Robbins and Cotran Pathological Basis of Disease, 9th Ed. Elsevier Saunders. 2015.	9781455726134 1455726133	$97
	Histology, A Text and Atlas, 7th Ed. Ross, M.H. and Pawlina, W. LWW. 2015.	9781451187427 1451187424	$55
MS-2 Year			
Fall Semester			
CLME 8332 Osteopathic Manual Medicine III	Foundations of Osteopathic Medicine, 3rd Ed. Chila, A. Lippincott, Williams & Wilkins. 2012.	9781609137564 1609137566	$71
	Glossary of Osteopathic Terminology, 3rd Ed. Giusti, R. American Osteopathic Association. 2011.	To be determined	$10
	Atlas of Osteopathic Techniques, 2nd or 3rd Ed. Nicholas & Nicholas. 2016.	9781451102451 1451102453 9781451193411 1451193416	$66 $129
CLME 8924 Clinical Care Foundations II	Bates' Guide to Physical Examination and History Taking, 11th Ed. Bickley, L. Lippincott, Williams & Wilkins. 2014.	9781451175646 1451175647	$25
	The 5-Minute Clinical Consult 2017. 25th Ed. Domino, F., et. al. Wolters Kluwer. 2017.	1496339967 9781496339966	$96
	Clinician's Pocket Reference, 11th Ed. Gomella, LG. Appleton and Lang. 2007.	0071260951 9780071260954	$125
PCME 8823 Gastrointestinal/Hepatic System	Pharmacology, 4th Ed. Brenner and Stevens. Elsevier/Saunders. 2013	9781455702824 145570282X	$57
	Physiology, 5th Ed.. Costanzo, L. Saunders Company, 2014	978-141-606-21654	$64
	Robbins and Cotran Pathological Basis of Disease, 9th Ed. Elsevier Saunders. 2015.	9781455726134 1455726133	$97
	Histology, A Text and Atlas. 7th Ed. Ross, M.H. and W. Pawlina. Wolters Kluwer/Lippincott Williams & Wilkins Health. 2015.	9781451187427 1451187424	$55
	Medical Microbiology, 8th Ed. Murray, P.R., K.S. Rosenthal, and M.A. Pfaller. Saunders/Elsevier. 2016.	9780323299565 0323299563	$55
PCME 8883 Psychiatry System	The American Psychiatric Publishing Textbook of Psychiatry, Sixth Ed. Hales, R. et. al. American Psychiatric Publ. 2014.	978-1-58562-444-7	$190
	Pharmacology, 5th Ed. Brenner and Stevens. Elsevier/Saunders. 2018.	978-0-323-39166-5	$63
PCME 8916 Nervous System	Grant's Dissector, 16th Ed. P.W. Tank. Wolters Kluwer / Lippincott Williams & Wilkins. 2016.	9781451175660 1451175663	$35
	Medical Microbiology, 8th Ed. Murray, P., et. al. Saunders/Elsevier. 2016.	9780323299565 0323299563	$55

	Neuroanatomy. Fix, J., et. al. Wolters Kluwer/Lippincott Williams & Wilkins. 2015.	9780781772457 0781772451	$24
	Neuroanatomy through Clinical Cases, 2nd Ed. Blumenfeld, H. Sinauer. 2010.	9780878930586 0878930582	$128
	Neuroanatomy in Clinical Context: An Atlas of Structures, Sections, Systems, and Syndromes, 9th Ed. Haines, D. Wolters Kluwer Health. 2015.	9781451186253 1451186258	$57
Spring Semester			
CLME 8342 Osteopathic Manual Medicine IV	Atlas of Osteopathic Techniques, 2nd Ed. Nicholas & Nicholas. 2012.	9781451102451 1451102453	$66
	Atlas of Osteopathic Techniques, 3rd Ed. Nicholas & Nicholas. 2016.	9781451193411 1451193416	$129
	Foundations of Osteopathic Medicine, 3rd Ed. Chila, A. Lippincott, Williams & Wilkins. 2012.	9781609137564 1609137566	$71
	Glossary of Osteopathic Terminology, 3rd Ed. Giusti, R. American Osteopathic Association. 2011.	To be determined	$10
CLME 8932 Clinical Care Foundations III	Bates' Guide to Physical Examination and History Taking, 12th Ed. Bickley, L. Lippincott, Williams & Wilkins. 2017.	978-1469893419	$79
	Clinician's Pocket Reference, 11th Ed. Gomella, LG. Appleton and Lang. 2007.	0071260951 9780071260954	$125
PCME 8843 Musculoskeletal / Skin / Connective System	Pharmacology, 4th Ed. Brenner and Stevens. Elsevier/Saunders. 2013	9781455702824 145570282X	$57
	Robbins and Cotran Pathological Basis of Disease, 9th Ed. Elsevier Saunders. 2015.	9781455726134 1455726133	$97
	Primer on the Rheumatic Diseases, 13th Ed. Klippel, J. Springer Science+Business Media. 2008.	9780387685663 0387685669	$48
	Nelson Textbook of Pediatrics, 20th Ed. Kliegman, R., et. al. Elsevier. 2016.	0323263526 9780323263528	$135
PCME 8863 Reproductive System	Pharmacology, 4th Ed. Brenner and Stevens. Elsevier/Saunders. 2013.	978-0-323-39166-5	$57
	Histology, A Text and Atlas. 7th Ed. Ross, M.H. and W. Pawlina. Wolters Kluwer/Lippincott Williams & Wilkins Health. 2015.	1-4511-8742-4	$55
	Medical Microbiology, 8th Ed. Murray, P., et. al. Saunders/Elsevier. 2016.	978-0-323-29956-5	$55
	Robbins and Cotran Pathological Basis of Disease, 9th Ed. Elsevier Saunders. 2015.	978-1-4557-2613-4	$97
PCME 8903 Endocrine System	Pharmacology, 4th Ed. Brenner and Stevens. Elsevier/Saunders. 2013	9781455702824 145570282X	$57
	Physiology, 5th Ed.. Costanzo, L. Saunders Company, 2014	978-141-606-21654	$64
	Robbins and Cotran Pathological Basis of Disease, 9th Ed. Elsevier Saunders. 2015.	9781455726134 1455726133	$97
	Histology, A Text and Atlas. 7th Ed. Ross, M.H. and W. Pawlina. Wolters Kluwer/Lippincott Williams & Wilkins Health. 2015.	9781451187427 1451187424	$55
PCME 8982 Integrative Systems Review	How to Study for Standardized Tests. Sefick, D. Jones & Bartlett Learning. 2013.	076377362X 9780763773625	$55

T. Information about Graduate Medical Education, Match Programs, and COMLEX Performance

The Match

National Matching Service – D.O. Match
The AOA Intern/Resident Registration Program (https://natmatch.com/aoairp/) is a matching program that places students into osteopathic graduate medical education positions in the United States. The Intern/Resident Registration Program (the "Match") is sponsored and supervised by the American Osteopathic Association (AOA). The Match is administered on behalf of the AOA by National Matching Services Inc. (https://natmatch.com/).

To obtain an AOA-approved OGME-1 position in an osteopathic internship or residency, or to obtain an OGME-2 residency position in Dermatology or Preventive Medicine-Public Health, students and trainees must register for and participate in the AOA Match.

The Main Residency Match – M.D. Match
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 during the Match Week Supplemental Offer and Acceptance Program®. The Main Residency Match is managed through the 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 and respect the right of applicants to freely investigate program options prior to submission of their rank order lists.

The NRMP also offers couples matching: http://www.nrmp.org/couples-in-the-match/.

Additional Matches

- San Francisco Match (Neurotology, Ophthalmology, Plastic Surgery): https://www.sfmatch.org/
- Urology Match: http://www.urologymatch.com/
- Army and Navy GME

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

- 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.
- In 2016, OSU-COM had a graduating class of 105 with a 100% match rate.
- In 2015, OSU-COM had a graduating class of 91 with a 99% 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

- 2017 – 2018: 94.29%
- 2016 – 2017: 82.57%
- 2015 – 2016: 77.06%
- 2014 – 2015: 89.19%

COMLEX-USA Level 2 CE School Pass Rate

- 2017 – 2018: 93.46%
- 2016 – 2017: 95.05%
- 2015 – 2016: 92.52%
- 2014 – 2015: 96.77%

COMLEX-USA Level 2 PE School Pass Rate

- 2017 – 2018: 95.33%
- 2016 – 2017: 91.00%
- 2015 – 2016: 97.17%
- 2014 – 2015: 93.55%

COMLEX-USA Level 3 School Pass Rate

- 2017 – 2018: 93.50%
- 2016 – 2017: 97.27%
- 2015 – 2016: 100.00%
- 2014 – 2015: 95.40%

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

VI. 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 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
- 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	$ 196.00 per credit hour
• Non-Resident Tuition	$ 785.75 per credit hour

Fees
Multiplied by the number of credit hours in which a student is enrolled

• Academic Facility Fee	$ 17.25
• Academic Records and Maintenance Fee	$ 4.35
• Advising/Assessment fee	$ 8.90
• *Daily O'Collegian* fee	$ 0.30
• Student Facility Fee, General	$ 4.70
• Student Facility Fee, Campus Rec	$ 3.00
• Health Services Fee	$ 5.00
• Library Automation and Technology Fee	$ 15.00
• Life Safety and Security Fee	$ 3.50
• Student Activity Fee	$ 2.50
• Student Activity Fee – Athletic Fee	$ 5.50
• Student Development Fee	$ 2.00
• Transit/Parking Services Fee	$ 2.30
• University Technology and Infrastructure Maintenance Fee	$ 10.15
• Academic Excellence Fee	$ 17.50
• Student Union Renovation Fee	$ 4.35

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 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.

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

The Oklahoma State University Center for Health Sciences (OSU-CHS) offers a joint Doctor of Osteopathy 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, with some courses at OSU-Tulsa, and a growing number of courses available via distance learning.

Today's successful physicians must have 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:

- Official MCAT Score
- 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
- 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

• Academic Facility Fee	$ 24.65 per credit hour
• 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	$ 11.65 per credit hour
• Academic Excellence Fee	$ 15.50 per credit hour
• Student Union Renovation Fee	$ 5.15 per credit hour

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

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 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

First Semester – Fall (15 credit hours)

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.

REMS 5953 Statistical Methods in Education.
Statistical methods needed by conductors and consumers of research in education and the behavioral sciences. Introduction to interpretation and application of descriptive and inferential statistics.

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 5093 Leadership Methods and Styles in Health Care
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.

Second Semester – Spring (12 credit hours)

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.

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.

MC 5953 Strategic Health Communications Campaigns
The course will focus on theoretical approaches to health message design and the most effective and strategic use of traditional and new media outlets. Students also will review and discuss examples of past and current health communication campaigns in the United States and around the world. Integrating theory and practice, students will apply these concepts to design strategic communication campaigns for area health agencies and organizations.

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.

VIII. 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 general biology, upper division chemistry, and physics. 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 either the M.S. or Ph.D. program are expected to have earned a score of at least 150 for verbal and at least 150 for quantitative on the Graduate Record Examination (GRE), with a writing score of at least 4. 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). Taking the GRE is not required, but is desirable. 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 not required to submit a GRE score if they have earned a score of 512 or greater on the MCAT. Applicants with a GRE score of at least 160 for verbal, at least 160 for quantitative and an MCAT score less than 512 will also be considered. 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://health.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.

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://health.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

Other Fees

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

Tuition and Fees are subject to change.

Stipends
Stipends are available to full-time Ph.D. students on a competitive basis from the Office 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 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 a minimum of 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 is restricted to 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 at https://gradcollege.okstate.edu/tdg. 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 two final and approved copies to the Center for Health Sciences, one copy to be kept in the Medical Library and one in the Office of Biomedical Sciences.

