Mission
OSU Center for Health Sciences educates and trains osteopathic physicians, research scientists and other health care professionals with emphasis on serving rural and underserved Oklahoma.

Vision
OSU 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

Degree Programs
- D.O., Doctor of Osteopathic Medicine
- D.O./Ph.D. in Biomedical Sciences
- D.O./M.S. in Biomedical Sciences
- D.O./M.B.A. (Master of Business Administration)
- D.O./H.C.A. (Health Care Administration)
- D.O./M.P.H. (Master of Public Health)
- Ph.D. in Biomedical Sciences
- M.S. in Biomedical Sciences
- M.S. in Forensic Sciences
- M.S. in Interdisciplinary Sciences - Health Care Administration
- MAT in Athletic Training
Why OSU Center for Health Sciences?

Campus and Facilities ...............4
Student Life ...........................6

Programs

Admissions Information ......12
■ D.O. Program .............13
■ Bridge Program ..........18
■ Educational Costs and
  Financial Aid ..........22
■ Tuition and Fees ..........22
■ Premedical Student
  Checklist .................23

Graduate Programs .............26
■ D.O./M.B.A. .............27
■ D.O./H.C.A. .............29
■ D.O./M.P.H. .............30
■ D.O./M.S. .................32
■ D.O./Ph.D. .................33
■ M.S./Ph.D. Biomedical
  Sciences ..................35
■ M.S. Forensic
  Sciences ..................41
■ MAT/Athletic Training ...48
■ M.S./I.S. Health Care
  Administration ...........51

The Oklahoma State University Center for Health Sciences prohibits discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their age, race, color, religion, sex, sexual orientation, gender, gender identity, national origin or ethnicity.
Our class size
We keep our class sizes small to foster an environment of personal attention and strong relationships with faculty and staff. This allows for one-on-one learning interactions with faculty, physician mentors and other students.

Our technology
We integrate state of the art technology into student curriculum through online learning resources, patient simulators, and our mobile telemedicine clinic.

Our student life
Tulsa is a great place to live, work and attend school. As a student you have the opportunity to be involved in the many student organizations tailored to your specific goals and hobbies. Our student ambassadors are trained to help you navigate campus. In addition, we are one of the few medical schools in the nation offering stress management skills programming for students, by students.

Our commitment to community
From local health fairs to an active adopt-a-school program, getting involved in the community is part of the OSU culture.

Our diversity
The world is your patient. OSU Medicine prepares you by providing diversity training and awareness in all aspects of academics and activities. Our students will have the skills necessary to educate and appreciate patients from diverse backgrounds.

Our graduates
From the Medical Center of Southeastern Oklahoma in Durant to Johns Hopkins in Baltimore, Maryland, our students can seek residencies across the country practicing any specialty they choose.

I have always enjoyed serving the public and after being a police officer for Tulsa Police Department for 12 years, I felt an urgency to serve in a different capacity. I chose to pursue a second career in medicine. As a non-traditional student I looked at universities that embraced individuals with similar backgrounds and OSU College of Osteopathic Medicine was just that university. I feel that the administrative staff is very supportive of their students and the professors push the students toward excellence regardless of previous backgrounds.

- Ricardo Aguilar, D.O.
  Class of 2012
Here at OSU we have what we call our OSU family. This includes not only the students, but the faculty and staff as well. Students share notes and study guides, but most of all, we rely on each other for support and encouragement. The professors and staff have a big impact on our student body as well. They open their doors for unconditional knowledge, encouragement, and advice. They go above and beyond while helping us exceed our individual goals. Everyone at OSU-COM is committed to each of the students’ success and happiness, just as much as we are to ourselves. I can truly say that OSU-COM is my second family. The family atmosphere is what makes attending this school such a unique experience.

– Nikki Warren, D.O.  
Class of 2015
Our facilities

The OSU Center for Health Sciences campus is located on the west bank of the Arkansas River, minutes from downtown Tulsa. The main campus is housed in a complex on 16 acres. The complex consists of a state-of-the-art hospital simulation center, classrooms, biomedical and clinical science teaching and research laboratories, clinical simulation labs, offices, lecture halls, break-out rooms, a medical bookstore and a medical library. By late 2017, the campus will include the A.R. and Marylouise Tandy Medical Academic Building with expanded hospital simulation and clinical skills labs, a tiered lecture hall, conference rooms and a new osteopathic manipulative medicine lab.

The Tulsa Police Department forensic laboratory is located on the campus in conjunction with the Forensic Sciences graduate program, one of only two facilities like it in the nation. In addition, an historic city fire station was purchased for conversion to a cutting-edge crime scene investigation laboratory for students in the Forensic Sciences graduate program. The Phoenix Building across from campus houses the Oklahoma Rural Health Policy and Research Center. Thirteen OSU Physicians clinics are located within one mile of the main campus, serving as both teaching clinics for students and a health care resource for the community.

Our city

Tulsa is a city that feels Southern, Eastern and Western all at once. You will enjoy its cosmopolitan flavor and small-town friendliness. It is big enough to have everything you need, but small enough to make you feel right at home.
Student-centered philosophy

The heart of the school is our students. OSU’s student-centered philosophy allows faculty and staff to get to know students and to provide a supportive, caring environment where future physicians can freely explore their interests. The outstanding faculty, researchers and other professionals set high standards that inspire and motivate.

We do not forget that our students have lives, and loved ones, either. The Student Advocate Association is specifically designed to assist and support your family with its needs. There is even a playgroup for the kids.

Diversity training

As a physician, you will be exposed to all facets of society, and key to understanding diversity is being exposed to it. At OSU, you will learn that the world is your patient. You will learn about other cultures through formal classes, and through workshops, student organizations and community service. Whether you choose a career in a rural setting, a bustling city or an emerging nation, diversity training helps you to better serve all patients.

– Jake Whitener, D.O.  
Class of 2015
Students have an active voice

Through the Student Senate, clubs and committees, students can raise issues and work with administrators, faculty and staff to suggest improvements and learn to become more effective leaders. On the fun side, helping plan the annual Holiday Ball, taking part in the annual faculty-student softball game or organizing the Osteopathic Run all give students a chance to be active, contributing members of the OSU family.

Leadership opportunities

Students do not just become physicians, they become leaders in many areas, and should have the ability to communicate with diverse audiences. Educating the whole physician and providing leadership opportunities is an important part of our program and our graduates will have a chance to learn how to be articulate advocates for their patients and for their profession. Students can serve as class or club officers (on campus and national levels), become student ambassadors to the school and the community, and actively work with the Oklahoma Osteopathic Association and other professional groups to hone their leadership and professional skills.
The world is your patient.

Real experience

Several health fairs each year give student doctors the opportunity to become familiar with providing health care, while helping others. A local nurses’ clinic at a homeless shelter, a school/community health fair, or travel to a small community for a day of screenings all provide the “hands-on” feel of what being a health care provider is about.

Community service focused

Getting a feel for how a community works and what it needs requires being involved, and involvement is the operative word for our community service offerings. Opportunities for leadership abound through nearly two dozen student organizations. Students have opportunities to collect books for young readers, serve as mentors at our adopted school, gather toys for holiday giving and help at health fairs for underserved communities both in Tulsa and in smaller communities.

One of the reasons I chose OSU-COM is their students’ commitment to community service. I was very involved in my local community during my undergraduate education and I wanted to continue my involvement as a medical student. OSU-COM provides both an outstanding education as well as opportunities to serve underserved populations through events such as health fairs, mini-med school, helping in local clinics, and so much more. Serving the community helps me practice the skills that I have learned and educate those around me about their health. By doing those things, it reminds me of why I wanted to become a physician and encourages me to continue to pursue excellence in my education.

– Keyaria Gray, D.O. Class of 2013
Residency Requirements

Preference is given to applicants from Oklahoma. Non-U.S. citizens who do not have a permanent resident visa at the time of application cannot be considered for admission. 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 students: A non-independent student must have at least one parent, stepparent, or court-appointed guardian who is an Oklahoma resident. Additionally, this individual must have claimed the student as a dependent on his/her federal income tax return for the previous year.

