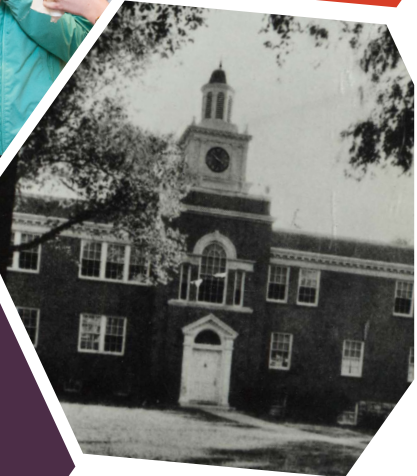
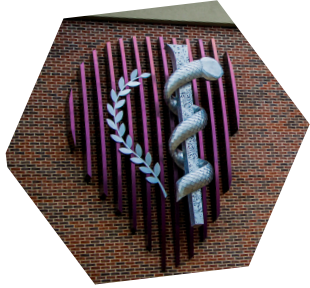




UNIVERSITY CATALOG 2016-2017



Kansas City University of Medicine and Biosciences

Catalog 2016-2017

This catalog is an official bulletin of Kansas City University of Medicine and Biosciences (KCU) and is intended to provide general information. The catalog contains policies, regulations, procedures and fees effective July 1, 2016. The University reserves the right to make changes at any time to reflect current Board policies, administrative regulations and procedures, amendments by state law and fee changes. Information provided in this catalog is subject to change without notice and does not constitute a contract between KCU and a student or an applicant for admission. The institution is not responsible for any misrepresentation or provisions that may arise as a result of errors in preparation.

Students are responsible for observing any policies or regulations contained herein or in the online policy library; therefore, they must read this catalog carefully. This catalog does not contain all institutional rules, regulations or policies for which students are responsible. Three other University sources discuss expectations for and policies applicable to students: the KCU Student Handbook, the Office of Clinical Education Clerkship Manual, and the University's Intranet-based policy library.

The KCU Student Handbook covers policies governing student conduct and responsibilities. It also includes academic policies which are, in part, discussed herein. The KCU Student Handbook is published yearly and may be amended at any time without prior notice. The CE Clerkship Manual is prepared under the auspices of the dean of the College of Osteopathic Medicine. This document governs policies and practices for clinical clerkships. The current electronic copies of these publications, as well as other University policies, can be obtained at the University's Intranet-based policy library. Note: Printed versions may not be current; the electronic version will always be current.

Contact Information

Kansas City University of Medicine and Biosciences
1750 Independence Avenue
Kansas City, MO 64106-1453
816.654.7000 - Main Switchboard
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Email: admissions@kcumb.edu
www.kcumb.edu

Administrative offices are open weekdays from 8 a.m. - 4:30 p.m. Visitors are strongly encouraged to make appointments before visiting the campus to ensure the availability of the person they would like to see.

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2016-2017 Academic Calendars

Doctor of Osteopathic Medicine (COM)

Fall Semester (July 1 - December 31, 2016)

June 1	Semester Begins MS IV
June 1	MS IV Clerkships Begin
July 1	Semester Begins MS I, MS II, and MS III
July 1	MS III Clerkships Begin
July 4	Independence Day - KCU Closed
July 25 - 29	MS I Orientation and Registration
July 27	Community Service Day and KCU All-Campus Picnic
July 30	MS I White Coat Ceremony
August 1	MS II Registration
August 1	MS I and MS II Classes Begin
September 5	Labor Day - KCU Closed
November 24 - 25	Thanksgiving Holiday - KCU Closed
November 30	MS IV Last Day of Fall Clerkships
December 1	MS IV Spring Clerkships Begin
December 22	MS I and MS II Last Day of In-class Activity
December 23 - January 2	Winter Break
December 31	MSIII Last Day of Clerkships, Semester Ends

Spring Semester (January 1 – June 30, 2017)

January 1	MS III Spring Semester Begins
January 3	MS I and MS II Classes Begin
January 16	Martin Luther King, Jr. Day - KCU Closed
March 13-17	MS I Spring Break
April 3-7	MS II Spring Break
May 5	MS IV Clerkship Courses End
May 20	KCU Commencement
May 29	Memorial Day - KCU Closed
May 31	Last Day of Classes MS II
June 26	Last Day of Classes for MS I
June 30	MSIII Last Day of Clerkships, MSI, MSII, MS IV Semester Ends

* All dates and times are subject to change.