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 32 semester credit hours. Admission requirements are described in Admission Requirements, Application Procedure and Application Materials.

Thesis option – 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 – 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. However, the non-thesis option does not require a public presentation or defense of the research project.

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 1. Required Courses: Biomedical Sciences Track

Course #	Course Title	Semester Credit Hours
BIOM 6922	Scientific Communication in the Biomedical Sciences	2
BIOM 6662	Research Ethics and Survival Skills for the Biomedical Sciences	2
Statistics	Statistics for Experimenters I (or equivalent)	3

Table 2. Required Courses: Anatomy and Vertebrate Paleontology Track

Course #	Course Title	Semester Credit Hours
BIOM 5116	Gross Anatomy	6
BIOM 6662	Research Ethics & Survival Skills for the Biomedical Sciences	2
Statistics	Statistics for Experimenters I (or equivalent)	3
Microanatomy	Development & Histology (or equivalent)	4
BIOM 5641	Cornerstones in Vertebrate Paleontology	1

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 pursing 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 pursing 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 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, and submit a written report to their advisory committee.

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 not 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

Course #	Course Title	Semester Credit Hours
BIOM 6922	Scientific Communication in the Biomedical Sciences	2
BIOM 6662	Research Ethics and Survival Skills for the Biomedical Sciences	2
Statistics	Statistics for Experimenters II (or equivalent)	3

Table 5. Required Courses: Anatomy and Vertebrate Paleontology Track

Course #	Course Title	Semester Credit Hours
BIOM 5116	Clinical Gross Anatomy	6
BIOM 6662	Research Ethics & Survival Skills for the Biomedical Sciences	2
Statistics	Statistics for Experimenters II (or equivalent)	3
Microanatomy	Development & Histology (or equivalent)	4
BIOM 5641	Cornerstones in Vertebrate Paleontology	1
BIOM 6943	Advanced Vertebrate Paleontology	3

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 publically 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 and advisory committee 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 website at https://gradcollege.okstate.edu/sites/default/files/AdmDocCandidacy2013.pdf.

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 at https://gradcollege.okstate.edu/tdg. 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 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, auto immune 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 6543 Environmental Toxins and the Brain
Introduces the fundamental aspects of neurotoxicology using both cellular and molecular approaches in neurochemistry and toxicology.

BIOM 6583* Neuroinflammation
Prerequisite(s): Graduate standing. Provides an understanding of inflammation in the central nervous system through discussion of current and experimental pharmacologic strategies designed to modulate neuroinflammation.

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, bioenergenetics, 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 6791* Foundations in Medical Microbiology
Infectious agents, including viruses, bacteria, fungi and parasites, their structure, genetics and mechanisms of pathogenesis in human disease. Same course as PCME 8791.

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.

* Denotes lab fee

IX. 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 options)
- Graduate Certificate in Forensic Arson, Explosives, Firearms and Toolmarks Investigation (name change pending)

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. The GRE Revised General Test is required for admission. The recommended minimum scores are 150 each for the Quantitative and Verbal sections. The Analytical Writing score, as well as percentile rankings for all sections, is also considered. See www.gre.com for test information.

Admission to the M.S. options also requires an undergraduate degree, but no specific major is required. Options include Arson, Explosives, Firearms and Toolmarks Investigation, Forensic Document Examination, 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 Document Examination must have associated training or experience. Taking either the GRE or the Miller Analogy Test (MAT) is required. The recommended score for the MAT and GRE is above the 50th percentile. For information on the MAT, see www.pearsonassessments.com.

Admission to the Graduate Certificate (GCRT) in Arson, Explosives, Firearms and Toolmarks Investigation also requires an undergraduate degree, but no specific major is required. Applicants must have associated training or experience. Taking either the GRE or the Miller Analogy Test (MAT) is required. The recommended score for the MAT and GRE is above the 50th percentile.

Individuals already holding advanced degrees may request permission from the Academic Coordinator to substitute scores on the following tests in place of the GRE: Medical College Admission Test (MCAT); Dental College Admission Test (DAT); passing scores on the national board examination in dentistry, nursing, medicine, psychology, or accounting; or passing scores on the state bar exam. Completion of other advanced degrees, such as a master's or doctoral degree, or evidence of success at the post-baccalaureate level may also be considered in lieu of the GRE or MAT examination.

International Student Admission
International students must take the Test of English as a Foreign Language (TOEFL) and achieve a minimum score of 100 on the iBT version with at least 20 on the written portion; or for the paper version of the TOEFL, a minimum score of 600 with at least 5 required on the Test of Written English (TWE). An IELTS score of 7.0 will be accepted in place of the TOEFL/TWE. These exceed the minimum requirements for OSU international admission. International applicants must have transcripts evaluated by World Education Service (WES). See http://www.wes.org for details.

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 http://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
- February 1 for the following fall semester

- July 1 for the following fall semester for:
  - Options in Arson, Explosives, Firearms and Toolmarks Investigation, Forensic Science Administration, and Forensic Document Examination, and the GCRT; and
  - Any available openings in the thesis program tracks.
- December 1 for the following spring semester for:
  - Forensic Science Administration.

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. Test Scores and Reporting: Applicants should self-report test scores in the Graduate Application and have official scores sent to the OSU Graduate College
   - For GRE and TOEFL/TWE tests, applicants should use 6546 as the Institutional Code for Oklahoma State University; and
   - For the MAT test, applicants should use 2172 as the Recipient Code.
4. For options in Arson, Explosives, Firearms and Toolmarks Investigation, Forensic Science Administration, and Forensic Document Examination only: a completed Verification of Forensics-Related Employment form sent directly by the employer.
5. For Arson, Explosives, Firearms and Toolmarks Investigation, a CV or resume.
6. Three letters of recommendation uploaded directly into the Graduate Application by the recommenders.
7. 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.
8. 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, examination scores, 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 along with a $100 deposit 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 for M.S. options in Forensic Science Administration and Forensic Document Examination have 30 days to respond, except for summer applicants, who must respond within two weeks of the offer. 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

For current information, see https://health.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

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
• Academic Records Fee	$ 3.35 per credit hour
• Student Activity Fee	$ 7.72 per credit hour
• Student Union Fee (On-Campus Students Only)	$ 5.00 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

Other Fees

- Master's application $ 50.00 ($ 75.00 for international students)
- Graduation Fee (applicable for graduating semester) $ 40.00

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.

Academic Common Market/Electronic Campus Waiver
M.S. students pursuing options in Forensic Science Administration and Forensic Document Examination and residing in the following states may qualify for reduced tuition under provisions of the Academic Common Market and the Southern Regional Education Board: Alabama, Arkansas, Delaware, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, South Carolina, Tennessee, Texas, Virginia, and West Virginia. Contact the Academic Coordinator at 918-561-1108 or 800-677-1972, Ext. 11108, for details. This waiver is not available to students in the Dissertation or Thesis programs. M.S., GCRT, and non-degree-seeking graduate students pursuing the Arson, Explosives, Firearms and Toolmarks Investigation option may also receive waivers of non-resident tuition.

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

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.

With the approval of the advisory committee and the Academic Coordinator, the applicant may receive up to nine hours of transfer credit for graduate level courses completed at another accredited college or university. 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 Program office at 1-800-677-1972 or 918-561-1108.

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 and Explosives Investigation option also include on-site components, which carry an additional associated fee.

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

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

For information regarding the GCRT and M.S. option in Arson, Explosives, Firearms and Toolmarks Investigation for law enforcement, military investigators, and fire investigators, contact the AEFTI academic coordinator at MSFS-AEI@okstate.edu or at 918-561-8424.

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 four areas of specialization, and non-thesis options in Arson, Explosives, Firearms and Toolmarks Investigation, Forensic Science Administration (FSA), and Forensic Document Examination (FDE). All Master's students must satisfactorily complete a research project and a comprehensive examination to achieve the degree. Both programs feature online courses, but the thesis program requires at least three semesters on campus while the non-thesis options may be achieved through online classes. The AEFTI option requires on-site participation within some online courses.

The maximum time to complete the 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. With at least 21 of the required graduate hours 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;
- Forensic Investigative Sciences; 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 degree requires satisfactory completion of 39 graduate credit hours, a research project, and a comprehensive examination. 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. Options
Options in the Master's program are for individuals already engaged in careers related to the forensic sciences. These options allow professionals to complete an online Master's degree while remaining active in their careers. Participants typically attend part time, taking 6 credits per semester to complete the program in 3 ½ to 4 years. Three options are available:

- Arson, Explosives, Firearms and Toolmarks Investigation (AEFTI);
- Forensic Document Examination (FDE); 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. A related professional background is defined as being employed full-time by a recognized local, county, state, or federal law enforcement agency, fire department, or branch of the military. The full-time assignment must be directly related to explosives, explosives investigation, fire/arson investigation, intelligence, or firearms and toolmarks examiners. All prospective students are individually vetted prior to application to the program.

The Option in Forensic Document Examination (FDE) provides academic studies for individuals pursuing apprenticeship or journeyman programs that prepare document examiners, trainees, and laboratory interns for

certification. Because FDE certification involves two years of training under the mentorship of a qualified document examiner, applicants must either have training in or professional experience with FDE. This degree does not result in professional certification. This option consists entirely of online courses.

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 degree option requires satisfactory completion of 39 graduate credit hours, a research project, and a comprehensive examination. Students in these options 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.

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

Degree Requirements

Forensic Sciences (M.S. and Ph.D.)

Curriculum: MS (Non-AEFTI) and PhD (all concentrations):

The MS degree requires **39 graduate credit hours**, a research thesis, formal report or creative project, a **capstone examination,**[1] and participation in graduate seminars or continuing education,[2] all 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. The thesis program features tracks in forensic biology/DNA, forensic chemistry/toxicology, forensic investigative sciences, and forensic psychology. Non-thesis options in forensic investigative sciences, forensic psychology, forensic science administration (FSA), and forensic document examination (FDE) are available entirely online. The Arson, Explosives, Firearms & Toolmarks Investigation (AEFTI) Option is shown separately and includes some hybrid courses.[3] See the chart below for requirements for each degree track or option. The MS Forensic Biology/DNA and Forensic Chemistry/Toxicology tracks are accredited by the Forensic Science Education Programs Accreditation Commission of the American Academy of Forensic Science, also known as FEPAC.

The PhD degree requires at least 60 credit hours, admission to doctoral candidacy, and the preparation and successful defense of a doctoral dissertation, to be completed within 9 years of admission. The doctoral program features concentrations in Arson, Explosives, Firearms & Toolmarks Investigation (AEFTI), Forensic Biology/DNA, Forensic Chemistry/Toxicology, Forensic Investigative Sciences, and Forensic Psychology. Doctoral students will successfully complete at least 15 credit hours (5000 or 6000-level) of Research Design and Methods, Advanced Statistics, Forensic Science Seminar, and two directed electives chosen with consultation of the Advisory Committee from the following list.