Independent students: 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 12 continuous months prior to matriculation.

Minimum Required Coursework

At the time of entry, the applicant must have completed:

- 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.
- Satisfactory completion of the following courses, including laboratory, with no grade below “C” (2.0 on 4.0 scale):
  - Course requirements
    - English .................................. 6 semester hours
    - Biology .................................. 8 semester hours
    - Physics .................................. 8 semester hours
    - General Chemistry .................. 8 semester hours
    - Organic Chemistry ................. 8 semester hours

- Satisfactory completion of at least one upper division (3000-4000 level) science course (3-5 courses strongly preferred), with no grade below “C” (2.0 on a 4.0 scale). Examples include but are not limited to:
  - Biochemistry
  - Human or Comparative Anatomy*
  - Microbiology or Molecular Biology
  - Histology*
  - Embryology
  - Immunology
  - Physiology
  - Genetics
  *Preferred course

At the time of application, the applicant must have at minimum:

- Overall GPA of 3.0 (on a 4.0 scale)
- Minimum of 492 on MCAT*
- Pre-professional science GPA of at least 2.75 (on a 4.0 scale)

*Effective with the 2016-2017 admissions cycle, only the new MCAT will be accepted. MCAT must be taken within the last three years prior to application.

OSU-CHS institutional research indicates that students with 4 or more upper division science courses, including lab, are better prepared for the medical school curriculum. Preference will be given to students who have demonstrated preparation for academic success in medical school.

Timeline and Fees

Begin application process June 1, the year before planned matriculation.

- June 1 – AACOMAS starts processing applications
- October – Interviews begin
- February – AACOMAS application deadline; fee $195
- March – Secondary application/materials deadline; fee $65
- Interviews are conducted October through April
Four Step Application Process

These steps are in a recommended order. All applicants are welcome to submit the secondary application and letters of recommendation before the AACOMAS application is sent to the institution.

STEP ONE – AACOMAS Application

- Apply online at: www.aacom.org
  - Please allow 4-6 weeks for AACOMAS to process a complete application to OSU Medicine
  - Complete applications include all undergraduate transcripts
- AACOMAS deadline February, the year of matriculation
- AACOMAS application fee $195
- Contact information:
  American Association of Colleges of Osteopathic Medicine Application Service
  5550 Friendship Blvd., Suite 310
  Chevy Chase, Md. 20815-7231
  301-968-4100
  www.aacom.org

STEP TWO – Secondary Application

- Secondary application deadline March 30, the year of matriculation
- Secondary application fee $65
- OSU-COM sends Secondary Applications to all applicants upon receiving their verified AACOMAS application.
- Send application to:
  Admissions Office
  OSU Center for Health Sciences
  College of Osteopathic Medicine
  1111 W. 17th St.
  Tulsa, Okla. 74107-1898

The educational environment at OSU-COM has fostered some of the top osteopathic physicians in the country. A unique family atmosphere allows students to work together instead of against one another to enhance the learning experience. With caring faculty to guide the way, the academic rigor becomes an exciting journey towards the future. Besides being an outstanding academic institution, the school’s strong emphasis on the whole person has led its students to become some of the most generous and caring physicians in practice. With thousands of hours of volunteering and mentoring in the community, OSU-COM students are able to complete the “whole” educational experience.

- Mark Keuchel, D.O.
  Class of 2013
STEP THREE – Letters of Recommendation

Letters should be sent directly to OSU Center for Health Sciences from the evaluator or can be sent via Liaison, Interfolio or VirtualEvals. The student may choose between two tracks:

- **Track 1**
  - One letter from a college or university pre-professional/pre-med committee
  - One letter from an osteopathic physician (D.O.)

- **Track 2**
  - Three letters preferably from faculty (two science and one non-science faculty)
  - One letter from an osteopathic physician (D.O.)

STEP FOUR – Personal Interview

All on-campus interviews with the applicant interview committee are by invitation only and are mandatory for further consideration. The following information must be on file before an interview is considered:

- MCAT scores
- Completed AACOMAS application
- Completed secondary application
- One D.O. letter of recommendation
- Pre-professional committee letter of recommendation OR three letters of recommendation from faculty

What Makes a Competitive Applicant?

- GPA of 3.6 and above
- Clinical experience and community involvement experience, e.g., physician shadowing, medical field hands-on experience, medical certifications, community service
- Recent upper-division science coursework (3000-4000 level) with laboratory taken within previous 12 months (3-5 courses strongly preferred)
- Early application
Admissions Options

Early Admissions Programs

The Oklahoma State University College of Osteopathic Medicine seeks to admit students who desire to become primary care physicians in rural and underserved Oklahoma. The Rural and Underserved Primary Care Early Admissions Program allows students to complete pre-doctoral training in seven years. The early admissions program provides an academic plan for students to complete at the following universities:

- Oklahoma State University
  - College of Arts and Sciences
  - College of Agricultural Sciences and Natural Resources
- East Central University
- Southeastern Oklahoma State University
- Northeastern State University
- University of Central Oklahoma
- Southwestern Oklahoma State University

Utilizing an approved academic plan at one of these universities, students would complete three years at one of the universities listed above, 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 and underserved osteopathic medical track to graduate with a Doctor of Osteopathic Medicine (D.O.) degree. For more information on these programs, please visit our website: www.healthsciences.okstate.edu/com/admissions/options.php

Early Assurance Programs

Through Early Assurance Programs, 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. Students meeting the requirements described in the programs below are granted admission to the College of Osteopathic Medicine provided they receive satisfactory scores on the qualitative portion of the admissions process. For these programs, students will typically complete four years of undergraduate coursework and then enter into the four year medical school program.

- Oklahoma State University Honors College
- Oral Roberts University
- University of Central Oklahoma

More information on these programs can be found on our website: www.healthsciences.okstate.edu/com/admissions/options.php
Rural Medical Track

The Rural Medical Track (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. Beginning with a rural physician shadowing experience after 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. 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.

RMT Curriculum at a Glance

Year One
- Summer Rural Externship

Year Two
- Rural Focus Week
- Rural Research Project

Year Three
- Didactic Weeks
- Rural Clinical Core Rotation
- Rural Clinic Rotation
- Community Clinic Rotation
- Elective on Vacation

Year Four
- Community Hospital 1 & 2
- Sub-Internship 1 & 2
- Sub-Internship 3 (optional)
- Specialty Selectives 1-3
- Specialty Selectives 4 (optional)
- Elective or Vacation
- 2-week Electives 1-3 (optional)

*Items in orange text are completed by both traditional and RMT students.
Bridge Program

Overview

The objective of the Bridge Program is to promote entry into the osteopathic medical profession of high-potential students who come from disadvantaged or medically underrepresented backgrounds or are pursuing medicine as a second career. Students admitted to this program will complete a five-year curriculum en route to the Doctor of Osteopathic Medicine degree. The first year of the curriculum, known as the Bridge Year, incorporates summer academic preparation and focused coursework in the biomedical sciences. Fall semester courses follow the traditional medical school curriculum at a reduced course load; second semester courses provide a focused plan of study unique to the Bridge curriculum, further providing foundational training in the medical sciences. After successful completion of the first year, students continue in the traditional curriculum, taking a reduced course load during the fall semester. Students resume a full course schedule in the spring semester, following the traditional curriculum for the remainder of their degree plan.

Academic Requirements During the Bridge Year

During the Bridge year, students must make an 80% or better on all biomedical sciences coursework during the fall semester, or otherwise be required to repeat this coursework during the second year of medical school. Any course failure (below 70%) during the Bridge year will result in dismissal from the program. Students will receive both an academic course grade and a non-cognitive grade for all courses. As members of the OSU-CHS community, students will be expected to adhere to the Student Code of Conduct; any behavioral incidents or unsatisfactory non-cognitive grades will be pursued through the Student Conduct and/or Academic Standards process. Upon completion of the Bridge year, course failures and academic requirements will be governed by the Academic Standards Handbook.