Note: Dual-degree students follow the above academic calendar for the College of Osteopathic Medicine.

For the COM course and examination schedule, please refer to the Outlook calendar.

Master of Arts in Bioethics (COM)

Fall Semester (July 1 - Dec. 31, 2016)

July 1	Semester Begins
July 4	Independence Day - KCU Closed
July 5	Bioethics Dual-Degree Program Classes Begin
September 5	Labor Day - KCU Closed
November 24 - 25	Thanksgiving Holiday - KCU Closed
December 19 - January 2	Winter Break
December 31	Semester Ends

Spring Semester (Jan. 1 – June 30, 2017)

January 3	Bioethics Dual-Degree Program Classes Begin
January 16	Martin Luther King, Jr. Day - KCU Closed
May 20	KCU Commencement
May 29	Memorial Day - KCU Closed
June 30	Semester Ends

All dates and times are subject to change.

Master of Science in Biomedical Sciences (COB)

Fall Semester (July 1 - Dec. 31, 2016)

August 3 - 4	Registration and Orientation
August 4	Pinning Ceremony
August 8	Classes Begin
September 5	Labor Day - KCU Closed
September 8 - 9	No Lecture - Student Study Days
September 12 - 16	Exam Week #1
October 20 - 21	No Lectures - Student Study Days
October 24 - 28	Exam Week #2
November 24 - 25	Thanksgiving Holiday - KCU Closed
December 8 - 9	No Lectures - Student Study Days
December 12 - 16	Final Exam Week
December 19 - January 2	Winter Break
December 31	Fall Semester Ends

Spring Semester (Jan. 1 – June 30, 2017)

January 3	Courses Begin
January 16	Martin Luther King, Jr. Day - KCU Closed
February 2 - 3	No Lectures - Student Study Days
February 6 - 10	Exam Week #1
February 27 - March 3	Spring Break
March 22	Research Symposium (Attendance Required)
March 23 - 24	No Lectures - Student Study Days
March 27 - 31	Exam Week #2
May 4 - 5	No Lectures - Student Study Days
May 8 - 12	Final Exam Week
May 19	KCU Commencement Activities (Attendance Required)
May 20	KCU Commencement (Attendance Required)
May 22	Comprehensive Reviews Begin
May 26	Comprehensive Reviews End
May 29	Memorial Day - KCU Closed
May 30	Scientific Seminars Begin
June 14	Scientific Seminars End
June 22	Comprehensive Exam #1
June 29	Comprehensive Exam #2 (Remediation)
June 30	Spring Semester Ends

All dates and times are subject to change.

About KCU

University Mission Statement

“Improving the Well-Being of the Communities We Serve.”

Kansas City University of Medicine and Biosciences is a community of professionals committed to excellence in the education of highly qualified students in osteopathic medicine, the biosciences, bioethics, and the health professions. Through lifelong learning, research, and service, KCU challenges faculty, staff, students and alumni to improve the well-being of the diverse communities it serves.

Vision Statement

- Become the most student-focused medical university in the nation
- Build the best university team in the profession
- Create the greatest workplace in the Midwest

Core Values

- *Integrity:* Demonstrating respect, honesty and professionalism
- *Compassion:* Caring for students, patients, colleagues and all humanity
- *Excellence:* Achieving quality in all that we do
- *Collaboration:* Working with others to recognize diverse perspectives and achieve mutual goals
- *Intellectual Curiosity:* Pursuing personal and professional growth
- *Innovation:* Embracing new practices to improve outcomes
- *Heritage:* Remain true to our Midwestern values and the guiding principles of osteopathic medicine

Strategic Goals

Five strategic goals form the foundations of this commitment:

- Goal 1: Enhance student success
- Goal 2: Enhance research activity
- Goal 3: Promote and increase internal and external service
- Goal 4: Promote sustainability across the institution
- Goal 5: Enhance institutional diversity

Accreditation

KCU is a private university accredited by the Higher Learning Commission (HLC) and recognized by the Coordinating Board of Higher Education for the Missouri Department of Higher Education.

The HLC is an independent corporation and one of two commission members of the North Central Association

of Colleges and Schools (NCA), which is one of the six regional institutional accreditors in the United States. The HLC accredits degree-granting post-secondary education institutions in the North Central region.