General Requirements	Venue	Credits	Biology/DNA Track	Forensic Inv. Sciences Track	Chemistry/ Toxicology Track	Psychology Track	FSA Option	FDE Option
FRNS 5013 Survey of Forensic Sciences	Online (OL)	3	□	□	□	□	□	□
FRNS 5063 Ethical Research and Scientific Writing	Online	3	□	□	□	□	□	□
FRNS 5073 Quality Assurance in Forensic Science	Online	3	□		□		□	□
FRNS 5613 Criminalistics and Evidence Analysis	Online	3	□	□	□	□	□	□
FRNS 5653 The Law and Expert Evidence	Online	3	□	□	□	□	□	□
FRNS 5000 Research and Thesis (1-3 hrs/semester)	Campus	1-6	□	□[11]	□	□[11]		
FRNS 5980 Non-thesis Creative Component	Ind. Study	1-3		□[12]		□[12]	□	□
FRNS 5963 Forensic Statistics (thesis and AEFTI) BIOM 5003 Statistics for Medical Res. (thesis)	Online Campus	3	□	□	□	□		
Requirements for Track or Option[4]								
FRNS 5023 Questioned Document Examination	Online	3						□
FRNS 5033 Forensic Handwriting Examination	Online	3						□
FRNS 5043 Technical Aspects of FDE	Online	3						□
FRNS 5053 Historical Aspects of FDE	Online	3						□
FRNS 5083 Ethics in Forensic Leadership	Online	3					□	
FRNS 5090 Forensic Science Internship	Campus	1-3						
FRNS 5213 Molecular Biology	Online	3	□				□[6]	
FRNS 5242 Population Genetics	Campus	2	□					
FRNS 5282 Methods in Forensic Sciences[5]	Campus	2	□		□			
FRNS 5323 Forensic Microbiology	Online	3						
FRNS 5413 Forensic Pathology and Medicine	Online	3			□		□	
FRNS 5422 Forensic Osteology and Anthropology	Hybrid	2						
FRNS 5513 Forensic Bioscience	Online	3	□					
FRNS 5523 Forensic Toxicology	Online	3			□			
FRNS 5543 Advanced Forensic Toxicology	Online	3			□			
FRNS 5622 Advanced Criminalistics	Campus	2	□		□	□		
FRNS 5713 Forensic Psychology	Online	3				□		
FRNS 5733 Forensic Victimology	Online	3				□		
FRNS 5753 Criminal Profiling	Campus	3				□		
FRNS 5943 Forensic Management & Org. Dev.	Online	3					□	
HCA 5023 Human Resources in HC & Public Admin.	Online	3					□	

[1] Includes a written capstone examination over content and concepts from courses taken, proof of satisfactory courtroom testimony experience (as defined by the Graduate Program of the School of Forensic Sciences), and advisory committee review of research.
[2] A total of 16 actual hours of either continuing education or attendance at on-campus seminars fulfills this requirement.
[3] Hybrid course feature online content and activities as well as on-site sessions, typically over a single 3-5 day period.
[4] The advisor may require "directed" electives according to sub-specialization within the track, especially in forensic psychology.
[5] College-level biology and chemistry is a prerequisite;
[7] FRNS 5523 Forensic Toxicology may substitute for this course on Administration option.
[6] College-level biology is a prerequisite.
[8] For more information, contact the Graduate College office.
[9] This class meets on the main OSU campus in Stillwater.
[10] This class is offered both online and on campus at OSU-Tulsa or in Stillwater.
[11] Thesis and formal report students only.
[12] For creative component students.

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. In the list below, an asterisk (*) denotes an online course, while a double asterisk (**) indicates a hybrid course, which has online content/activities as well as on-site sessions, typically over 3-5 days

Electives for Degree Students in thesis and dissertation tracks, FDE and FSA options:
FRNS 5023 Forensic Examination of Questioned Documents*
FRNS 5053 Historical Aspects of Forensic Document Examination*
FRNS 5083 Ethics in Forensic Leadership*
FRNS 5090 Internship in Forensic Sciences (1-3)
FRNS 5213 Molecular Biology [6]*
FRNS 5242 Population Genetics
FRNS 5282 Methods in Forensic Sciences
FRNS 5323 Forensic Microbiology*
FRNS 5413 Forensic Pathology and Medicine*
FRNS 5422 Forensic Osteology and Anthropology**
FRNS 5513 Forensic Bioscience*
FRNS 5523 Forensic Toxicology*
FRNS 5533 Drug Toxicity*
FRNS 5543 Advanced Forensic Toxicology*
FRNS 5622 Advanced Criminalistics
FRNS 5713 Forensic Psychology*
FRNS 5723 Advanced Forensic Psychology*
FRNS 5733 Forensic Victimology*
FRNS 5743 Seminar in Forensic Psychology
FRNS 5753 Criminal Profiling
FRNS 5943 Forensic Management and Organizational Development*
FRNS 5960 Forensic Problem Solving through Applied Research (1-3)*
FRNS 5970 Directed Readings in Forensic Sciences (1-3)*
FRNS 5963 Forensic Statistics*
FRNS 5990 Special Topics in Forensic Sciences (1-3) Classes may be online, on campus, or hybrid course.
FRNS 6083 Advanced Forensic Statistics (3)
FRNS 6713 Applied Forensics (3)
FRNS 6723 Mixed Methods in Forensic Sciences (3)
FRNS 6733 Juvenile Issues in Forensic Sciences (3)
BIOM 5003 Statistics for Medical Residents
BIOM 6543 Environmental Toxins and the Brain
GRAD 5992-802 Succeeding in the Professoriate [8,9]
HCA 5023 Human Resources in Health Care and Public Administration*
PLP 5343 Principles of Plant Pathology [10]

Additional AEFTI Electives available for non-AEFTI students with Instructor and Program Director approval:
FRNS 5183 Computer Fire Modeling*
FRNS 5193 Advanced Computer Fire Modeling*
FRNS 5813 Building Construction and Fire/Explosion Forensic Examination*
FRNS 5823 Forensic Examination of Fire Protection Systems*
FRNS 5853 Electrical Theory & Failure Analysis in Forensic Fire Investigations*
FRNS 5123 Fire Dynamics in Forensic Investigations*
FRNS 5143 Methods in Fire & Explosion Investigation, NFPA 921/1033*
FRNS 5423 Blast Injuries & Effects*
FRNS [5873] Firearms and Toolmarks*
FRNS 5423 Blast Injuries & Effects*

Additional Electives for Degree Students in Psychology track (up to 7 credit hours required from courses below):
POLS 5673 Understanding/Responding to Terrorism
POLS 6343 Organizational Behavior in Disaster
SOC 5243 Social Research Design
SOC 5363 Qualitative Analysis and Social Research
SOC 5273 Qualitative Research Methods
SOC 5283 Advanced Qualitative Sociological Research
SOC 5343 Sociology of Law and Punishment
SOC 6653 Seminar in Social Psychology
SOC 6753 Seminar in Deviance and Criminology
SOC 6763 Seminar in Criminal Behavioral Analysis

PSYC 5113 Psychopathology
PSYC 5153 Cognitive Assessment
PSYC 5304 Quantitative Methods in Psychology
PSYC 5314 Quantitative Methods in Psychology II
PSYC 5823 Cognitive Processes
PSYC 6083 Principles of Behavior Therapy
PSYC 6143 The Psychology of Substance Abuse
PSYC 6563 Advanced Social Psychology
PSYC 6753 Assessment of Personality
PSYC 6813 Multivariate Statistics for Psychology
EPSY 5463 Psychology of Learning
EPSY 5403 Adolescent Development
EPSY 5853 Applied Behavioral Analysis
EPSY 6533 Human Motivation

*Asterisk indicates an online course.
**Double asterisk indicates a hybrid course, which has online content/activities as well as on-site sessions, typically over 3-5 days.

Curriculum: AEFTI MS Degree
The MS degree requires 39 graduate credit hours, a research project, and a comprehensive examination[1] 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.

Core Requirements	Venue	Credits	Explosives	Arson	Firearms & Toolmarks
FRNS 5063 Ethical Research and Scientific Writing	Online	3	□	□	□
FRNS 5613 Criminalistics and Evidence Analysis	Online	3	□	□	□
FRNS 5653 The Law and Expert Evidence	Online	3	□	□	□
FRNS 5963 Forensic Statistics	Online	3	□	□	□
FRNS 5980 Non-thesis Creative Component	Online/Ind. Study	3	□	□	□
Core Credits:			15	15	15
Elective Options					
FRNS 5013 Survey of Forensic Sciences	Online	*3*	□	□	□
FRNS 5073 Quality Assurance in Forensic Science	Online	*3*	□	□	□
FRNS 5103 The Chemistry of Pyrotechnics	Online, and 40 hour on-site requirement	3	□	□	□
FRNS 5113 The Chemistry of Explosives	Online, and 40 hour on-site requirement	3	□	□	□
FRNS 5133 Forensic Ordnance ID & Recognition	Online, and 40 hour on-site requirement	3	□	□	□
FRNS 5143 Methods in Fire & Explosion Investigation, NFPA 921/1033	Online	3	□	□	□
FRNS 5153 Explosives Research, Testing & Evaluation Methods	Online	3	□	□	□
FRNS 5163 Advanced Fire Dynamics with Lab	Online, and 40 hour on-site requirement	3		□	□
FRNS 5173 Advanced Explosion Investigation	Online, and 40 hour on-site requirement	3	□		□
FRNS 5183 Computer Fire Modeling	Online	3	□	□	□

[1] Includes a capstone exam over course content and concepts from courses taken, and advisory committee review of research.

FRNS 5193 Advanced Computer Fire Modeling	Online	3	□	□	□
FRNS 5423 Blast Injuries & Effects	Online	3	□	□	□
FRNS 5433 Advanced Blast Injuries & Effects	Online	3	□	□	□
FRNS 5663 Destructive Devices/Explosives: Law and Regulations [3]	Online	3	□	□	□
FRNS 5673 Intelligence for Forensic Investigators	Online	3	□	□	□
FRNS 5713 Forensic Psychology	Online	3	□	□	□
FRNS 5723 Advanced Forensic Psychology	Online	3	□	□	□
FRNS 5803 Circuit Exploitation of Destructive Device Exploitation	Online	3	□	□	□
FRNS 5813 Building Construction and Fire/Explosion Forensic Examination	Online	3	□	□	□
FRNS 5823 Forensic Examination of Fire Protection Systems	Online	3	□	□	□
FRNS 5833 Identification of Destructive Device Fuzing Systems	Online	3	□	□	□
FRNS 5843 Advanced Destructive Device Circuit Exploitation	Online	3	□	□	□
FRNS 5853 Electrical Theory & Failure Analysis in Forensic Fire Investigations	Online	3	□	□	□
FRNS 5863 Advanced Electrical Theory & Failure Analysis in Forensic Fire Investigations	Online	3	□	□	□
FRNS 5873 Firearms and Toolmarks	Online	3	□	□	□
FRNS 5970 Directed Readings	Online	3	□	□	□
FRNS 5990 Forensic Evidence Processing for Post-Blast Investigations	Online	3	□	□	□
FRNS 5990 Advanced Forensic Evidence Processing for Post-Blast Investigations	Online	3	□	□	□
FRNS 5990 Introduction to Digital Evidence	Online	3	□	□	□
FRNS 5990 Forensic Engineering for Investigators	Online	3	□	□	□
FRNS 5990 Forensic Examination of Firearms	Online	3	□	□	□
FRNS 5990 Advanced Forensic Examination of Firearms	Online	3	□	□	□
FRNS 5990 Forensic Examination of Toolmarks	Online	3	□	□	□
FRNS 5990 Advanced Forensic Examination of Toolmarks	Online	3	□	□	□
Total Credits Required to Complete MS			**39**	**39**	**39**

H. 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.

I. Course Descriptions[2]

FRNS 5000 Supervised Forensic Research Project Thesis and Seminar
Prerequisite(s): Consent of major advisor, 5063 Ethical Research and Scientific Writing (or equivalent course), and BIOM 5013 Medical Biostatistics OR STAT 5013 Statistics for Experimenters I. Research in forensic sciences for M.S.F.S. degree. [Independent study, laboratory course]

FRNS 5013 Survey of Forensic Sciences
Provides overview of various forensic disciplines and their relation to presentation of evidence and problems of law. Covers major areas and reviews current guidelines for quality assurance/control, and certification/accreditation. [Internet course]