Eligibility Requirements

Students applying to the Bridge Program must prove personal disadvantage in at least one of the following areas:

1. Economic Disadvantage
   Guidelines to consider in determining disadvantaged status can be found at http://www.hrsa.gov/loanscholarships/loans/disadvantaged.html
   Factors to consider include coming from a family with an annual income <200% of the Federal Poverty level. (See guidelines at https://www.federalregister.gov/articles/2016/01/25/2016-01450/annual-update-of-the-hhs-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 http://www.hrsa.gov/loanscholarships/loans/disadvantaged.html
   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

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

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. 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 Students**
  A non-independent student must have at least one parent, stepparent, or court-appointed guardian who is an Oklahoma resident. Additionally, this individual must have claimed the student as a dependent on his/her federal income tax return for the previous year.

- **Independent Students**
  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 12 continuous months prior to matriculation.

Minimum Required Coursework

At the time of entry, the applicant must have completed:

- A baccalaureate degree at a regionally accredited college or university
- Satisfactory completion of the following courses, including laboratory, with no grade below “C” (2.0 on 4.0 scale):
  - English – 6 semester hours
  - Biology – 8 semester hours
  - Physics – 8 semester hours
  - General Chemistry – 8 semester hours
  - Organic Chemistry – 8 semester hours
- Satisfactory completion of at least one upper division (3000-4000 level) science course (3-5 courses strongly preferred), with no grade below “C” (2.0 on a 4.0 scale). Examples include but are not limited to:
  - Biochemistry
  - Human or Comparative Anatomy*
  - Microbiology or Molecular Biology
  - Histology*
  - Embryology
  - Immunology
  - Physiology
  - Genetics
  *Preferred Course

Minimum GPA and MCAT

At the time of application, the applicant must have a minimum:

- Overall GPA of 2.5 (on a 4.0 scale)
- Minimum of 483 on the MCAT*
- Pre-professional science GPA of at least 2.5 (on a 4.0 scale)

*Effective with the 2016-2017 admissions cycle, only the new MCAT will be accepted. MCAT must be taken within the last three years prior to application.

Timeline and Fees

Begin application process June 1, the year before planned matriculation.

- June 1 – ACOMAS starts processing applications
- February – ACOMAS application deadline; fee $195
- March – Secondary and Bridge Application deadline; fee $65 each
- Interviews are conducted in April
**Doctor of Osteopathic Medicine (D.O.)**

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.

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 with clinical and behavioral sciences to permit the full comprehension of the clinician’s work and promote a holistic approach to the care of patients and their families. Students receive training in all areas of medicine, with additional emphasis on osteopathic manipulative medicine.

The first semester focuses on the foundations of biomedical and clinical sciences along with an introduction to patient care. Starting in the second semester 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.

### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Osteopathic Manual Medicine I</td>
<td>2</td>
</tr>
<tr>
<td>Developing the Physician I</td>
<td>4</td>
</tr>
<tr>
<td>Clinical Anatomy</td>
<td>6</td>
</tr>
<tr>
<td>Foundations</td>
<td>10</td>
</tr>
<tr>
<td>• Genetics, Molecular Biology, Cell and Developmental Anatomy</td>
<td></td>
</tr>
<tr>
<td>• Cell and Tissue Biology</td>
<td></td>
</tr>
<tr>
<td>• Biochemistry</td>
<td></td>
</tr>
<tr>
<td>• Pharmacology</td>
<td></td>
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<tr>
<td>• Immunology</td>
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</tr>
<tr>
<td>• Microbiology</td>
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**Spring Semester**

<table>
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<th>Course</th>
<th>Credit Hours</th>
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<tr>
<td>Osteopathic Manual Medicine II</td>
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<tr>
<td>Clinical Skills I</td>
<td>3</td>
</tr>
<tr>
<td>Developing the Physician II</td>
<td>4</td>
</tr>
<tr>
<td>Focus Courses</td>
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<tr>
<td>• Lab Medicine</td>
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</tr>
<tr>
<td>• Geriatrics</td>
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<tr>
<td>Systems</td>
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<tr>
<td>• Cardiovascular</td>
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<tr>
<td>• Hematology</td>
<td></td>
</tr>
<tr>
<td>• Genitourinary</td>
<td></td>
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<tr>
<td>• Respiratory</td>
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</table>

### Second Year

**Fall Semester**

<table>
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<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Health Care Foundations</td>
<td>2</td>
</tr>
<tr>
<td>Clinical Skills II</td>
<td>2</td>
</tr>
<tr>
<td>Developing the Physician III</td>
<td>4</td>
</tr>
<tr>
<td>Osteopathic Manual Medicine III</td>
<td>2</td>
</tr>
<tr>
<td>Focus Courses</td>
<td>3</td>
</tr>
<tr>
<td>• Health Behavior Change</td>
<td></td>
</tr>
<tr>
<td>• Rural Health</td>
<td></td>
</tr>
<tr>
<td>• Pediatrics</td>
<td></td>
</tr>
<tr>
<td>Systems</td>
<td>12</td>
</tr>
<tr>
<td>• Gastrointestinal/Hepatic System</td>
<td></td>
</tr>
<tr>
<td>• Nervous System</td>
<td></td>
</tr>
<tr>
<td>• Psychiatry</td>
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</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Clinical Skills III</td>
<td>2</td>
</tr>
<tr>
<td>Osteopathic Manual Medicine IV</td>
<td>2</td>
</tr>
<tr>
<td>Focus Courses</td>
<td>2</td>
</tr>
<tr>
<td>• Addiction Medicine</td>
<td></td>
</tr>
<tr>
<td>• Obesity Medicine</td>
<td></td>
</tr>
<tr>
<td>Systems</td>
<td>11</td>
</tr>
<tr>
<td>• Endocrine</td>
<td></td>
</tr>
<tr>
<td>• Musculoskeletal/Skin/Connective</td>
<td></td>
</tr>
<tr>
<td>• Reproduction</td>
<td></td>
</tr>
<tr>
<td>• Integrative Systems Review</td>
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</tr>
</tbody>
</table>
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 surgery, obstetrics-gynecology, pediatrics, osteopathic manipulative medicine, psychiatry, internal medicine, family medicine and emergency medicine. Many rotations are completed at OSU Medical Center in Tulsa, one of the country’s largest osteopathic hospitals, as well as INTEGRIS Southwest Hospital in Oklahoma City. Students will also complete rotations in communities throughout Oklahoma, including two months on a Community Hospital Rotation and one month on a Rural Clinic Rotation.

Students may also fulfill requirements at various medical institutions across the country.

Students graduate from the four-year program with the Doctor of Osteopathic Medicine (DO) degree. Although each year more than half 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 the residency programs our recent graduates have entered and residency acceptance data, along with OSU-COM’s pass rate on the COMLEX-USA, please visit: www.healthsciences.okstate.edu/com/admissions/graduates.php

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### Third and Fourth Year

**Rotations**

- Internal Medicine I
- Internal Medicine II
- OB/GYN
- Surgery
- Family Medicine - Health Care Center
- Pediatrics
- Psychiatry
- Osteopathic Manipulative Medicine
- Rural Clinic
- Emergency Medicine
- Community Hospital I
- Community Hospital II
- 8 Electives
- 4 Didactic Weeks
Financial Aid and Scholarships

Financing a medical education is an expensive proposition. The primary responsibility for meeting your educational costs rests with you and/or your family, but the Office of Student Affairs makes every attempt to assist you financially. You will undoubtedly rely on student loans to finance your education. Approximately 85 percent of the student body borrows some type of federal loan.

The purpose of financial aid is to help students and families meet educational expenses that cannot be met through their own resources. Financial aid can be either need-based or non-need-based. The results of the Free Application for Federal Student Aid, or FAFSA, along with the cost-of-education will determine whether a student has financial need. All students requesting financial assistance of the Financial Aid Office are required to submit a FAFSA.