KCU-COM is also accredited by the Bureau of Professional Education of the American Osteopathic Association (AOA). The AOA is the official accrediting agency for osteopathic medicine approved by the United States Department of Education and by the Council of Post-Secondary Accreditation.

The AOA Commission on Osteopathic College Accreditation (COCA) serves the public by establishing, maintaining and applying accreditation standards and procedures to ensure that academic quality and continuous quality improvement delivered by the colleges of osteopathic medicine reflect the evolving practice of osteopathic medicine. The scope of the COCA encompasses the accreditation of the colleges of osteopathic medicine.

Questions or concerns regarding the University's accreditation should be directed to either the American Osteopathic Association or the Higher Learning Commission.

Department of Accreditation

American Osteopathic Association
 142 East Ontario Street
 Chicago, IL 60611-2864
 Phone (Toll-free): 1.800.621.1773
 Fax: 312.202.8200
predoc@osteopathic.org

The Higher Learning Commission

230 South LaSalle St., Suite 7-500
 Chicago, IL 60604-1411
 Phone (Toll-free): 1.800.621.7440
 Fax: 312.263.7462
complaints@hlcommission.org

University History and Programs

College of Osteopathic Medicine

As the state's largest medical school and the oldest in Kansas City, Mo., KCU's College of Osteopathic Medicine (COM) has built a tradition of excellence dating back to 1916. COM is known for an educational environment emphasizing both academic excellence and the education of caring, compassionate physicians, who place patients' needs above all other concerns. In 2015, COM received pre-accreditation status from the COCA for the establishment of an additional location in Joplin, MO. The anticipated opening date is August 2017.

Doctor of Osteopathic Medicine

Through COM's progressive and innovative curriculum, medical students develop clinical decision-making skills using an integrated, patient-centered approach to medicine. Students pursuing the four-year doctor of osteopathic medicine degree consistently perform above the national average on all Comprehensive Osteopathic Medical Licensing Examination (COMLEX) board examinations.

Additional details regarding the doctor of osteopathic medicine program and its curricular requirements may be found in the [COM Curriculum](#) section of this catalog.

Master of Arts in Bioethics

KCU's Master of Arts in Bioethics (Kansas City campus) provides students with a broad orientation to the interdisciplinary field of bioethics, including both philosophical and religious ethics, as well as contributions from the social sciences and medicine.

The program prepares students to deal with critical ethical issues, such as end-of-life care, health-care equity and public policy, the globalization of medicine, and the relationship between environmental quality and human health. It is designed to accommodate students with diverse backgrounds and interests, including practicing physicians, nurses, lawyers, chaplains and other health-care professionals, many of whom regularly encounter ethical challenges in their work.

Students must complete 30 semester hours of coursework, culminating with a project. Additional details regarding the Master of Arts in Bioethics program and its curricular requirements may be found in the [COM Curriculum](#) section of this catalog.

College of Biosciences

In 2004, KCU (Kansas City campus) expanded its mission to include greater emphasis on research and discovery and established the College of Biosciences (COB). In 2006,

COB conferred its first Master of Science in Biomedical Sciences degree.

Master of Science in Biomedical Sciences

There are two options for students interested in pursuing the accredited Master of Science in Biomedical Sciences degree. Individuals may apply for the one-year track or the two-year research track program.

The one-year track includes coursework in anatomy, biochemistry, embryology, epidemiology, genetics, microbiology, immunology, molecular biology, physiology, and histology. Emphasis is placed on state-of-the-art research methodologies and protocols, regardless of the field one chooses to enter.

The two-year research track is designed for individuals interested in careers as research scientists in major laboratories. Additional details regarding the Master of Science in Biomedical Sciences program and its curricular requirements may be found in the [COB Curriculum](#) section of this catalog.

Dual-Degree Programs

KCU (Kansas City campus) offers a variety of options for those interested in enhancing their educational experiences.

DO/Master of Arts in Bioethics

KCU's launch of the region's first graduate-level program in bioethics offers COM medical students the opportunity to concurrently earn a Master of Arts in Bioethics.

Students must complete 30 semester hours of bioethics coursework, culminating with a capstone project or comprehensive examination. The Master of Arts in Bioethics program and course schedule have been tailored to allow COM medical students to complete the program in the same four-year time frame as the doctor of osteopathic medicine program.