FRNS 5023 Forensic Examination of Questioned Documents[3]
Prerequisite(s): FRNS 5013 Survey of Forensic Sciences or consent of instructor. Instructs students in functions of questioned document examiners, beyond document analysis to related services and issues. Covers history of field, process for obtaining exemplars, types of document examination, collection/preservation of evidence, and 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 the course.) [Internet course]

FRNS 5033 Forensic Handwriting Examination: Theory and Practice
Prerequisite(s): FRNS 5023 Forensic Examination of Questioned Documents and approval of lead instructor in forensic document examination. Theoretical and practical aspects of handwriting as forensic evidence. Covers 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. [Internet course]

FRNS 5043 Technical Aspects of Forensic Document Examination
Prerequisite(s): FRNS 5023 Forensic Examination of Questioned Documents and approval of lead instructor in forensic document examination. Basic theory in visual examination of questioned documents. Includes visual and color theory, measuring tools, instruments, simple microscopy, and photographic techniques. Also provides 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). [Internet course]

FRNS 5053 Historical Aspects of Forensic Document Examination
This course presents historical aspects of forensic document examination. It covers the development of handwriting, the acceptance of document examination expertise in Britain and North America, the early luminaries, and famous cases. [Internet course]

FRNS 5063 Ethical Research and Scientific Writing
Prerequisite(s): Permission from Research Advisor. 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. [Internet course]

FRNS 5073 Quality Assurance in Forensic Science
Preparation for the forensic scientist to develop and implement quality assurance and quality control procedures to ensure the excellence of a laboratory. Covers 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. [Internet course]

FRNS 5083 Ethics in Forensic Leadership
Focuses on leadership development for managers of forensic organizations, including examination of leadership and ethics theories, application of theories to problems in forensic settings, and tasks and relational skills for developing effective teams and groups within an ethical framework. [Internet course]

---

[2] 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.
[3] This course may be taken concurrently with prerequisite course.

FRNS 5090 Internship in Forensic Sciences
Prerequisite(s): FRNS 5073 Quality Assurance, 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.

FRNS 5093 Scientific Writing and Presentation Skills
This course develops ethics & skills for scientific research, writing & presentation skills including RCR standards. It covers research approaches, genres of scientific writing & writing techniques relative to research & development of response to a scientific question. Students will present findings in written or report form or via presentation. Students will apply effective organizational & design strategies to scientific writing & presentations, including development of related media.

FRNS 5103 The Chemistry of Pyrotechnics
This is a 3 credit graduate level course designed to give the student a fundamental knowledge of the chemistry of pyrotechnics/low explosives that are intended to function as propellants, or generate pyrotechnic effects such as light, heat, sound, smoke and color. The emphasis will be on the chemical and thermodynamic principles required to formulate these compositions and which determine their performance. The topics include: Introduction to Energetic/Explosive Materials, Introduction to Thermodynamics, Heat, Light and color, Smoke, etc. Additionally, the analytical techniques that measure the sensitivity and the qualitative/quantitative composition of pyrotechnics will be discussed.

FRNS 5113 The Chemistry of Explosives
This is a 3 credit graduate level course designed to give the student 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. The emphasis will be on the chemical and thermodynamic principles required to formulate these compositions and which determine their performance. Additionally, the chemistry of high explosives and high explosive formulations, and their effects will be examined. The topics include: Introduction to Energetic/Explosive Materials, Low Explosives and Pyrotechnics, High Explosives, Explosive Effects, Field Screening/Laboratory Analysis of Explosives, Assessing Energetic Materials, Initiation Systems, Fuel/Air Explosions.

FRNS 5123 Fire Dynamics in Forensic Investigations
Fire Dynamics will teach the fundamentals of how chemistry, fire science, fluid mechanics and heat transfer interact to influence fire behavior. The course uses basic level math, chemistry and physics to teach introductory level fire dynamics with an emphasis on how it can be applied to fire and explosion investigations. Topics covered include combustion and fire chemistry, products of combustion, heat transfer, ignition, flame spread, burning rates, fire plumes, fuel/air explosions, compartment fire dynamics, ventilation limited fires, fire toxicity, introduction to computer fire models and the use of fire dynamics within the framework of the scientific method when applied to fire scene investigations.

FRNS 5133 Forensic Ordnance Identification and Recognition
This course provides the fundamentals of a practical deductive process used to identify unknown military ordnance, as well as the safety precautions that should be applied in order to minimize associated hazards. In order to address this topic in a concise manner, the course focuses on the identifiable construction features associated with how a munition is designed to function. Though far from absolute, these features offer a measure of constants often found on ordnance. Proper identification and adherence to appropriate safety precautions ensure the safety of everyone involved while minimizing the threat and economic impact to the community.

FRNS 5143 Methods in Fire and Explosion Investigation NFPA 921/1033
This course satisfies the basic requirements as described in National Fire Protection Association (NFPA) 1033, Standard for Professional Qualifications for Fire Investigator. Topics include: Investigative Methodology & Planning the Investigation, Legal Considerations, Safety, Fire Science, Fire Patterns, Building Construction & Systems, Origin Determination, Interviewing, Documentation of the Investigation, Physical Evidence Collection, Fire- Related Human Behavior Explosions, Fire and Explosion Deaths and Injuries, Electricity, Accidental Fires Incendiary Fires, Vehicle Fires, Wildfire Investigation, Management of Major Investigations, Practical Exercises, Qualifications for Fire Investigation, Recent Cases Resolved by Science Testing/Case Studies, Emerging Trends in Scientific Testing and Research.

FRNS 5153 Explosives Research, Testing and Evaluation Methods
Covers explosives characterization methods (friction test, impact test, etc.) and explosives range testing methods to include how to develop and document a test plan, test methods and instrumentation (VOD, high speed pressure measurement, high speed video, UN test methods), documenting the test results, writing a scientific or academic paper on the test (suitable for publishing). The purpose is to provide the student with exposure to test methods, the range instrumentation options and their purposes, and report writing, so that the student will be able to competently assist with range testing and be able to create a written test plan, and paper suitable for publishing. This may require students to conduct a hands-on lab at either the CENFEX range or other certified government laboratory to work with the equipment. The rest of the class would be distance, supported by PowerPoint and text to be determined.

FRNS 5163 Advanced Fire Dynamics
Prerequisite(s): FRNS 5123 Fire Dynamics for Forensics Investigations and permission of instructor and faculty advisor. 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.

FRNS 5173 Advanced Explosives Investigation
This advanced course is designed to teach a systematic method of investigating an explosion scene. The course provides instruction in explosives identification, identification of precursors, applications, explosives effects, fragmentation analysis, IED component recognition and evidence collection including DNA collection and trace evidence collection and processing as well as the preservation of evidence. The course is comprised of classroom participation, an explosives demonstration and actual investigation of a post blast scene. The course will cover different types of explosions (explosives, fuel/air, dust, intentional and accidental) to examine scientific and investigative concepts to provide the student with the framework to competently conduct an origin and cause investigation of an explosion.

FRNS 5183 Computer Fire Modeling
This course will teach the fundamentals of computational fluid dynamics (CFD) computer fire modeling, using Fire Dynamics Simulator (FDS). Instruction will be introductory level, non-calculus based, and will teach both how to create and run basic fire models as well as their appropriate uses and limitations, with an emphasis on forensic applications. The course will cover 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. The course will teach how to code fire models by hand, but third-party graphical user interfaces will be permitted to be used for assignments if desired. Students will require a computer (Windows or Mac) that allows them to install and execute programs.

FRNS 5193 Advanced Computer Fire Modeling
Prerequisite(s): Basic Computer Fire Modeling and permission of instructor and faculty advisor. This course will expand upon the basic computer fire modeling class, and focus specifically on how to create and use fire models to assist with fire investigations. The class will use Fire Dynamics Simulator (FDS). Topics will 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. Students will require a computer (Windows or Mac) that allows them to install and execute programs. A Prerequisite will be completion of the basic computer fire modeling course, or for experienced FDS users, demonstration of advanced capability.

FRNS 5213 Molecular Biology for the Forensic Scientist
Prerequisite(s): College-level biology. Develops a solid foundation of knowledge in molecular biology for understanding the concepts of genetic marker analysis, especially DNA typing. [Internet course]

FRNS 5242 Population Genetics
Prerequisite(s): FRNS 5513 Forensic Bioscience. This course presents study of population genetics relevant to DNA analysis technologies designed to identify the perpetrators of crime. Topics include a 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. Students will perform appropriate calculations in sample cases and interpret in layman's terms.

FRNS 5282 Methods in Forensic Sciences
Prerequisite(s): Permission of instructor. Advanced-level laboratory course in which students apply knowledge from earlier coursework in a hands-on laboratory setting and employ fundamental techniques and methods

related to forensic biology, forensic toxicology and pattern evidence. [Laboratory course]

FRNS 5323 Forensic Microbiology
Prerequisite(s): Permission of instructor; basic microbiology recommended. 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. [Internet course]

FRNS 5413 Forensic Pathology and Medicine
Prerequisite(s): Permission of instructor. Deals with medico-legal investigation of death and injury due to natural causes, accidents, and violence. Covers analysis/investigation of transportation injuries, homicides/suicides due to various causes, rape, or injury; methods for identification; and guidelines for quality control/asssurance. [Internet course]

FRNS 5422 Forensic Osteology and Anthropology
Prerequisites: Current graduate student status; graduate student in Death Sene Investigation, FRNS 5013, FRNS 5653, and FRNS 5413; or permission from course coordinator. Osteology portion intoduces 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 sessions include work with skeletal material and participation in an excavation. [Hybrid course]

FRNS 5423 Blast Injuries and Effects
This course will take 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, and ophthalmic. Also discussed will be appropriate triage measures and means to quickly treat the most serious life threatening conditions for bystanders that bear witness to on-scene mass casualty explosive events. Medical case studies will be evaluated that will provide added insight into effects and care for victims of explosive events. Additionally, the program of study will provide students the opportunity to research a focus area of interest related to casualties of explosive events.

FRNS 5433 Advanced Blast Injuries and Effects
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.

FRNS 5513 Forensic Bioscience
Prerequisite(s): FRNS 5213 Molecular Biology or permission of instructor, college-level biology and chemistry. Teaches concepts of identity testing, relating history, theory, application, and quality assurance concepts to the material presented. Covers technical concepts of identity testing in the laboratory. Presents basic concepts in genetics and their application in tracing origin of biological samples. [Internet course]

FRNS 5523 Forensic Toxicology
Introduces fundamental aspects of forensic toxicology and emphasizes major subfields of postmortem forensic toxicology, human performance toxicology, and forensic drug testing. Also examines methodologies and analytes associated with these three major subfields. [Internet course]

FRNS 5533 Drug Toxicity
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. [Internet course]

FRNS 5543 Advanced Forensic Toxicology
Prerequisite(s): FRNS 5523 Forensic Toxicology. 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. [Internet course]

FRNS 5613 Criminalistics and Evidence Analysis
Introduces crime investigation techniques and tools; analysis, operation, and function of laboratory; application of scientific concepts; instrumentation and microscopy; use of physical evidence; and guidelines for quality control/assurance and accreditation in the gathering of evidence. [Internet course]

FRNS 5622 Advanced Criminalistics
Prerequisite(s): FRNS 5073 Quality Assurance in Forensic Sciences, FRNS 5616 Criminalistics and Evidence Analysis, FRNS 5653 The Law and Expert Evidence, and basic coursework in the speciality area. Examines practical aspects of criminalistics, duties of crime scene investigator, and techniques/procedures of crime scene processing. Also covers law-enforcement/crime-lab relationships, evidence recovery, and investigation types. One meeting is moot court session. [Laboratory course with collaboration, assigned times]

FRNS 5653 The Law and Expert Evidence
Reviews of ways in which the law, particularly the law of evidence, affects the work of the forensic scientist. Starts with the beginning of the case, most often the crime scene, and works through the legal process up through trial and including appeals and motions for a new trial. Covers, at each stage, legal doctrines of interest to the forensic scientist, such as chain of custody, work product privileges, laying the proper foundation, exhibits, and the standards necessary to obtain a new trial. [Internet course]

FRNS 5663 Destructive Devices/Explosives: Law and Regulations
Crimes involving explosives and arson often represent two of the most violent and potentially catastrophic crimes imaginable. The Federal arson statute demands a thorough analysis of interstate commerce issues, invites great scrutiny of expert witnesses, and requires extensive knowledge of Fourth Amendment protections. Federal controls over explosives involve not only these and other criminal issues, but include comprehensive regulations governing those individuals who may possess explosive materials as well as licensing, marking, safe storage, and classification of explosives. The successful investigation of crimes involving explosives and/or arson requires knowledge of this information. This course is intended to provide criminal investigators with the knowledge required to investigate and solve these crimes.