Programs in this category:

- Direct Loan Program
- Direct Graduate PLUS Loan
- Federal Work-Study

There are a number of programs awarded under separate, individual application. The Financial Aid Office can provide additional information about these programs. The most commonly used are:

- Armed Forces Health Profession Scholarship Program
- Indian Health Service Scholarship
- National Health Service Corps Scholarship
- OSU Foundation Scholarships

<table>
<thead>
<tr>
<th>OMS-I Tuition and Fees</th>
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<tbody>
<tr>
<td>Description</td>
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<tr>
<td>Tuition and Fees*</td>
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<td>Living Expenses</td>
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<tr>
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<td>Grand Total</td>
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</tbody>
</table>

*Tuition and fees subject to change

For additional information contact:

**Jason R. Marrujo**
Manager, Student Financial Aid and Scholarships
College of Osteopathic Medicine
Office of Student Affairs
1111 West 17th Street
Tulsa, Okla. 74107-2705
918-561-8278
Fax 918-561-8243
800-677-1972
jason.marrujo@okstate.edu
Year One

- Meet with advisor to discuss overall premedical curriculum
- Begin prerequisite coursework – this typically begins with the biology and/or inorganic chemistry sequence
- Become involved in prehealth organizations and extracurricular activities on campus
- Gain clinical experience in health fields through shadowing, volunteer, employment (e.g., CNA, EMT), and internship opportunities – keep records of your experiences

Year Two

- Meet with prehealth advisor to discuss current coursework, activities, and to begin thinking about preparations for the MCAT exam
- Continue prerequisite coursework
- Continue to gain clinical experience
- Focus on building relationships with professors, advisors, and medical professionals – they are future sources for recommendations
- Attend health professions fairs in your area to learn more about schools of interest
- Stay involved in prehealth organizations and get involved in community service – look for leadership opportunities
- Continue to keep records of experiences

Year Three – Fall

- Consult with prehealth advisor regarding letters of recommendation
- Continue prerequisite coursework
- Continue to gain clinical experience
- Explore available research opportunities
- Stay involved in prehealth organizations, volunteer experiences, and extracurricular activities
- Begin serious preparation for the MCAT exam
- Set aside time to work on personal statement – revisit and rework statement over a period of time

Year Three – Spring

- Meet with prehealth advisor to review the details of your application
- Contact those who will be writing recommendations for you – give them plenty of time to write a quality letter
- Research medical schools that are of interest to you – contact each school to inquire about specific admissions criteria and, if possible, schedule a time to visit campus
- Continue prerequisite coursework
- Continue to gain clinical experience and stay involved in prehealth activities
- Take MCAT exam
- Start the AACOMAS application process and arrange to have your transcript sent

Year Three – Summer

- Apply to AACOMAS as early as possible – applications can be submitted in June for the fall of the following year
- Submit supplemental application
- Periodically contact each school to verify your application status
Year Four

- Meet with prehealth advisor to prepare for upcoming interviews - if possible, complete a mock interview
- Review www.studentdoctor.net for current and past feedback on your schools of interest
- Complete prerequisite coursework - if possible, enroll in multiple upper-level science courses such as biochemistry, anatomy, or histology
- Continue to gain additional clinical and/or research experience
- Stay involved in prehealth organizations and volunteer activities
- Periodically contact each school to verify your application status
- Share news of upcoming interviews and acceptances with those who helped along the way - prehealth advisors, professors, physicians, family, and friends

Application Checklist

To complete your application to OSU Medicine, the following items must be submitted:

Step One - Application Process

- Application process begins June 1 of the year prior to the August entering class
- Log on to www.AACOM.org and complete the online application
- Submit MCAT scores
- Submit official transcripts
- Submit AACOMAS application fee ($195)
- Contact AACOMAS to verify that all above have been received
- Deadline for submission: February prior to the fall of anticipated enrollment

Step Two - Secondary Materials

- OSU-COM sends Secondary Applications to all applicants upon receiving their verified AACOMAS application
- Complete secondary application online
- Submit letter of recommendation/evaluation forms
- Premedical committee or three faculty letters/evaluations
- One letter of recommendation from D.O.
- Submit secondary application fee $65
- Contact OSU Medicine to verify all above have been received

Contact us or request a tour:

Oklahoma State University Center for Health Sciences
College of Osteopathic Medicine
Office of Student Affairs
1111 W. 17th St.
Tulsa, Okla. 74107-1898
918-561-8320
medicine.okstate.edu
Students receive training in all areas of medicine.
Doctor of Osteopathic Medicine/Master of Business Administration (D.O./M.B.A.)

The Oklahoma State University Center for Health Sciences offers a joint Doctor of Osteopathic Medicine and Master’s 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, Okla.

The OSU Spears School of Business is composed of seven academic departments with a student body of more than 3,900 undergraduate students pursuing 15 degrees and approximately 800 graduate students pursuing six master’s degrees. The school also offers doctoral degrees in business administration and in economics.

The school is home to more than 100 tenure-track educational professionals, many of whom have received outstanding teaching awards and have been recognized for innovative instruction. The Spears faculty is nationally and internationally recognized for its publications and leadership positions in professional academic associations, as sought-after consultants, practitioners, and caring teachers.

The D.O./M.B.A. Experience

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. Six hours of elective credit can be shared from the D.O. coursework or business electives of the students’ choice.

Quantitative and Behavioral Curriculum

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.

Real-World Applications

The faculty, with varied academic, governmental, corporate, and consulting backgrounds, bring real-world experience to the classroom. As a student, you will receive the necessary theoretical background but you will 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.

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.
The dual-degree programs offered by OSU-CHS provide medical students with unique opportunities to expand their expertise. The D.O./M.B.A. program in particular offers exposure to a myriad of skills vital to successful practice as a physician. From capital budgeting techniques and investment principles to corporate and managerial strategy, courses are relevant to the situations and issues individuals will face throughout their professional career. In just one year, OSU medical students are able to complete the coursework required for a degree that takes students in other programs multiple years to obtain. The D.O./M.B.A. program affords numerous opportunities for future occupational growth and advancement otherwise unavailable. As a participant, I am confident that I now possess a greater aptitude for personal and professional achievement.

— Micah Relic, D.O.
Class of 2014

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 academic standing with the graduate college in order to retain deferred admission into the D.O. program.

**Application Process for D.O./M.B.A.**

Current MSI and MSII 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 their interest on the supplemental 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 - $50 application fee
- Resume

For more information visit:
www.healthsciences.okstate.edu/college/degrees/do-mba.cfm

**D.O./M.B.A. Program Curriculum**

### First Semester Fall

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<thead>
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<th>Course Title</th>
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<tr>
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<td>Financial Accounting</td>
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<tr>
<td>FIN</td>
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<td>Business Finance</td>
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<tr>
<td>MKTG</td>
<td>5133</td>
<td>Marketing Management</td>
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<td>Management and Organizational Theory</td>
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### Second Semester Spring

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<tr>
<td>FIN</td>
<td>5053</td>
<td>Financial Management</td>
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<td>MGMT</td>
<td>5303</td>
<td>Corporate Strategy</td>
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<tr>
<td>LSB</td>
<td>5163</td>
<td>Legal Issues</td>
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</tr>
<tr>
<td>MSIS</td>
<td>5303</td>
<td>Quantitative Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

*Curriculum is subject to change.*
Doctor of Osteopathic Medicine/Masters of Science in Health Care Administration (D.O./H.C.A.)

After graduating from a residency program, physicians often become employed within an integrated health system. The complexities of these large health systems can make the initial employment experience challenging. New physicians are expected to practice medicine while adjusting to the business intricacies of their employer. With a greater understanding of the issues facing 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 OSU College of Osteopathic Medicine graduates will have the opportunity to serve in management positions within health care delivery entities. These opportunities will depend largely upon the ability of the physician to comprehend the challenges of the health care organization and make significant leadership contributions.

Medical students pursuing the D.O./H.C.A. option take health care administration coursework during a one-year period prior to the beginning of the medical school experience.