COM students enrolled in the dual DO/MA degree must be approved by the COM Dean to pursue and continue in the program. An application process is made available at the end of the first semester of medical school. Students must remain in good academic standing in COM or they may be required to withdraw from the MA portion of the program. Grading is HP/pass/fail.

DO/Master of Biosciences with Emphasis in Clinical Anatomy Research

The master's degree is granted by COB as an MS in Biomedical Sciences with an emphasis in Clinical Anatomy Research. The objective of the graduate program in Clinical Anatomy Research is to provide advanced education in the range of clinical anatomy disciplines. Academic courses include introduction to epidemiology, topics in histology, topics in human embryology, and radiological anatomy. Students will develop teaching and research skills; and prepare graduates for competitive residencies in surgery, radiology and other related specialties.

DO/Master of Business Administration in Healthcare Leadership

In partnership with Rockhurst University Helzberg School of Management, one of the nation's leading business schools, KCU medical students may pursue a Master of Business Administration (MBA) in healthcare leadership. This program and course schedule have been tailored to allow COM medical students to complete the program in the same four-year time frame as the doctor of osteopathic medicine program.

The DO/MBA dual-degree program allows medical students to develop leadership and management skills and learn the complexities of business. Courses include topics such as accounting, economics, finance, human resources, information technology, law, marketing and management.

Tuition, financial aid and loan arrangements for the DO/MBA dual-degree program are coordinated by KCU. However, Rockhurst University manages the registration, curriculum content, and faculty and graduation requirements of the MBA components of the program and awards the MBA degree.

Dual-degree MBA applicants must be approved for the program by the COM Dean in order to pursue this area of study. An application process is made available at the end of the first semester of medical school. Students must maintain a minimum cumulative GPA of 3.0, and pass all courses within the COM or they may be required to withdraw from the MBA portion of the program. For additional details regarding the DO/MBA program, please contact the Rockhurst University Graduate College or refer to the website: <http://www.rockhurst.edu/helzberg-school-of-management/health-care-leadership-mba/>.

Honors Curriculum

Global Medicine

The Global Medicine Honors Track is an elective honors track for those students who have a strong desire to serve in an international capacity. This track provides exposure and clinical education surrounding multiple aspects of global medicine. It is designed to span 3.5 years of formal osteopathic education, which will culminate with clinical international medical education experiences. During the first two years of medical school, students will pursue additional hours of medical education, which include the principles and goals of global health, the burden of disease in both developing and already developed countries, comparative health systems, global ethics, case studies, and other selected topics in global medicine. Acceptance to the global medicine track involves an application process that occurs during the end of the first semester. Students must be capable of handling the extra workload and participate in all activities. Approximately 12 students will be selected for each class. Grading is pass/fail.

Military Medicine

The Military Medicine Honors Track is a specialized curricular offering for Health Professions Scholarship

Program (HPSP) student recipients and National Guard members who will serve as military physicians following medical school graduation. This specialty track provides longitudinal learning opportunities uniquely aligned to address Medical Corps officer duties and obligations. The military track consists of offerings in addition to the regular COM curriculum, covering topics such as: military medicine, career opportunities, leadership, health/wellness, trauma and wound care, disaster and combat medicine, triage, medical evacuation, operational medicine, tropical medicine, surgical skills, social adjustment, and support systems. The educational experiences will be delivered through didactic presentations, hands-on cadaver surgical skills sessions, cut-suit simulation surgical skills sessions, and hyper-realistic simulated field training. Grading is pass/fail.

Specialty Honors Tracks

While most students do not have a firm commitment to a specialty of interest until well into their third year, some students come to medical school already having developed a desire to enter a specific career specialty. These students may apply for a Specialty Honors Track.

Specialty Honors Tracks have a limited number of pre-selected rotation patterns uniquely designed for a specific career specialty. Specialty Honors Track students are enrolled in a tailored third-year curriculum focused on a pre-selected specialty. Students will be selected for the Specialty Honors Track not only because of their interest, but also for their strong academic record in the first two years.

Specialty Honors Tracks include the traditional core rotations plus possible opportunities as listed below.

Family Medicine. Family medicine, radiology, sports medicine, or other primary care rotations.

Emergency Medicine. Toxicology, emergency medicine, pediatric emergency medicine, and radiology, trauma, or sports medicine.

Orthopedics. Trauma surgery, general orthopedics, or sports medicine.