FRNS 5673 Intelligence for Forensic Investigators
Prerequisite: Permission of instructor and faculty advisor. Intelligence for Forensic Investigators provides an overview on the U.S. Intelligence Community, domestic intelligence, and information sharing processes. The course 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.

FRNS 5713 Forensic Psychology
Prerequisite(s): Permission of instructor. Introduction to the relationship between the disciplines of law and psychology by examining and contrasting the issues at the interface of both disciplines. Covers legal terminology; criminal behavior; ethical, competency, defense, and testimony issues; insanity defense; polygraph testing; and the role and functioning of legal and mental health systems. [Internet course]

FRNS 5723 Advanced Forensic Psychology
Prerequisite(s): FRNS 5013 Survey of Forensic Sciences and FRNS 5713 Forensic Psychology. Expands on topics covered in FRNS 5713 Forensic Psychology; also 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 to mental health professionals. [Internet course]

FRNS 5733 Forensic Victimology
Prerequisite(s): FRNS 5013 Survey of Forensic Sciences or permission of instructor. Introduction to victimology, emphasizing victims' issues within the justice system and in medico-legal investigations. Explores impact of crime on victim; correlations 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.

FRNS 5743 Seminar in Forensic Psychology
Prerequisite(s): Permission of instructor. Capstone seminar course for all subspecialty tracks in forensic psychology. Builds upon prior coursework to prepare student for comprehensive final examination in area of specialization and provide a theoretical background suitable for research leading to publication, presentation, or a thesis or dissertation.

FRNS 5753 Criminal Profiling
Prerequisite(s): Current graduate status or approval of instructor. 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.

FRNS 5803 Circuit Exploitation of Destructive Devices
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.

FRNS 5813 Building Construction and Fire/Explosion Forensic Examination
Prerequisite: Permission of instructor and faculty advisor. This course is designed as 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.

FRNS 5823 Forensic Examination of Fire Protection Systems
Prerequisite: Permission of instructor and faculty advisor. Fire protection systems will teach 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.

FRNS 5833 Identification of Destructive Device Fuzing Systems
The Destructive Device Fuzing Systems is an elective course only open to Masters of Forensic Science, Arson and Explosives Investigation (AEI) program students. The purpose of this course is to expand students' knowledge of destructive device fuzing systems and forensic exams of these systems. The course material focuses on the mechanical, chemical, and electrical fuzing systems of the destructive devices. The on-site instruction portion, which is a mixture of lecture and hands-on circuit builds, focuses specifically on the electronics of electrical fuzing systems.

FRNS 5843 Advanced Destructive Device Circuit Exploitation
Improvised Electronic Devices, or IEDs, have been designated as a Weapon of Mass Destruction (WMD) by the U.S. Department of Homeland Security. The U.S. DoD and various members of the U.S. Intelligence Community have acknowledged the asymmetric weaponry as having strategic impact. This course will examine electro-mechanical IED designs that are found on the open-source Internet. This course will examine electro-mechanical initiator circuitry form the perspective of forensics. This course will examine initiator circuit families such as: Timers, Pressure Sensitive, Radio Controlled, etc. This class will not reference classified material.

FRNS 5853 Electrical Theory and Failure Analysis in Forensic Fire Investigations
Basic Electrical Theory and Failure Analysis in Forensic Fire Investigations will teach basic electricity and basic electrical failure analysis to familiarize the student with how electricity, electrical appliances, and electrical devices can be potential ignition sources in a fire. Topics will 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. This is a self-paced (3) three credit course.

FRNS 5863 Advanced Electrical Theory and Failure Analysis in Forensic Fire Investigations
Advanced Electrical Theory and Failure Analysis in Forensic Fire Investigations will provide the student with a more advanced understanding of electricity, energy, and power. By mastering this class, the student will have a greater ability to comprehend electrical failures and explain them to a jury. Topics include: Electrical Charge, Coulomb's Law, Electric Potential, Electric and Magnetic Fields, Electrostatic Discharge, Electromagnetic Induction, Faraday's Law and Lentz's Law. Transformers, Three-Phase Systems, Motors, Power Systems, and Thermal Degradation of Insulation. This is a self-paced (3) three credit course.

FRNS 5873 Firearms and Toolmarks
This course overview includes general history, and how firearm & 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 & restoration of obliterated serial numbers or other manufacturer-related markings, and assist in shooting reconstruction.

FRNS 5943 Forensic Management and Organizational Development
Prerequisite(s): FRNS 5013 Survey of Forensic Sciences and FRNS 5073 Quality Assurance in Forensic Science. Application of managerial and organizational leadership skills to the demands of forensic sciences, including attention to the human resource/relations and development issues. Attention also given to interagency cooperation, quality control/assurance, certification/accreditation issues, and internal security. [Internet Course]

FRNS 5960 Forensic Problem Solving through Applied Research.
Prerequisite(s): Permission from instructor and faculty advisor. This course examines mixed research methodologies and designs within the field of forensic sciences including the use of theory, ethical issues and writing strategies. The course culminates with writing a thesis or dissertation style introduction, literature review, purpose statement and developing a research question and/or hypothesis. [Internet course]

FRNS 5963 Forensic Statistics
Survey of statistical methodology relevant to forensic scientists. Basic understanding of statistics presented in recent forensic literature. Hypothesis testing, ANOVA techniques, regression, categorical techniques.

FRNS 5970 Directed Readings in Forensic Sciences
Prerequisite(s): Permission of instructor and faculty advisor. Provides guided reading under direction and supervision of the instructor; in-depth, independent study on an identified topic relative to the forensic sciences. [Internet course]

FRNS 5980 Non-Thesis Creative Component in Forensic Sciences
Prerequisite(s): Permission of instructor and faculty advisor; FRNS 5063 Ethical Research and Scientific Writing (concurrent enrollment allowed). 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.

FRNS 5990 Special Topics in Forensic Sciences
Prerequisite(s): Permission of instructor and faculty advisor. Provides for exploration on special topics in the forensic sciences. Students gain an understanding at an advanced level of the particular topic presented.

FRNS 6000 Doctoral Dissertation
Research in Forensic Sciences for PhD degree. Offered for variable credit, minimum of 15 hours.

FRNS 6083 Advanced Forensic Statistics
Analysis of variance, experimental designs pertaining to Forensic Science research, regression and data modeling, and categorical techniques. No credit for students with credit in STAT 5083. Prerequisite(s): FRNS 5963

FRNS 6713 Applied Forensic Theory
Cover the basics of popular criminological, criminalistics, and criminal justice theories used in social, behavioral and forensic science research. Theories provide explanations for why individuals 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.

FRNS 6723 Mixed Methods in Forensic Sciences
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.

FRNS 6733 Juvenile Issues in Forensic Sciences
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 justice systems.

Required, Alternative, and Potential Elective Courses from Other Programs

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. [Internet course available through the OSU-Tulsa campus]

BIOM 5003 Statistics for Medical Residents
Prerequisite(s): Graduate standing. Fundamentals of biostatistics including parametric and non-parametric statistical methods with applications to biomedical research, clinical epidemiology and clinical medicine. [On-campus course, offered spring semester]

BIOM 6543 Neurochemical Toxicology
Prerequisite(s): BIOM 5215 Medical Biochemistry and BIOM 5616 Medical Microbiology and Immunology [or equivalent courses, if approved by instructor]. The fundamental aspects of neurochemistry and neurotoxicology using both cellular and molecular approaches in neurotoxicology will be emphasized using the effects of exogenous toxins such as heavy metals, pesticides, solvents and drugs of abuse and their role in the pathogenesis of neurological toxicity. [Offered on campus at OSU Center for Health Sciences]

GRAD 5992 Succeeding in the Professoriate
Prerequisite(s): Graduate standing and permission of Director of College Teaching Certificate program. Preparation for doctoral students who wish to pursue careers in academia. Focuses on university-level teaching and scholarship. Prepares a foundation course for doctoral students in the University Faculty Preparation Certificate program. [Available at the OSU main campus in Stillwater]

PLP 5343 Principles of Plant Pathology Lab 2
Prerequisite(s): BOT 1404 or BOT 3463 or MICR 2125 or PLNT 2013. Introduction to basic principles and concepts of plant pathology, including the nature, cause, and control of biotic and environmentally induced plant diseases. *Offered in combination with PLP 3343. No credit for both 3343 and 5343. Graduate students will be expected to complete extra assignments.* [Available at the OSU main campus in Stillwater]

REMS 5953 Statistical Methods in Education
Statistical methods needed by conductors and consumers of research in education and the behavioral sciences. Introduction to interpretation and application of descriptive and inferential statistics. [Internet course through the main campus in Stillwater; also available on campus at OSU-Tulsa or in Stillwater]

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.

J. 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 (health.okstate.edu/library). This list may be updated throughout the year.

Course	Textbook Title	ISBN	Retail Price
FRNS 5013 Survey of Forensic Sciences	Forensic Science: An Introduction to Scientific & Investigative Techniques, 4th Ed. James, et. al. CRC Press.	978-1-4398-5383-2	$96
FRNS 5023 Forensic Examination of Questioned Documents	Foundations of Forensic Document Analysis: Theory and Practice, 1st Ed. Allen. Wiley.	978-0-12-802717-2	$150
	Digital and Document Examination, 1st Ed. Houck. Elsevier.	978-0-12-802717-2	$85
FRNS 5113 The Chemistry of Explosives	Chemistry of Pyrotechnics: Basic Principles and Theory, 2nd Ed. Conkling and Mocella. CRC Press.	978-1-57444-740-8	$120
	Chemistry of Powder and Explosives. Davis. GSG and Associates. 1943.	978-0913022004	$21
	Introduction to the Technology of Explosives. Cooper. Wiley-VCH. 1996.	978-0-471-18635-9	$134
FRNS 5133 Forensic Ordnance Identification and Recognition	Practical Military Ordnance Identification, 1st Ed. Gersbeck. CRC Press.	978-1-4398-5058-9	$97

FRNS 5323 Forensic Microbiology	Microbial Forensics, 2nd Ed. Budowle, et. al. Elsevier.	978-0-123-82006-8	$78
FRNS 5523 Forensic Toxicology	Principles of Forensic Toxicology, 4th Ed. Levine. AACC Press.	978-159-425-1580	$99
FRNS 5613 Criminalistics and Evidence Analysis	Forensic Science: From the Crime Scene to the Crime Lab, 4th Ed. Saferstein. Pearson.	978-0-13-480613-6	$74
FRNS 5713 Forensic Psychology	Introduction to Forensic Psychology: Research and Application, 5th Ed. Bartol and Bartol. Sage Publishing.	9781544326740	$63
FRNS 5723 Advanced Forensic Psychology	Profiling and Serial Crime, 3rd Ed. Petherick. Elsevier.	978-1455731749	$73
FRNS 5733 Forensic Victimology	Victimology: Theories and Application, 3rd Ed. Burgess and Roberts. Jones & Bartlett.	978-1-1-2841-3019-5	$100
FRNS 5753 Criminal Profiling	Criminal Profiling: An Introduction to Behavioral Evidence Analysis, 4th Ed. Turvey. Elsevier.	978-0-12-385243-4	$90
FRNS 5863 Advanced Electrical Theory and Failure Analysis in Forensic Fire Investigations	Guide to Fire and Explosion Investigations. Keller. NFPA. 2017	978-1455-916-023 (Print) 978-1455-916-030 (PDF)	$123
	Kirks Fire Investigation, 7th Ed. DeHaan. Brady Books.	978-1455-916-023	$135
	Scientific Protocols for Fire Investigation, 2nd Ed. Lentini. CRC Press.	978-1439875988	$175

X. 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 with a creative component or thesis including six hours of general graduate level electives.