Students have two summer semesters, one fall semester and one spring semester to complete the 24 credit hours of health care administration coursework. Additionally, students are granted nine credit hours of graduate credit for their medical school courses.

Medical students who successfully complete this coursework will graduate with a Doctor of Osteopathic Medicine degree and an additional degree of Master of Science in Health Care Administration.

Application Process for the D.O./H.C.A. Degree

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./H.C.A. 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 H.C.A. portion of the D.O./H.C.A. program

- Applicants submit their application online. The application is found on the web at the OSU Graduate College.
- Three letters of recommendation from individuals familiar with the educational background of the applicant. Letters of recommendation submitted to the DO 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./H.C.A. 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 OSU College of Osteopathic Medicine D.O. admissions page for a complete list of application materials and procedures. Dual degree students may substitute the MCAT for the GRE exam. The deadline for submitting all secondary application materials is March 30.
Doctor of Osteopathic Medicine/
Masters of Public Health (D.O./M.P.H.)

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 an occasional course at the OSU-Tulsa, and a growing number of courses available via distance learning.

The D.O./M.P.H. Experience

Today’s successful physicians must have explicit understanding of cultural determinants of health and population health to be able to excel on multiple levels. At Oklahoma State University, the M.P.H. program emphasizes the determinants of health for rural and underserved 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 six elective hours taken in the summer.

Real-World Applications

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.

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.

Application Process for D.O./M.P.H.

Current MSI and MSII 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.
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.

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 $50 application fee)
- Official transcripts from all schools attended
- Resume

### D.O./M.P.H. Curriculum

#### General Requirements

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<td>MPH/HLTH</td>
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<td>MPH/HLTH</td>
<td>5683</td>
<td>Health Behavior Theory &amp; Practice for Public Health</td>
</tr>
<tr>
<td>MPH/HLTH</td>
<td>5133</td>
<td>Environmental Health</td>
</tr>
<tr>
<td>REM</td>
<td>5953</td>
<td>Statistical Methods in Education</td>
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<td>HCA</td>
<td>5013</td>
<td>Survey of Health Care Administration</td>
</tr>
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<td>MPH/HLTH</td>
<td>5973</td>
<td>Designing Public Health Program</td>
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<tr>
<td>MPH/HLTH</td>
<td>5983</td>
<td>Implementation and Evaluation of Public Health Programs</td>
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<td>MPH/HLTH</td>
<td>5453</td>
<td>Cultural Issues in Health</td>
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<td>MC</td>
<td>5953</td>
<td>Strategic Health Communications Campaigns</td>
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<td>MPH/HLTH</td>
<td>5323</td>
<td>General Epidemiology</td>
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<td>Leadership and Management of Community Service Programs</td>
</tr>
<tr>
<td>MPH</td>
<td>5030</td>
<td>Practicum in Public Health</td>
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</table>
The D.O./M.S. program is a great avenue for students to solidify their basic science education as well as gain insight into research and current literature. The program has greatly exceeded my expectations; I have gained many skills in critical thinking and evaluating published literature that will definitely benefit me going into residency and then into my medical practice. I have also enjoyed the relationships that I have created with my professors and my major advisor. All in all, the D.O./M.S. program was a great fit for me and I would suggest it to any student that is interested in research, now and/or later in their practice.

- Larry Johnston, D.O./M.S. Class of 2015

Doctor of Osteopathic Medicine/Masters of Biomedical Sciences (D.O./M.S.)

The D.O./M.S. program is offered to medical students interested in medical research and/or academic medicine. This degree is ideal for the future physician who wishes to maintain an interest in research while also treating patients in a clinical setting.

Students in the dual degree D.O./M.S. program, upon successful completion of required coursework, are guaranteed acceptance into OSU-COM in the following year. The student must complete one full year of M.S. requirements and maintain good academic standing with the graduate program in order to receive deferred admission.

Successful completion of the D.O./M.S. program requires fulfillment of the requirements for the D.O. medical degree and a minimum of 32 semester hours of graduate credit.

The M.S. portion of the D.O./M.S. program is designed to be accomplished in approximately 2 years; however, all degree requirements must be completed within 7 years of entering the D.O./M.S. program. The dual degree student will receive 9 hours of transfer credit from the osteopathic medical program. The M.S. degree will be awarded whenever the graduate degree requirements have been accomplished, which is usually during the D.O. portion of the program.

Credit hours and required courses for the D.O./M.S. program are the same for the regular master’s degree.

Application Process for the D.O./M.S. Degree

Track one: 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 supplemental application for medical school. Only students who successfully complete an on-campus interview for the D.O. program will be considered for this track and will be contacted with application instructions by the admissions department after interviews have concluded.

Track two: At any time after receiving an offer of admission to OSU-COM, medical students interested in the M.S. degree may apply to the program and take courses concurrently with the medical school curriculum if accepted.

In addition to submitting the graduate application materials listed in the Biomedical M.S. portion of the view book, dual degree students must apply separately to the D.O. program. The student must submit an AACOMAS application online at www.aacom.org

- AACOMAS application deadline - February 28, the year of matriculation
- AACOMAS application fee - $195

Please consult the D.O. admissions section of the view book for a complete list of application materials and procedures. Dual degree students are not required to pay the $50 graduate application fee and may substitute the MCAT for the GRE exam.

For more information contact:
Randall Davis, Ph.D.
Director of Biomedical Sciences
OSU Center for Health Sciences
randall.davis@okstate.edu  |  918-561-8408
www.healthsciences.okstate.edu/biomedical/index.cfm
Doctor of Osteopathic Medicine/Doctor of Philosophy (D.O./Ph.D.)

The D.O./Ph.D. program is offered to medical students interested in medical research and/or academic medicine. Areas of emphasis include: biochemistry, cell biology, microbiology, pathology, pharmacology, and physiology. This degree is designed for the future physician who desires to see patients in a clinical setting while still maintaining an active interest in research.

The Ph.D. portion of the program is designed to be completed in approximately three years; however, all degree requirements must be completed within nine years of entering the dual degree program. A total of 90 graduate credit hours are required for the Ph.D. degree; with a minimum of 30 hours course work and 30 hours of Research and Dissertation. 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 allowed. Students are required to maintain a GPA of 3.0 or better in their biomedical coursework. An academic review will occur in May at the end of each year of coursework to evaluate the progress of the student in the program. The D.O./Ph.D. student is required to enter the Ph.D. portion of the program after completing the first 2 years of the medical curriculum.

All other coursework, credit hours, research proposal, and qualifying examination requirements are the same as outlined in the Ph.D. program requirements and restrictions.

Application Process for the D.O./Ph.D. Degree

In addition to submitting the graduate application materials listed in the Biomedical Ph.D. portion of the view book, dual degree students must apply separately to the D.O. program. The student must submit an AACOMAS application online at www.aacom.org

- AACOMAS application deadline - February 28, the year of matriculation
- AACOMAS application fee - $195

Please consult the D.O. admissions section of the view book for a complete list of application materials and procedures. Dual degree students are not required to pay the $50 graduate application fee. D.O./Ph.D. students may apply upon acceptance to medical school or within their first two years of medical coursework.

For more information contact:
Randall Davis, Ph.D.
Director of Biomedical Sciences
OSU Center for Health Sciences
randall.davis@okstate.edu | 918-561-8408
www.healthsciences.okstate.edu/biomedical/index.cfm
Graduate Programs: Biomedical Sciences
Graduate Programs in Biomedical Sciences (M.S. and Ph.D.)

Advances made in recent years by biomedical scientists have greatly expanded our understanding of disease mechanisms, creating a demand for well-trained professionals with a breadth of knowledge about human diseases as well as in-depth research training.

The Graduate Program in Biomedical Sciences offers students a broad foundation of interdisciplinary training in the areas of anatomy, biochemistry, cell biology, microbiology, pathology, pharmacology, and physiology.