Obstetrics and Gynecology. High risk obstetrics, gynecology-oncology, and adolescent health.

Pediatrics. Pediatric emergency medicine, NICU, pediatric cardiology, and PICU.

Internal Medicine. Gastrointestinal, cardiology, hematology-oncology, or infectious disease.

Surgery. Trauma surgery, pediatric surgery, or neurosurgery.

Psychiatry. Under-served populations, child and adolescent psychiatry, and addiction medicine.

Admissions

General Introduction

KCU is a private institution and encourages applications from qualified students who are interested in pursuing a career in osteopathic medicine or biomedical sciences, regardless of their state of permanent residence.

The Office of Admissions is one of four service units within the department of Enrollment Management, and it prides itself in delivering professional service to all applicants. The office is mindful that for applicants, any lack of knowledge about the way the application process works can be stressful. Consequently, applicants are encouraged to visit the KCU website (www.kcumb.edu) to review the application process and most frequently asked questions for clarification. Applicants are also welcome to contact the Office of Admissions directly.

Admissions personnel are available to respond to your calls between 8 a.m. and 4 p.m. Central Time at 877.425.0427 or 816.654.7160.

Authorization to Release Applicant Information

The Federal Privacy Act specifies that only the applicant has access to the application material and the status of his/her application. If the applicant wants another party or multiple parties (i.e., parent, spouse, advisor, physician, friend) to check the status of his/her application, the applicant is required to submit, in writing, a signed waiver giving personnel of KCU permission to discuss all details of the application with each said individual.

College of Osteopathic Medicine

Immunizations

Medical school applicants and enrolled medical students must satisfy all requirements for immunizations at the time of admission and throughout their medical school career. Student physicians, interacting with patients in hospitals and in clinics, are exposed to a variety of infectious agents. Although universal precautions are required in many of these encounters, the risk of infection is still increased. In order to protect the student physician, and to prevent the spread of disease to patients, student physicians must satisfy the immunization requirements. Failure to do so will prevent matriculation or, in the case of an enrolled student, lead to dismissal.

Academic Requirements: COM Entering Class Applications

The *minimum* academic requirements for admission to the first-year class are:

1. The Medical College Admissions Test (MCAT). The MCAT is administered electronically throughout the year. If applying for the 2016 entering class, only May 2013 through September 2015 scores will be accepted. To register for the MCAT, apply online at www.aamc.org. Direct questions via email to mcats_reg@act.org or call 319.337.1357. Applicants applying through KCU's Partnership Program are not required to take the MCAT exam.
2. A baccalaureate degree earned from a regionally accredited college or university. Exceptions are only made for those students accepted through our Partners Program (see Admissions Partnerships on next page).
3. Satisfactory completion, with a grade of C or higher, of the following college courses, including laboratory work:
 - a. Biochemistry (3 semester hours) (in addition to 13 hours of Chemistry)
 - b. Biological Sciences (12 semester hours)
 - c. Chemistry (13 semester hours)
 - d. English Composition and/or Literature (6 semester hours)
 - e. Physics (8 semester hours)
 Total: 42 semester hours

While not required for admission, additional preparation in genetics, immunology, histology, or embryology will enhance fundamental preparation for the rigorous medical curriculum and are strongly encouraged.

The ability to use a personal or network computer has become an integral part of the KCU curriculum and is becoming a clinical necessity. Each entering student must have a good working knowledge of common PC use and applications. Laptops are strongly encouraged for third-year students. Students will be provided an iPad at matriculation unless they have previously received one from KCU. A laptop is required for clinical examinations.

Substitutions or Waiver of Admissions Requirements

Prerequisite course substitutions are permitted in some situations. Often undergraduate students have taken courses such as molecular or cellular biology, which may fulfill all or part of the prerequisite requirements for biochemistry. An applicant may request substitution of undergraduate coursework for KCU's biochemistry prerequisites by forwarding one of the following to the Office of Admissions:

- A faculty letter detailing course content
- A copy of the course description from the *University Catalog*
- A copy of the course syllabus

Documentation providing the most detail will expedite the review process. For biochemistry, the information should indicate the applicant has studied intermediary metabolism or more specifically, lipid metabolism. Applicants will be notified of decisions upon review of course content. Please

note that if a substitution is granted, the substituted course will not be counted toward the fulfillment of any other prerequisite.