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://www.applyweb.com/oksugrad/.

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

HCA 5013 Survey of Healthcare Administration	3 hours
HCA 5093 Leadership Methods in Healthcare	3 hours
HCA 5123 Research and Evaluation Methods in Healthcare	3 hours
HCA 5033 Legal Issues in Healthcare	3 hours
HCA 5050 Directed Readings in Healthcare	2 hours

Other Requirements by Option or Track: 18 Credits

Option in Healthcare Leadership and Entrepreneurship (creative component)

HCA 5163 Healthcare Accounting and Auditing	3 hours
HCA 5113 Entrepreneurship and the Health Sciences	3 hours
HCA 5043 Organizational Leadership in Healthcare	3 hours
HCA 5023 Human Resources in Healthcare and Public Administration	3 hours
Elective courses as directed or approved by the advisor	8 credits

Option in Administration (Creative Component)

HCA 5103 Intro to Global Health	3 hours
HCA 5063 Healthcare Compliance	3 hours
HCA 5083 Healthcare Finance	3 hours
HCA 5023 Human Resources in Healthcare and Public Administration	3 hours
Elective courses as directed or approved by the advisor	8 credits

Option in Healthcare Leadership and Entrepreneurship (Thesis)

HCA 5163 Healthcare Accounting and Auditing	3 hours
HCA 5113 Entrepreneurship and the Health Sciences	3 hours
HCA 5023 Human Resources in Healthcare and Public Administration	3 hours
HCA 5000 Research and Thesis	6 hours
Elective courses as directed or approved by the advisor	5 credits

Option in Administration (Thesis)

HCA 5103 Intro to Global Health	3 hours
HCA 5063 Healthcare Compliance	3 hours
HCA 5023 Human Resources in Healthcare and Public Administration	3 hours
HCA 5000 Research and Thesis	6 hours
Elective courses as directed or approved by the advisor	5 credits

- **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 Certificate in Health Care Administration

The Graduate Certificate in Healthcare Administration requires 12 credit hours which includes specialized topics within chosen option.

Administration Option:

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

Healthcare Finance Option:

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

Leadership and Organizational Development in Healthcare Option:

HCA 5043 Organizational Leadership and Development in Healthcare	3 hours
HCA 5093 Leadership Methods and Styles in Healthcare	3 hours
HCA 5233 Advanced Leadership Methods and Styles in Healthcare	3 hours
HCA 5223 Ethics in Health Care Administration	3 hours

Global Health Option:

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.
    - 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://www.applyweb.com/oksugrad/.
            - 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 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://health.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, 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 credit hour
• 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 (health.okstate.edu/library). This list may be updated throughout the year.

Course	Textbook Title	ISBN	Retail Price
HCA 5033 Legal Issues in Health Care Administration	Legal and Ethical Issues for Health Professionals, 4th Ed. Pozgar, et. al. Jones and Bartlett.	978-1284036794	$124
HCA 5043 Organizational Leadership and Development in Health Care	Practical Guide to Aligning Leaders and Followers, 1st Ed. Atchison, et. al. Health Administration Press.	978-1567932164	$68
HCA 5093 Leadership Methods and Styles in Healthcare	Exceptional Leadership: 16 Critical Competencies for Healthcare Executives, 2nd Ed. Dye & Garman. Health Administration Press.	978-156793252.2	$78
HCA 5103 Intro to Global Health	Introduction to Global Health, 2nd Ed. Jacobsen, et. al. Jones and Bartlett.	978-0-7637-5159-3	$100
HCA 5113 Entrepreneurship and the Health Sciences	Entrepreneurship – Theory, Process, Practice, 8th Ed. Kuratko, D. Southwestern College Pub.	978-0324590913	$222
HCA 5123 (Fall) Survey of Research and Evaluation in Health Care	Research Design: Qualitative, Quantitative, and Mixed Methods Approaches, 3rd Ed. Creswell, J. Sage Publications.	978-1412965576	$70
HCA 5123 (Summer) Survey of Research and Evaluation in Health Care	Publication Manual of the American Psychological Association, 6th Ed. (2nd Printing). American Psychological Association.	978-1433805615	$30
HCA 5143 Relief and Development in Global Health	Going Global: Transforming Relief and Development NGOs. Kumarian Press.	978-1565491359	$70

XI. 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/Illness 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 injures 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

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://www.applyweb.com/oksugrad/. 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://health.okstate.edu/site-files/docs/at/consent-possession-medical-records_2015.pdf
- Criminal Background Check: https://health.okstate.edu/site-files/docs/at/criminal-background-check-2015.pdf
- OSU ATP Health History: https://health.okstate.edu/site-files/docs/at/medical-history-exam.pdf
- Technical Standards and Assumption of Risk: https://health.okstate.edu/site-files/docs/at/techincal-standards-admissions-2015.pdf
- Observation Hours Report: https://health.okstate.edu/site-files/docs/at/at_observation_hours.pdf

- OSHA Respirator Medical Evaluation Questionnaire: https://health.okstate.edu/site-files/docs/at/osu-medical-questionaire-resp-qust.pdf

Supplemental documents can be found at https://health.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: January 15th

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 January 15th. 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 5313 Clinical Evaluation and Diagnosis of General Medical Conditions
MAT 5412 Radiography Evaluation and Assessment
MAT 5302 Practicum II

Summer II
MAT 5483 Pathology and Pharmacology in Sports Medicine
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 5502 Practicum IV

Spring II

MAT 5000 Capstone
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 (health.okstate.edu/library). This list may be updated throughout the year.

Course	Textbook Title	ISBN	Retail Price
BIOM 5000	Athletic Training Exam Review: A Student Guide to Success, 5th Ed. Van Ost, L., et. al. Slack. 2013.	978-1617116131	$251
MAT 5103 Emergency Management in Athletic Healthcare	Emergency Response Management for Athletic Trainers, 2nd Ed. Miller and Berry. Lippincott Williams & Wilkins. 2016.	978-1496328137	$100
BIOM 5122 Clinical Anatomy for Allied Health	Clinically Oriented Anatomy, 7th Ed. Moore, K., et. al. Lippincott Williams & Wilkins. 2013.	978-1451119459	$160
	Netter's Concise Radiologic Anatomy, 1st Ed. Weber, E., et. al. Saunders Elsevier. 2009.	978-1416056195	$67
MAT 5183 Injury Prevention	Orthopedic Taping, Wrapping, Bracing & Padding, 2nd Ed. Beam, J. Davis Company. 2012.	978-0803625587	$28
	Principles of Athletic Training: A Competency-Based Approach, 15th Ed. Arnheim, D., et. al. McGraw-Hill Madison. 2014.	978-0078022647	$170
MAT 5223 Therapeutic Modalities	Therapeutic Modalities: The Art and Science, 2nd Ed. Knight, D. and Draper, D. Wolters Kluwer. 2013.	978-1451102949	$60
	Therapeutic Electrophysical Agents: Evidence Behind Practice, 3rd Ed. Belanger, A. Wolters Kluwer. 2010.	978-1451182743	$55
MAT 5233 Clinical Evaluation and Diagnosis of the Lower Extremity	Examination of Orthopedic and Athletic Injuries, 3rd Ed. Starkey, C. et. al. F.A. Davis Company. 2010.	978-0803617209	$39
	Physical Examination of the Spine and Extremities. Hoppenfeld, S., et. al. Upper Saddle River: Prentice Hall. 1976.	978-0838578537	$80
	Trail Guide to the Body, 4th Ed. Biel, A. Books of Discovery. 2010.	978-0982663400	$83
MAT 5243 Therapeutic Exercise of the Lower Extremity	Examination of Orthopedic and Athletic Injuries, 3rd Ed. Starkey, C. et. al. F.A. Davis Company. 2010.	978-0803617209	$39
	Physical Examination of the Spine and Extremities. Hoppenfeld, S., et. al. Upper Saddle River: Prentice Hall. 1976.	978-0838578537	$80
	Trail Guide to the Body, 4th Ed. Biel, A. Books of Discovery. 2010.	978-0982663400	$83
MAT 5313	Clinical Pathology for Athletic Trainers, 3rd Ed. O'Connor & Fincher. Slack.	978-1617110917	$72

Clinical Evaluation and Diagnosis of General Medical Conditions			
MAT 5333 Clinical Evaluation and Diagnosis of the Upper Extremity	Examination of Orthopedic & Athletic Injuries, 4th Ed. Starkey & Ryan. Davis Plus. 2015.	978-0-8036-3918-8	$60
	Physical Examination of the Spine and Extremities. Hoppenfeld, S., et. al. Upper Saddle River: Prentice Hall. 1976.	978-0838578537	$80
	Trail Guide to the Body, 4th Ed. Biel, A. Books of Discovery. 2010.	978-0982663400	$83
MAT 5343 Therapeutic Exercise of the Upper Extremity	Clinical Orthopaedic Rehabilitation, 3rd Ed. Brotzman, S. and Wilk, K. Mosby Elsevier Publishing. 2011.	978-0323055901	$250
	Manual Mobilization of the Joints. Joint Examination and Basic Treatment, 7th Ed. Kaltenborn, E. Norli. 2011.	9788270540709	$69
MAT 5443 Clinical Diagnosis, Evaluation and Therapeutic Exercise of the Head and Spine	Clinical Orthopaedic Rehabilitation, 3rd Ed. Brotzman, S. and Wilk, K. Mosby Elsevier Publishing. 2011.	978-0323055901	$250
	Examination of Orthopedic & Athletic Injuries, 4th Ed. Starkey & Ryan. Davis Plus. 2015.	978-0-8036-3918-8	$60
	Spinal Manual Therapy: An Introduction to Soft Tissue Mobilization, Spinal Manipulation, Therapeutic and Home Exercises, 2nd Ed. Makofsky, H. Slack. 2010.	978-1-55642-882-1	$67
	Cram Session in Evaluation of Sports Concussion: A Handbook for Students & Clinician, 1st Ed. Hunt, T. Slack. 2013.	978-1-61711-066-5	$37
MAT 5483 Pathology and Pharmacology in Sports Medicine	Principles of Pharmacology for Athletic Trainers, 3rd Ed. Houglum, J., et. al. Slack. 2016.	978-1-61711-929-3	$52
MAT 5553 Research Methods in Athletic Healthcare	Evidence-Based Practice in Sport and Exercise: A Practitioner's Guide to Using Research, 1st Ed. Arnold, B., et. al. F.A. Davis Company. 2017.	978-0-8036-4028-3	$40
	How to Read a Paper, 4th Ed. Greenhalgh, T. Wiley-Blackwell. 2010.	978-1444334364	$20
MAT 5573 Athletic Healthcare Administration	Management Strategies in Athletic Training, 4th Ed. Ray, R. Human Kinetrics. 2011.	978-0736077385	$38
MAT 5583 Psychosocial Strategies in Athletic Healthcare	The Athletic Trainer's Guide to Psychosocial Intervention and Referral, 1st Ed. Mensch, J. and Miller, G. Slack. 2007.	978-1556427336	$80

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 credit hour
• Student Health Fee	$ 64.00 per semester

Program Costs for ATS

(The following are averages based on previous years)

Books (per semester)	$300
Housing [$250.00 – $550.00 per month (approximately $400.00 * 24 months)]	$9,600
Hepatitis B Series (3 shots at $85 each)	$255
Physical and Immunizations	$100
Yearly TB and Flu Shots	$50
Clothing (annually)	$150
CPR Certification	$19 - $27
Liability Insurance	$30 - $80 per year
Background Check	$50
Oklahoma Apprentice Athletic Trainer License	$25 initial, $10 annual renewal
Athletic Training Kit	$125

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

Sports Medicine Club Dues (student organization, membership/participation is voluntary)	$25
Miscellaneous Items	$10 - $100
Student NATA Membership	$80

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 measures 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 at 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. Grievances 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://health.okstate.edu/athletic-training/index.html) and in the program handbook (https://health.okstate.edu/site-files/docs/at/at_mat_handbook.pdf).