In addition to conventional biomedical sciences, we offer an Anatomy and Vertebrate Paleontology track. Program requirements for this track are slightly different as appropriate and can be obtained by contacting Dr. Anne Weil or Dr. Kent Smith.

Graduates have a wide range of career opportunities including:
- Biomedical Education in universities, colleges, and medical schools
- Biomedical Research in university, private, and government laboratories
- Pharmaceutical Industry
- Biotechnology

Master of Science (M.S.)

Thesis option

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.

Thesis option - minimum of 24 hours of course work and eight 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.

The thesis and non-thesis M.S. options are designed to be accomplished in 2 years; however, all degree requirements must be completed within 7 years of entering the program.
Admission Standards for the M.S. Program

Prospective students must have earned a baccalaureate degree and completed coursework in general biology, general chemistry, organic 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 and to have earned a Graduate Record Examination (GRE) score of at least 150 on both the verbal and the quantitative sections, and a writing score of at least 4.0. 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). Under certain circumstances, a student may be accepted into the program without meeting all of the requirements written above.

M.S. Program Curriculum

Required Courses:

- Foundations in Medical Biochemistry
- Foundations in Medical Genetics, Molecular Biology & Developmental Anatomy
- Foundations in Medical Cell & Tissue Biology
- Foundations in Medical Immunology
- Foundations in Medical Microbiology
- Foundations in Medical Pharmacology
- Cornerstones of Graduate Biomedical Sciences
- Scientific Communication in the Biomedical Sciences
- Research Ethics and Survival Skills for the Biomedical Sciences
- Statistics for Experimenters I (or equivalent)

Academic Review

An academic review will occur in May of each year to evaluate the progress of students enrolled in the M.S. program.

Transfer Credit

A student may transfer up to 9 hours of graduate credit from an approved institution and apply it towards earning their M.S. degree. Required courses must be taken at OSU-CHS.
Doctor of Philosophy (Ph.D.)

Successful completion of the Ph.D. degree requires a minimum of 90 semester credit hours beyond the bachelor’s degree (60 hours beyond the master’s degree).

Students in the Ph.D. program will take interdisciplinary graduate courses, take a comprehensive qualifying examination, conduct research, present research seminars, and write and publicly defend a dissertation.

The Ph.D. program is designed to be accomplished in 4 years; however, all degree requirements must be completed within 9 years of entering the program.

Admission Standards for the Ph.D. Program

Prospective students must have earned a baccalaureate degree and completed coursework in general biology, general chemistry, organic 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 and to have earned a Graduate Record Examination (GRE) score of at least 150 on both the verbal and the quantitative sections, and a writing score of at least 4.0. 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). Under certain circumstances, a student may be accepted into the program without meeting all of the requirements written above.
Ph.D. Program Curriculum

Students in the Ph.D. program will take a minimum of 30 semester credit hours of coursework, which includes required courses (see table below) and courses in a specific area of interest. Additionally, doctoral students will pursue their own research in an area of interest with a graduate faculty mentor of their choosing. The research component of the Ph.D. program requires a minimum of 30 semester credit hours of research and dissertation.

Required Courses:

Required Courses for Biomedical Sciences
- Foundations in Medical Biochemistry
- Foundations in Medical Genetics, Molecular Biology & Developmental Anatomy
- Foundations in Medical Cell & Tissue Biology
- Foundations in Medical Immunology
- Foundations in Medical Microbiology
- Foundations in Medical Pharmacology
- Cornerstones of Graduate Biomedical Sciences
- Scientific Communication in the Biomedical Sciences
- Research Ethics and Survival Skills for the Biomedical Sciences
- Statistics for Experimenters II (or equivalent)

Required Courses for Anatomy and Vertebrate Paleontology Track

Clinical Gross Anatomy
- Research Ethics & Survival Skills for the Biomedical Sciences
- Statistics for Experimenters II (or equivalent)
- Paleomammalogy
- Scientific Communication in the Biomedical Sciences
- Foundations in Medical Cell and Tissue Biology
- Foundations in Medical Genetics, Molecular Biology & Developmental Anatomy

In addition to the course requirements, doctoral students are required to write a research proposal that describes their research interest, research methods, and any data collected up to the time of writing the proposal. Students also must pass a qualifying examination that consists of both a written and oral component.

I have always been fascinated by the wonder of the nervous system, its function, and restoration in the face of injury. As such, I feel so fortunate that my research as a Ph.D. student at OSU-CHS is focused on understanding the metabolism of glutamate and its role during spinal injury and inflammatory pain conditions. Glutamate is the major excitatory neurotransmitter in the nervous system. By understanding the change in glutamate metabolism during pain and nerve damage we can further our pursuit to effectively tackle the pervasive issue of nervous system damage.

– Brittany Bolt, D.O.
Class of 2015
Academic Review

An academic review will occur in May of each year to evaluate the progress of students enrolled in the Ph.D. program.

Transfer Credit

A student may transfer up to 30 hours of graduate credit for a M.S. degree earned from an approved institution. Required biomedical courses must be taken at OSU-CHS.

Application Process for the M.S. and Ph.D. Degrees

The student must submit to the Coordinator of Graduate Admissions:

- An official graduate application
- An official transcript from each college and university attended
- Test scores for the GRE and 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
- Application fee
- Statement of research interests

Financial Aid

Students needing assistance with loans should contact the Office of Financial Aid. There are a limited number of stipends available to Ph.D. students and stipends are awarded on a competitive basis. Stipend applications are accepted in May of each year and stipends are awarded in July. Additionally, tuition waivers are available to Ph.D. students on a competitive basis.
School of Forensic Sciences

The School of Forensic Sciences provides a master’s degree for training in research, methodology, practice, and management in support of crime investigation. In *Strengthening Forensic Science in the United States Sciences*, recommendations from the National Academies of Science paint a promising picture for careers in forensic science. Backlogs of unsolved criminal cases, expectations for high standards and quality control, and the need for accurate and reliable research point to a demand for a highly educated workforce in the coming 5-10 years. Examples of alumni jobs include the following positions:

- Criminalist
- Forensic document examiner
- Research analyst or technician
- Quality assurance manager
- Special investigator
- University instructor

Master of Science in Forensic Science (M.S.)

The master’s program features interdisciplinary courses; most theory classes are available online while laboratory classes and research are held on campus. The degree offers several research-thesis tracks and two non-thesis options. The thesis tracks typically involve two semesters of online classes, followed by three or more semesters of on-campus laboratory classes and supervised research. Participants in non-thesis options may complete the degree program entirely through online classes. Both programs require satisfactory completion of 39 graduate credits, a comprehensive examination, participation in graduate or continuing-education seminars, and a research project. Students in either program may enroll on a full- or part-time basis. The Master of Science in Forensic Sciences has the distinction of being accredited by FEPAC, the Forensic Education Program Accreditation Commission of the American Academy of Forensic Sciences. This accreditation is an asset for graduates seeking employment.

Research and Thesis

The thesis program offers a choice of advanced studies and research in four disciplines: forensic biology/DNA, forensic pathology (microbiology or death scene investigation), forensic psychology, and forensic toxicology/trace evidence. Students complete two semesters of online studies before coming to campus for laboratory courses and research, which includes six hours of research enrollment. The program culminates with the presentation and defense of the master’s thesis.
Non-thesis option

Non-thesis options are available in the areas of forensic science administration and forensic document examination. Admission requires either a professional background in forensic sciences or participation in document examiner training. Online classes allow active professionals to pursue graduate studies without relocating or interrupting their careers. The required research project is supported by the Ethical Research and Scientific Writing course and facilitated through the Non-thesis Creative Component course. The project culminates with the submission of the research paper along with a public presentation, which may be achieved through a videoconference/Webinar or presented in person.