Any request for substitutions or waiver of any of the admission requirements must be submitted in writing to the director of admissions stating the request, rationale for the request and supporting documentation.

Admissions Partnerships

KCU has developed partnership programs with select educational institutions, which have exceptional premedical programs. Partnership educational institutions have developed a prescribed educational program sequence, and students enrolled at each institution petition to matriculate through the partnership program sequence. The educational program sequence requires the completion of all medical school prerequisites in the first three years of matriculation (minimum of 90 semester or 135 quarter credits), while maintaining a cumulative grade point average of 3.25 and a minimum 3.5 science GPA.

Students from these partner program institutions, who meet these educational standards and who have earned a minimum ACT score of 28, are eligible to petition for acceptance to KCU through their undergraduate pre-health advisor during their sophomore year. Applicants who are offered a seat in COM as full-time first-year students will matriculate at the end of their junior year. The Medical College Admissions Test (MCAT) requirement is generally waived for these applicants. Partner institutions include Avila University, Central Methodist University, Culver-Stockton, Drury University, Harris-Stowe State University, Missouri Southern State University, Missouri Western State University, Pittsburg State University, Rockhurst University, University of Missouri – St. Louis, University of St. Mary and William Jewell College. For additional information, please contact the KCU director of admissions.

Application Process

Step 1: AACOMAS Application

AACOMAS Online is a web-based application for individuals seeking admission to colleges of osteopathic medicine. The application will allow prospective osteopathic medical students to submit their application to AACOMAS through a secured web server. AACOMAS Online will allow the user to create an account and spend multiple sessions completing their application. Applicants will be able to update their address, telephone number, certain biographical information and submit application fees online. Applicants will be notified by electronic mail when their materials have been received by AACOMAS.

AACOMAS Online is available for the 2016 entering class May 2015 through March 15, 2016. All application materials, including detailed instructions, can be accessed through the AACOM website, www.aacom.org. Applicants must request that official transcripts from all colleges and universities attended be mailed directly from the institution to the AACOMAS office. MCAT scores must also be forwarded directly to AACOMAS from the MCAT office. Mail transcripts and MCATs to:

AACOMAS

5550 Friendship Blvd., Suite 310
Chevy Chase, MD 20815-7231
Phone: (301) 968-4190

AACOMAS gathers all the necessary material about each applicant and transmits the information in a standardized format to the college of osteopathic medicine selected by the applicant. AACOMAS has no participation in the selection process.

The applicant will receive from AACOMAS a computer-generated applicant profile with a calculation of GPA and MCAT averages. KCU also will receive the applicant profile, accompanied by a photocopy of the AACOMAS application and personal statement. KCU conducts an initial review of the transmitted AACOMAS application, MCAT scores and academic records to determine which applications will be further processed.

Step 2: KCU College of Osteopathic Medicine Secondary Application

Applicants meeting the minimum initial review criteria will be invited to complete KCU's COM Secondary Application. Minimum requirements for each incoming year can be found on the website at <https://www.kcumb.edu/admissions/medical-students/requirements/>. The minimum criteria for automatic receipt of a COM Secondary Application:

- 501 or 25 MCAT score
- 3.25 Science GPA
- 3.25 Cumulative GPA

Applicants are encouraged to include the scheduled MCAT test dates on the AACOMAS application to indicate the intent of taking or retaking the exam.

Applicant Protocol of the American Association of Colleges of Osteopathic Medicine

Applicants aspiring to become osteopathic physicians (DO) are expected to act professionally in their interactions with the American Association of Colleges of Osteopathic Medicine Application Service (AACOMAS) and with colleges of osteopathic medicine. Responsibility, respect, good judgment and cooperation are qualities valued by the osteopathic profession and applicants are expected to demonstrate these qualities throughout the application process.

1. Applicants are responsible for becoming familiar with admission requirements, which includes all required coursework, following application procedures and meeting all deadlines at each school to which they apply.
2. Applicants are responsible for the collection and timely submission of supplemental applications, letters of evaluation, transcripts and all applicable fees.
3. Applicants are responsible for reporting and updating any changes in the initially submitted application (e.g., address, telephone numbers, academic status and state of residence).
4. Applicants are responsible for responding promptly,

either to accept or to decline all interview invitations and offers of admission.

5. Applicants who have made a final decision on the medical school they plan to attend have the obligation to promptly withdraw their applications from all other schools.
6. Applicants may hold only one acceptance after May 15.