I. Contact Information

If you have any questions or need additional information please see our website at https://health.okstate.edu/athletic-training/index.html or contact us at:

Jennifer Volberding PhD, ATC
Athletic Training Program Director
OSU Center for Health Sciences
1111 W 17th St.
Tulsa, OK 74107

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
V. Burns Hargis—President, Oklahoma State University and OSU System
Kayse M. Shrum, D.O.—President, OSU Center for Health Sciences and Dean, OSU College of Osteopathic Medicine

XIII. Center Personnel

Administration/Professional Staff
Kayse M. Shrum, D.O., President, OSU Center for Health Sciences and Dean, 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
Dennis E. Blankenship, D.O., Interim Senior Associate Dean of Academic Affairs
Jeffrey S. Stroup, Pharm.D., R.Ph., Interim Provost, Interim Senior Associate Dean of Operations, Interim Vice President for Strategy, Professor of Medicine
Johnny R. Stephens, Pharm.D., Senior Vice President, Chief Operating Officer, Professor of Medicine
Charles J. Amlaner, Jr., Ph.D., Vice President of Research
Eric J. Polak, M.B.A., Vice President for Administration and Finance and Chief Financial Officer for Medical Practice Plan
Anhna Vuong, M.S., Vice President of External Affairs

Ashley L Adkins, Assistant Vice President of Operations
Jenny J. Alexopulos, D.O., Director of Clinical Learning Environmental Review at OSUMC and Medical Director of OSU Physicians
Robert W. Allen, Ph.D., Director of Forensic Sciences Graduate Program
Ashlei L. Ashmore, B.S., Director of Operations
Angela Bacon, M.S., Interim Assistant Dean of Student Life
Damon L. Baker, D.O., Chair, Department of Internal Medicine and Chief Medical Officer

Jason W. Beaman, D.O., Chair, Department of Psychiatry and Behavioral Sciences
Bruce A. Benjamin, Ph.D., Vice Provost for Graduate Programs
Natasha Bray, D.O., Associate Dean of Academic Affairs/Accreditation
Rhonda L. Casey, D.O., Interim Associate Dean of Global Health
Aaron T. Christensen, M.S., Director of Graduate Studies
Lora D. Cotton, D.O., Interim Chair, Department of Family Medicine and OSU CHS Statewide Family Medicine Program Director
Julie Croff, Ph.D., Executive Director, Center for Wellness and Recovery
Kathleen Curtis, Ph.D., Chair of the Department of Pharmacology and Physiology
Brenda Davidson, Associate Designated Institutional Officer ACGME
Randall L. Davis, Ph.D., Interim Associate Dean and Director of Biomedical Sciences Graduate Programs
Brian C. Diener, D.O., Vice Chair, Department of Surgery
Kelly Dunn, M.D., Medical Director of Resident and Student Wellness
Robin R. Dyer, D.O., Associate Dean for Academic Affairs and Chair of the Department of Osteopathic Manipulative Medicine
William S. Eddy, D.O., Director of Continuing Medical Education
Amanda G. Foster, D.O., Interim Chair, Department of Pediatrics
Johnathan G. Franklin, Ed,D., Director of Student Statistics for Academic Affairs
John J. Frucci, III, Ed.D., Director of The Center for Improvised Explosives (IMPEX) and MSFS AEI Program Director
Lance Frye, M.D., Chair, Department of Obstetrics and Gynecology
Dean R. Fullingim, D.O., Chair, Department of Radiology
Jon Goodell, M.A., AHIP, Director, OSU Medical Library
Ty D. Griffith, M.B.A., Director of Clinical Integration and Integrity
Jeffrey B. Hackler, J.D., M.B.A., Assistant Dean for Enrollment Management, Clinical Assistant Professor of Rural Health
Melani L. Hamilton, B.A., Managing Director, Marketing and Communications
Jacqulyn S. Hensley, Director of American Indians in Medicine and Science
James D. Hess, Ed.D., Chair and Director, OSU School of Healthcare Administration
Heidi O. Holmes, Interim Assistant Vice President for Information Technology, Director of Health Information Technology and Chief Information Officer for OSUMC
Kevin L. Holmes, M.Ed., Assistant Vice President for Budget and Finance
Amber N. Hood, M.S., Director of Regulatory Compliance and Research Ethics
Shelley D. Houk, B.S., Director of Simulation Center
Barrett M. Hunter, J.D., Director of Risk Management and Compliance
Tara M. Jackson, M.H.A., Director of Project ECHO
Tvli S. Jacob, M.P.H., Director of Research Dissemination and Implementation
Valarie Jernigan, Dr.P.H., Executive Director of the Center for Indigenous Research and Policy
Joseph R. Johnson, D.O., Associate Dean for Extension for Community Healthcare Outcomes
Corie Kaiser, M.S., Director of Oklahoma State Office of Rural Health
Cynthia D. Lamon, Director
Regina Lewis, D.O., Medical Director of Women’s Center
Donald P. Lowther, Director of Fiscal Affairs and Controller
Daniel J. Marangoni, Ph.D., Director of Research Operations
Mathew L. Maxey, Director of Health Access Network
Andrea E. McEachern, D.O., OSU-CHS Family Medicine Associate Program Director
Bavette Miller, Ph.D., Assistant Professor, Health Care Administration
Jane K. Pritchard, B.S., Director of Quality for Forensic Sciences
Paul B. Rock, D.O., Medical Director of CAHM
Brian D. Sandersfield, B.S., Director of Joint Program and Secure Research Operations
Charles G. Sanny, Ph.D., Chair, Department of Biochemistry and Microbiology
Gary L. Slick, D.O., Medical Director of OMECO, Designated Institutional Officer ACGME
Kent S. Smith, Ph.D., Associate Dean for Office for the Advancement of American Indians in Medicine and Science
Mousumi Som, D.O., Vice Chair, Department of Medicine
Susan K. Steele, D.O., Chair, Department of Medical Education
Robert M. Stover, M.S., Executive Director OSU Medicine
Tori E. Taniguchi, M.P.H., Director of Research Epidemiology and Data
Tina M. Tappana, M.S., Director of Human Resources
Bria L. Taylor, Director of Outreach and Special Events
Mark H. Thai, D.O., Vice Chair, Department of Osteopathic Manipulative Medicine
Michael L. Thomas, M.D., Chair, Department of Surgery, Physician Executive of Health Partners of Oklahoma

Christopher C. Thurman, D.O., Associate Dean for Clinical Education
Darin J. Tyson, Director of Special Events
Lesley E. VanVolkinburg, M.S., OMECO Executive Director
JuLee Wells, Director of Recruitment
Denna L. Wheeler, Ph.D., Interim Assistant to Dean for Operation of Center for Rural Health, Interim Section Chief for Rural Health
Nedra Wilson, Ph.D., Interim Chair of Anatomy and Cell Biology
Mark Woodring, Dr.P.H., Assistant Dean of Rural Health
Jennifer L. Volberding, Ph.D. PLOSKAM, Interim Chair and Director of Athletic Training
Lindsey R. Yoder, M.S., Director of Admissions
LeRoy E. Young, D.O., Senior Associate Dean for Clinical Affairs – Oklahoma City
Randel L. Zabel, Ph.D., Director of Institutional Research

XIV. Faculty

ANATOMY AND CELL BIOLOGY

Holly W. Ballard Ph.D., Associate Professor of Anatomy and Cell Biology
Paul M. Gignac, Ph.D., Associate Professor of Anatomy and Cell Biology
William D. Meek, Ph.D., Professor of Anatomy and Cell Biology
Kenneth E. Miller, Ph.D., Professor of Anatomy and Cell Biology
Kent S. Smith, Ph.D., Professor of Anatomy and Cell Biology and Associate Dean for Office for the Advancement of American Indians in Medicine and Science
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

ATHLETIC TRAINING

Jennifer L. Volberding, Ph.D., Interim Chair and Program Director of Athletic Training and Assistant Professor
Matthew S. O'Brien, Ph.D., Associate Professor and Clinical Coordinator
Aric J. Warren, Ed.D., ATC, LAT, CSCS, CES, Professor

BIOCHEMISTRY AND MICROBIOLOGY

Robert W. Allen, Ph.D., Professor of Biochemistry, Director of Forensic Sciences Graduate Program
Martin W. Banschbach, Ph.D., Professor of Biochemistry
Earl L. Blewett, Ph.D., Associate Professor of Microbiology
Franklin R. Champlin, Ph.D., Associate Professor of Microbiology
Rashmi Kaul, Ph.D., Professor of Microbiology
Gerwald A. Köehler, Ph.D., Professor of Microbiology
Charles G. Sanny, Ph.D., Professor of Biochemistry and Chair of Biochemistry and Microbiology

EMERGENCY MEDICINE

Bobby R. Abernathy, D.O., Clinical Assistant Professor of Emergency Medicine
Kenneth Argo, D.O., Clinical Assistant Professor of Emergency Medicine
Yakiji Bailey, D.O., Clinical Assistant Professor of Emergency Medicine
Dennis E. Blankenship, D.O., Interim Senior Associate Dean of Academic Affairs, Clinical Professor of Emergency Medicine
Mark E. Blubaugh, D.O., Clinical Assistant Professor of Emergency Medicine, Director of Ultrasound Program
Michael T. Cannon, D.O., Clinical Associate Professor of Emergency Medicine
Cass Cherry, D.O., Clinical Assistant Professor of Emergency Medicine
Linden S. Cowley, D.O., Clinical Assistant Professor of Emergency Medicine
Jennifer Eischen Galbraith, D.O., Clinical Associate Professor of Emergency Medicine
Anastasia C. Fisher, D.O., Clinical Assistant Professor of Emergency Medicine
Gavin V. Gardner, D.O., Clinical Assistant Professor of Emergency Medicine and Clinical Clerkship Director
David M. Gearhart, D.O., Clinical Associate Professor of Emergency Medicine and EMS Director
Charles E. Harris, D.O., Clinical Assistant Professor of Emergency Medicine
Megan M. Johanning, D.O., Clinical Assistant Professor of Emergency Medicine
Aaron Q. Lane, D.O., Interim Chair of the Department of Emergency Medicine, Clinical Associate Professor of Emergency Medicine, and Director of Residency Program
Mary K. Moore, D.O., Clinical Assistant Professor of Emergency Medicine
Kelly A. Murray, Pharm.D., Clinical Associate Professor of Emergency Medicine and Research Director
Brie Roepke, D.O., Clinical Assistant Professor of Emergency Medicine
Jonathan Robins, D.O., Clinical Assistant Professor of Emergency Medicine
Michael R. Schiesel, D.O., Clinical Assistant Professor of Emergency Medicine