Admission Standards

Applicants must have a baccalaureate degree with a recommended undergraduate grade point average of at least 3.0 on a 4.0 scale. Three letters of recommendation, and a letter from the applicant stating career goals are also required. Applicants to the thesis program should have an academic background in support of the chosen field of study. Applicants to the thesis program submit scores, either for the previously offered Graduate Record Examination (GRE) or for the currently available GRE Revised General Test. The recommended score should equate to a score of at least 1000 (combined score) for the verbal and quantitative portions on the earlier GRE test, as shown on the concordance tables at gre.com, with the writing score also taken into consideration. Applicants for non-thesis options may submit scores from GRE, as recommended above, or from the Miller Analogy Test (MAT), with scores above the 50th percentile recommended. Non-thesis applicants must also verify related employment or training.

International students for whom English is a second language must also take the International TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System). Required minimum scores are: for the TOEFL, 100 on the iBT with at least 20 on the written portion; or 600 on the PBT with 5 on the TWE; or for the IELTS, a score of 7.0. These exceed minimum requirements for OSU international admission. If the pre-admission review determines that the undergraduate transcript lacks prerequisites for courses in the chosen track, the applicant may be required to take additional courses as a condition of admission. In such cases, the student may take the prerequisite course while enrolled in the graduate program, although credit for any prerequisite must be completed prior to enrollment in the course for which it is stipulated.
Degree Requirements and Curriculum

The master's degree requires 39 graduate credit hours, a research project, a comprehensive 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 pathology³ (either microbiology or death scene investigation), forensic psychology,⁴ and forensic toxicology/trace evidence. Non-thesis options in forensic science administration and forensic document examination are available entirely online. See the chart below for requirements for each degree track or option. The M.S.F.S. is accredited by the Forensic Science Education Programs Accreditation Commission of the American Academy of Forensic Science, also known as FEPAC.

## General Requirements

<table>
<thead>
<tr>
<th>Prefix</th>
<th>No.</th>
<th>Course Title</th>
<th>Venue</th>
<th>Credits</th>
<th>Biology/DNA</th>
<th>Pathology: Microbiology</th>
<th>Pathology: Death Scene Investigation</th>
<th>Toxicology/Trace Evidence</th>
<th>Psychology</th>
<th>Administration</th>
<th>Doc. Examination</th>
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<td>Survey of Forensic Sciences</td>
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</table>

¹ Includes a two-part written examination over content and concepts from courses taken, proof of satisfactory court room testimony experience (as defined by the Department), and advisory committee review of research and of Part II of the written exam.

² Participation, in person or via Internet, in at least 16 one-hour OSU-CHS seminar sessions or equivalent continuing education.

³ This program does not produce forensic pathologists or forensic psychologists.

⁴ FRNS 5523 Forensic Toxicology may be substituted in this track or option.

* Additional requirements in forensic psychology will correspond to the sub-specialization within the track.
### Requirements for Track or Option

<table>
<thead>
<tr>
<th>Prefix</th>
<th>No.</th>
<th>Course Title</th>
<th>Venue</th>
<th>Credits</th>
<th>Biology/DNA</th>
<th>Pathology/Forensic Medicine</th>
<th>Pathology/Death Scene Investigation</th>
<th>Toxicology/Trace Evidence</th>
<th>Psychology*</th>
<th>Administration</th>
<th>Doc. Examination</th>
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<tr>
<td>FRNS</td>
<td>5913</td>
<td>Forensic Accounting &amp; Fraud Invest.</td>
<td>Online</td>
<td>3</td>
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<tr>
<td>FRNS</td>
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<td>Forensic Management &amp; Org. Dev.</td>
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<td>Special Topics: Anthropology/Osteology</td>
<td>Hybrid</td>
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<tr>
<td>FRNS</td>
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<td>Special Topics: Forensic Victimology</td>
<td>Online</td>
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</tbody>
</table>

1. Includes a two-part written examination over content and concepts from courses taken, proof of satisfactory court room testimony experience (as defined by the Department), and advisory committee review of research and of Part II of the written exam.
2. Participation, in person or via Internet, in at least 16 one-hour OSU-CHS seminar sessions or equivalent continuing education.
3. This program does not produce forensic pathologists or forensic psychologists.
4. FRNS 5523 Forensic Toxicology may be substituted in this track or option.

* Additional requirements in forensic psychology will correspond to the sub-specialization within the track.
Other Requirements

Credit for coursework: The M.S. student must successfully complete at least 39 credits of graduate coursework. The student will cooperate with the faculty advisor in developing a plan of study that complies with core requirements for the respective discipline, unless otherwise stipulated by the graduate faculty committee. All M.S. students must also satisfactorily present a research paper and complete the comprehensive examination. M.S. thesis students must successfully defend the research thesis before the graduate faculty committee.

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.

Enrollment: Degree-seeking students will matriculate in the program with the first enrollment after formal acceptance. All M.S. students must enroll in at least six hours per calendar year and maintain a 3.0 grade point average to remain in good standing. Thesis students in the research phase of the program must maintain continuous enrollment in at least two credit hours, including summer semesters, and dedicate a minimum of one semester to full-time coursework and research. Any student who interrupts enrollment for one calendar year must reapply for admission.

Time of study: The M.S. program may be completed in as few as four semesters, although course sequencing may necessitate a longer time. Thesis students attending full time typically require at least five semesters. Non-thesis students with full-time careers usually need seven semesters or more to complete the program. The master’s degree must be completed within seven years of the matriculation semester.

Residence requirement: Thesis students must spend at least one full-time semester on campus for laboratory courses and for research; however, thesis research most often requires two or three semesters on campus. Non-thesis students do not need to relocate to campus because the administration and FDE programs are available completely online.

Thesis research: Throughout the research phase of the thesis program, the student must perform tasks in the department, including course and research activities, under the guidance of the faculty advisor. In addition, the student must demonstrate ongoing progress with the research until the degree is completed. During the final semester, the student must present the research thesis according to graduate college guidelines and as defined in the graduate college style manual, which is available online. A public defense of the research is required with advance notice posted at least ten days prior to the defense. The format of the defense is left to the major advisor but must include an opportunity for members of the audience to ask questions. The student must send the graduate college an electronic copy of the final thesis and two copies of the abstract printed on OSU thesis bond. Students pay a processing fee to cover charges of electronic publication. The thesis becomes the property of the University and is available online through the OSU Library Catalog.

I recently finished my Masters of Science in Forensic Science and I am fortunate to be continuing work on my Ph.D. in Biomedical Sciences. Throughout my graduate studies at OSU, I have witnessed the need for continued research and development in the forensic sciences to help maintain crime labs at the forefront of available technology, resources, and training. My research deals with monitoring time since deposition of body fluid stains through the assessment of RNA degradation. Although currently available molecular technology can aid with human identification through DNA analysis, research in more broad range molecular techniques, such as RNA analysis, can help forensic investigators glean a deeper amount of information from biological evidence.

– Kate Weinbrecht, Ph.D./M.S.
Non-thesis research: Non-thesis students will produce a research paper according to standards set by the School of Forensic Sciences faculty. Guidance will be provided through the faculty advisor and facilitated in conjunction with the Non-thesis Creative Component course, with support also provided through the Ethical Research and Scientific Writing course. Along with the paper, the student must present the work in a public forum, either in person or via electronic transmission, with an opportunity for audience questions and discussion.

Additional Information

Requirements for online classes: This program requires self-discipline and adaptability necessary for collaborative and independent learning. In addition, applicants should have the necessary equipment, knowledge, skills, and access for using high-speed Internet, e-mail accounts, and basic office applications.

Background checks: Anyone considering a career in the forensic sciences should be aware that the 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 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 networking sites like Facebook, may be subject to review. Work samples and medical examinations may also be required along with drug, personality, and polygraph tests. Although the OSU-CHS application asks about felony convictions only, the prospective student should carefully consider any and all factors that could influence future employment.

Employers’ academic requirements: While the School of Forensic Sciences prepares students for employment in particular fields, prospective employers may have other requirements, especially related to laboratory accreditation. To ensure high standards of quality for forensic practitioners, agencies that govern laboratory accreditation may require employees to have completed courses not necessarily offered in the OSU forensics program. Applicants should therefore research the requirements for the chosen field of forensic science and for prospective employers within that field to learn what courses may affect eligibility for employment. For more information, go to http://forensicsciences.okstate.edu; click “Admission” and then “Academic Requirements by Employers.”