Zachary P. Spradlin, D.O., Clinical Assistant Professor of Emergency Medicine
Matthew E. Stiger, D.O., Clinical Assistant Professor of Emergency Medicine

FAMILY MEDICINE
Jenny J. Alexopulos, D.O., Professor of Family Medicine, Director of Clinical Learning Environmental Review at OSUMC, Medical Director of OSU Physicians
Amanda D. Carey, Clinical Assistant Professor of Family Medicine
Steffen E. Carey, D.O., Clinical Assistant Professor of Family Medicine
Lora D. Cotton, D.O., Associate Professor, Interim Chair of Family Medicine, OSU CHS Statewide Family Medicine Program Director
Crystal M. David, Pharm.D., Clinical Assistant Professor of Family Medicine
William S. Eddy, D.O., Professor of Family Medicine and Director of Continuing Medical Education
Amanda Gorden Green, DO., Clinical Associate Professor of Family Medicine
Sarah M. Hall, D.O., Assistant Professor of Family Medicine
Erin R. Kratz, D.O., Clinical Assistant Professor of Family Medicine
Regina M. Lewis, D.O., Professor of Family Medicine and Medical Director of Women's Center
Lana D. Myers, D.O., Clinical Assistant Professor of Family Medicine
William J. Pettit, D.O., Professor of Family Medicine, Dean, OSU College of Osteopathic Medicine – Cherokee Nation, Associate Dean for Rural Health
Susan K. Steele, D.O., Clinical Associate Professor of Family Medicine, Chair, Department of Medical Education
Christopher C. Thurman, D.O., Professor of Family Medicine, Associate Dean for Clinical Education
LeRoy E. Young, D.O., Clinical Professor of Family Medicine

FORENSIC SCIENCES
Robert W. Allen, Ph.D., Professor of Biochemistry, Director of Forensic Sciences Graduate Program
John J. Frucci, III, Ed.D., Assistant Professor of Forensic Sciences, Director of The Center for Improvised Explosives (IMPEX), and MSFS AEI Program Director
Ronald R. Thrasher, Ph.D., Professor of Forensic Sciences
Jarrad R. Wagner, Ph.D., Associate Professor of Forensic Sciences

HEALTH CARE ADMINISTRATION
James D. Hess, Ed.D., Chair and Director, OSU School of Healthcare Administration
Anil K. Kaul, M.D., D.D.S., M.P.H., Clinical Professor of Healthcare Administration
Barbara B. Miller, Ph.D., Assistant Professor of Healthcare Administration
Zack C. Varughese, Ph.D., Clinical Professor of Healthcare Administration

INTERNAL MEDICINE
Damon L. Baker, D.O., Chair, Professor of Medicine, Chief Medical Officer for OSU Medical Center
John F. Carabello, D.O., Clinical Assistant Professor of Medicine – Division Cardiology
Christina A. Connel, D.O., Clinical Assistant Professor of Medicine
Katherine D. Cook, D.O., Associate Professor of Medicine
Sharolyn D. Cook, D.O., Clinical Assistant Professor of Medicine
Justin D. Chronister, D.O., Clinical Assistant Professor of Medicine
Stacy Chronister, D.O., Clinical Assistant Professor of Medicine
Jay K. Johnson, D.O., Clinical Associate Professor of Medicine
Steve S. Kim, D.O., Clinical Assistant Professor of Medicine, Internal Medicine – Division of Cardiology
Leonard U. Lacefield, D.O., Clinical Assistant Professor of Medicine
Madhuri J. Lad, D.O., Clinical Assistant Professor of Medicine
Paul B. Rock, Ph.D., Professor of Medicine and Medical Director of CAHM
Gary L. Slick, D.O., Medical Director of OMECO and Professor of Medicine
Mousumi Som, D.O., Vice Chair, Professor of Medicine
Johnny R. Stephens, Pharm.D., Professor of Medicine, Senior Vice President, Chief Operating Officer
Jeffrey S. Stroup, Pharm.D., R.Ph., Professor of Medicine, Interim Senior Associate Dean, Interim Vice President for Strategy
Kaleb T. Veit, D.O., Clinical Assistant Professor of Medicine
Daniel E. Wildes D.O., Clinical Assistant Professor of Medicine, Internal Medicine – Division of Cardiology
D. Matt Wilkett D.O., Clinical Assistant Professor of Medicine, Chief of Cardiology – Division OSUMC
William H. Woods, D.O., Clinical Assistant Professor of Medicine
Shane S. Yamane, M.D., Clinical Assistant Professor of Medicine – Division of Cardiology

MEDICAL EDUCATION

Laurie C. Clark, D.O., Clinical Associate Professor of Family Medicine
Nicole Farrar, D.O., Clinical Assistant Professor of Medical Education
Carrie Gilstrap, D.O., Clinical Associate Professor of Medical Education
Randall Reust, D.O., Clinical Associate Professor of Medical Education
Susan K. Steele, D.O., Clinical Professor, Chair of Department of Medical Education
Nancy S. Van Winkle, Ph.D., Professor of Psychiatry and Behavioral Sciences

OBSTETRICS AND GYNECOLOGY
Corey R. Babb, D.O., Clinical Assistant Professor of Obstetrics and Gynecology
Erin E. Brown, D.O., Clinical Assistant Professor of Obstetrics and Gynecology
Lance T. Frye, M.D., Clinical Professor of Obstetrics and Gynecology and Chair, Department of Obstetrics and Gynecology
Joseph R. Johnson, D.O., Clinical Associate Professor and Associate Dean of ECHO
William D. Po, M.D., Clinical Professor of Obstetrics and Gynecology

OSTEOPATHIC MANIPULATIVE MEDICINE
Stephen R. Barnes, D.O., Clinical Assistant Professor of Osteopathic Manipulative Medicine
Leslie M. Ching, D.O., Clinical Assistant Professor of Osteopathic Manipulative Medicine
Robin R. Dyer, D.O., Professor of Osteopathic Manipulative Medicine, Associate Dean for Academic Affairs, Chair of Osteopathic Manipulative Medicine
Mark H. Thai, D.O., Clinical Associate Professor and Vice Chair of Osteopathic Manipulative Medicine
Jennifer E. Wilson, D.O., Clinical Assistant Professor of Osteopathic Manipulative Medicine

PATHOLOGY
Anthony W. Alfrey, M.D., Associate Professor of Pathology
Eric G. Harp, D.O., Assistant Professor of Pathology
Joseph A. Price, Ph.D., Professor of Pathology

PEDIATRICS
Laura L. Bode, D.O., Clinical Assistant Professor of Pediatrics
Rhonda L. Casey, D.O., Associate Professor of Pediatrics, Interim Associate Dean for Global Health
Shawna R. Seagraves-Duncan, D.O., Associate Professor of Pediatrics
Amanda G. Foster, D.O., Clinical Professor of Pediatrics, Interim Chair of Pediatrics
Colony S. Fugate, D.O., Clinical Assistant Professor of Pediatrics
Whitney L. Latham, D.O., Clinical Associate Professor of Pediatrics
Binh T. Phung, D.O., Clinical Assistant Professor of Pediatrics
Heather Rector, D.O., Clinical Assistant Professor of Pediatrics
Kayse M. Shrum, D.O., President, OSU Center for Health Sciences, Dean, College of Osteopathic Medicine, and Professor of Pediatrics
Jeremy L. Jones, D.O., Clinical Assistant Professor of Pediatrics
Travis D. Campbell, D.O., Clinical Assistant Professor of Pediatrics

PHARMACOLOGY AND PHYSIOLOGY
Bruce A. Benjamin, Ph.D., Vice Provost of OSU Center for Health Sciences, Associate Dean for Biomedical Sciences and Associate Professor of Physiology
J. Thomas Curtis, Ph.D., Associate Professor of Physiology
Kathleen S. Curtis, Ph.D., Chair of Pharmacology and Physiology and Professor of Pharmacology and Physiology
Randall L. Davis, Ph.D., Associate Professor of Pharmacology and Director of Biomedical Sciences Graduate Program
Warren E. Finn, Ph.D., Associate Professor of Physiology
Alexander J. Rouch, Ph.D., Associate Professor of Physiology
Craig W. Stevens, Ph.D., Professor of Pharmacology and Physiology
David R. Wallace, Ph.D., Professor of Pharmacology
Randy S. Wymore, Ph.D., Associate Professor of Pharmacology

PSYCHIATRY AND BEHAVIORAL SCIENCES
Charles J. Amlaner, Jr., Ph.D., Professor of Psychiatry and Behavioral Sciences, Vice President of Research
Jason W. Beaman, D.O., Chair and Clinical Assistant Professor of Psychiatry and Behavioral Sciences
Stephen Brasseux, M.D., Clinical Associate Professor of Psychiatry and Behavioral Sciences
Tessa L. Chesher, D.O., Clinical Associate Professor of Psychiatry and Behavioral Sciences
Sara M. Coffey, D.O., Clinical Assistant Professor of Psychiatry and Behavioral Sciences
Gary R. Denny, D.O., Clinical Assistant Professor of Psychiatry and Behavioral Sciences

Kelly J. Dunn, M.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences, Medical Director of Resident and Student Wellness
Alicia Ford, Ph.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences
Jennifer Hays-Grudo, Ph.D., Professor of Psychiatry and Behavioral Sciences, Director of CIRCA
Samuel G. Martin, M.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences
Anna Mazur, Ph.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences
Sara E. Rich, Ph.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences
David B. Ross, M.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences
Vivian M. Stevens, Ph.D., Professor of Psychiatry and Behavioral Sciences
Matt Vassar, Ph.D., Clinical Assistant Professor of Psychiatry and Behavioral Sciences, Manager Office of Institutional Research and Analytics

RADIOLOGY
Dean R. Fullingim, D.O., Clinical Professor, Endowed Professorship and Chair of Radiology

RURAL HEALTH
Natasha Bray, D.O., Clinical Associate Professor of Rural Health, Associate Dean of Academic Affairs/Accreditation
Julie Croff, Ph.D., Associate Professor of Rural Health, Executive Director of the Center for Wellness and Recovery
Jeffrey B. Hackler, J.D., M.B.A., Clinical Assistant Professor of Rural Health, Assistant Dean for Enrollment Management
Amy Harrison, PA-C, Clinical Assistant Professor of Rural Health
Randolph D. Hubach, Ph.D., Associate Professor of Rural Health, Associate Director of Masters of Public Health
Valarie Jernigan, Dr.P.H., Professor of Rural Health and Executive Director Center for Indigenous Research and Policy
Duane G. Koehler, D.O., Assistant to the Dean of Rural Health, Clinical Assistant Professor of Rural Health
Andrea E. McEachern, D.O., Clinical Associate Professor of Rural Health
Denna L. Wheeler, Ph.D., Clinical Assistant Professor of Rural Health, Interim Associate to Dean for Operation of Center for Rural Health, Interim Section Chief for Rural Health

SURGERY
Adam D. Bradley, D.O., Clinical Assistant Professor of Surgery
Brian C. Diener, D.O., Vice Chair and Professor of Surgery
Hal H. Robbins, D.O., Clinical Associate Professor of Surgery
Michael L. Thomas, M.D., Chair and Clinical Assistant Professor of Surgery, Interim Physician Executive of HPOK
Nathan S. Roberts, D.O., Clinical Assistant Professor of Surgery

Rev: 12/15
Rev: 6/16
Rev: 7/17
Rev: 9/17
Rev: 11/17
Rev: 12/17
Rev: 8/18
Rev: 6/19