Financial aid: Students needing assistance with loans should contact the Office of Financial Aid. Thesis students may inquire with the Program Director about any available assistance through the departments or faculty research grants; those with a documented interest in agricultural biosecurity
may apply with the Program Director for a stipend that is awarded on a competitive basis. M.S./Non-thesis students residing in southern states in the Academic Common Market may qualify for a tuition waiver of the non-resident portion of tuition. Information on this option is available through the Program Coordinator in the department office.

Non-program enrollment: Students in other graduate programs as well as individuals not pursuing a degree may enroll in classes not filled by M.S.F.S. students. The Application for Special Graduate Admission available on the OSU-CHS Web site is required, along with college transcripts verifying an undergraduate degree. Students in any other graduate programs must have the advisor's signature on the enrollment form.

Formal Application

Initial inquiries, correspondence, and all formal application materials should be sent to:

Ryan Roush, Program Assistant
School of Forensic Sciences
Oklahoma State University Center for Health Sciences
1111 West 17th Street
Tulsa, Okla. 74107-1898
918-561-1145 or 800-677-1972, E-mail: forensic@okstate.edu

Application Requirements

All M.S. applicants:

■ Completed, official application (obtained from the Office of Student Affairs, the Graduate Program in Forensic Sciences, or the OSU-CHS Web site)
■ Payment of application fee of $50 ($75 for International students)
■ An official transcript from each college and university attended
■ Official test scores for the GRE, MAT, and TOEFL examinations as appropriate
■ Three letters of recommendation from persons familiar with the educational and/or professional background of the applicant, with comments reflecting the applicant’s experience and expected motivation and productivity
■ A letter of application describing personal career goals

M.S./Non-thesis applicants only:

■ Employment verification on the form provided with the application materials or from the program Web site

Non-program enrollment:

■ Completed, official “special” application (obtained from the Office of Student Affairs, the Graduate Program in Forensic Sciences, or the OSU-CHS Web site)
■ Payment of application fee of $15
■ An official transcript from each college and university attended
Master in Athletic Training  
(MAT in Allied Health)

The Master of Athletic Training (MAT) program is designed to prepare individuals to become clinicians who will advance the profession of athletic training and enhance the quality of patient healthcare. The curriculum provides instruction in: evidence-based practice, health promotion and prevention, clinical examination and diagnosis, acute care of injuries and illnesses, therapeutic interventions, psychosocial strategies healthcare administration and professional development. The MAT program is currently accredited by the Commission on Accreditation of Athletic Training Education (CAATE).

Requirements for the master’s degree include:

- 3.0 or better grade point average
- B or higher in pre-requisite coursework
- 50 Hours of Athletic Training observation
Admission Procedures
Applicants to the MAT Program may apply on-line at:
https://app.it.okstate.edu/gradcollege

- Submit supplemental documents
- Consent for possession of medical records
- Criminal background check
- OSU ATP health history
- Technical Standards and Assumption of Risk
- Observation hours report
- Formal Interview

MAT Program Requirements and Restrictions

The Master of Athletic Training program requires 56 credit hours that includes a creative component project.

<table>
<thead>
<tr>
<th>Prefix</th>
<th>No.</th>
<th>Course Title</th>
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<tbody>
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<td>MAT</td>
<td>5183</td>
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<td>BIOM</td>
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<td>Gross Anatomy</td>
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<td>MAT</td>
<td>5223</td>
<td>Therapeutic Modalities</td>
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<tr>
<td>MAT</td>
<td>5233</td>
<td>Clinical Evaluation and Diagnosis of the Lower Extremity</td>
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<td>MAT</td>
<td>5243</td>
<td>Therapeutic Exercise of the Lower Extremity</td>
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<tr>
<td>MAT</td>
<td>5202</td>
<td>Practicum I</td>
</tr>
<tr>
<td>MAT</td>
<td>5313</td>
<td>Clinical Evaluation and Diagnosis of General Medical Conditions</td>
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<tr>
<td>MAT</td>
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<td>Clinical Evaluation and Diagnosis of the Upper Extremity</td>
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<td>5412</td>
<td>Radiography Evaluation and Assessment</td>
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<td>5302</td>
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<tr>
<td>MAT</td>
<td>5483</td>
<td>Pathology and Pharmacology in Sports Medicine</td>
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<tr>
<td>MAT</td>
<td>5573</td>
<td>Athletic Healthcare Administration</td>
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<tr>
<td>MAT</td>
<td>5402</td>
<td>Practicum III</td>
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<tr>
<td>MAT</td>
<td>5553</td>
<td>Research Methods in Athletic Healthcare</td>
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<td>MAT</td>
<td>5583</td>
<td>Psychosocial Strategies in Athletic Healthcare</td>
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<td>MAT</td>
<td>5443</td>
<td>Clinical Diagnosis, Evaluation, and Therapeutic Exercise of the Head and Spine</td>
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<td>5502</td>
<td>Practicum IV</td>
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<td>Capstone</td>
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<td>Practicum V</td>
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Graduate Programs: Health Care Administration
Health Care Administration Program
(M.S. in HCA)

The Health Care Administration (HCA) Program is a Master's 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. This degree offers on-site courses at OSU-Stillwater and OSU-Tulsa as well as distance learning opportunities. This degree can be completed in-class or fully online.

The M.S in HCA consists of 32 total hours with a creative component or thesis including six hours of general graduate level electives.

Requirements for the master's degree include:

■ A 3.0 or better grade point average
■ A baccalaureate degree

Admission Procedures

Applicants to the HCA Program may apply on-line at: https://app.it.okstate.edu/gradcollege

■ 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

Paper applications and transcripts should be sent to:
OSU Graduate College
202 Whitehurst Hall
Stillwater, Okla. 74078-1019

Statement of Qualifications, Goals & Objectives—Please prepare a one- to two-page, typed, double-spaced essay that includes the following:

■ Description of your current job.
■ Description of current and past health care experience, if any.
■ What are your career goals?
■ How will the HCA program help you in achieving these goals?
■ Why are you applying to OSU’s HCA program?
■ What personal strengths will help you attain your goals?
■ What personal challenges do you face to attain your goals?

The Statement of Goals should be emailed to amanda.benn@okstate.edu.
Formal application includes:

- Completed, official application (online or paper) submitted to the Graduate College
- Payment of application fee of $50 (online applications), $50 (paper applications), or $75 (international applications)
- One official transcript from each college and university attended
- Statement of goals, qualifications, and objectives

M.S. Program Requirements and Restrictions

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

### Core Required Courses (12 Hours)

<table>
<thead>
<tr>
<th>Prefix</th>
<th>No.</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>HCA</td>
<td>5073</td>
<td>Social Structures in Healthcare Organizations</td>
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<td>HCA</td>
<td>5123</td>
<td>Research and Evaluation Methods in Healthcare</td>
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<tr>
<td>HCA</td>
<td>5033</td>
<td>Legal Issues in Healthcare</td>
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</table>

Research thesis, supported by enrollment in HCA 5010 or creative component project, supported by enrollment in HCA 5013, 5073, 5123, or HCA 5033.

### Core Elective Courses

Other requirements vary by option or track: (20 credits)

### Financial Aid

Students needing assistance with loans should contact the financial aid coordinator on either the OSU-Tulsa or OSU-Stillwater campus.

- OSU-Stillwater Office of Financial Aid and Scholarships: 405-744-6604
- OSU-Tulsa Office of Financial Aid and Scholarships: 918-594-8355

If you have questions or need additional information contact:

Amanda Benn
Healthcare Administration Manager
OSU Center for Health Sciences
amanda.benn@okstate.edu
918-561-1402
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2,500/June/2016

For more information on campus activities visit the link below for the Calendar of Events:
http://www.healthsciences.okstate.edu/com/admissions/recruitment.php