Application Schedule

Applicants are encouraged to begin the application process a year prior to matriculation. The following represents a monthly guide for application preparation.

May

- Contact all colleges and universities attended and have official transcripts forwarded directly from the education institution to AACOMAS.
- Begin AACOMAS application.
- Submit application.

August

- Invitations for completion of the Secondary Application are sent to qualified applicants upon receipt of the AACOMAS application in the Office of Admissions.*

September

- Personal interviews begin

March 1

- AACOMAS application deadline
- KCU's COM Secondary Application deadline

* Secondary applications are accepted and processed until all interview positions have been filled.

Required Supplemental Materials

The following supplemental materials are required as part of the application process for KCU's COM:

1. A completed KCU COM Secondary Application. (\$50 non-refundable fee waived if applicant has received fee waiver for AACOMAS fees.)
2. Letters of recommendation/evaluation from each of the following sources:
 - a. A physician (preferably an osteopathic physician);
 - b. A pre-medical source. This could be an advisor's letter, a composite evaluation or evaluations from a committee. If a pre-med source is not available, a letter from a science faculty member or advisor may be submitted.

Note: Evaluations must be written within the two years prior to making applications. Example: If applying beginning May 2016, letters must be dated no earlier than May 2014.

3. Applicants who anticipate making application for military scholarships should make arrangements to obtain additional copies of evaluation letters. Military scholarship committees require original letters for this purpose.

Applicants anticipating applying for these scholarships should obtain additional evaluation letters from evaluators and have the letters placed in officially sealed envelopes.

4. Applicants who are not U.S. citizens or who do not hold permanent residency status must provide a copy of their immigration documentation to the Office of Admissions, including a copy of their F-1 visa, and also proof of their ability to finance the entire length of their academic program.
5. Applicants with college credit at foreign institutions, or institutions teaching in a language other than English, will be required to submit official foreign transcripts for evaluation services. Applicants should seek additional information about this process from the AACOMAS website. KCU will accept the foreign transcript evaluation report as fulfilling admission criteria only if the evaluation service has indicated that the required coursework is comparable to a regionally accredited U.S. college or university.

Note: International applicants who are in pending status for permanent U.S. residency are not eligible for admission.

Applicant Review and Notification

The major criteria for rating applicants include academic excellence and non-academic achievements. Academic excellence is measured by an assessment of the results of the MCAT, grades and grade point averages, modified by such information as the degree of difficulty of the program in which the applicant studied. Non-academic achievements also are considered, as well as a candidate's ability and desire to fulfill the mission of the University. The Admissions Committee looks for the following non-academic achievements:

- Leadership roles
- Involvement in community organizations/projects
- Involvement in research activities
- Commitment to an organization(s) for more than two years
- Participation in a domestic/international mission trip
- Work experience in the medical field (e.g., EMT, Nurse, etc.)
- Medical field volunteer experiences
- Shadowing of an osteopathic or allopathic physician

Following the above assessment, selected applicants are invited to visit the campus for a formal personal interview. Applicants are evaluated on the following criteria:

- Professional demeanor
- Problem-solving skills
- Coping skills

After the interview, the Admissions Committee reviews the applicant's file and then makes recommendations to the COM dean for consideration. Applicants are notified as soon as a final admission decision has been made.

Non-U.S. Citizens/International Applicants

An international applicant is an applicant who is not a United States citizen or permanent resident and requires a student visa (F-1) to study in the United States. International students applying for admission to KCU must meet all general requirements for admission as stated in this catalog and other admissions publications.

Note: International applicants who are in pending status for permanent U.S. residency are not eligible for admission.

International applicants whose native language is not English must also demonstrate objective competency in English by either: (1) completing the Test of English as a Foreign Language (TOEFL) within two years of the applicants anticipated matriculation date with a minimum score of 79 for the IBT (Internet-Based Testing) and a minimum score of 26 on the speaking component; or (2) successful completion of a minimum of 30 semester hours of coursework from a regionally accredited college/university in the United States, or from a recognized post-secondary Canadian institution that uses English as its primary language of instruction and documentation, not more than three years prior to the applicants anticipated matriculation. Of the 30 semester hours, 15 hours must be in the sciences, six (6) hours in non-remedial English and three (3) hours in speech/public speaking.

Once an offer of admission is extended, international applicants must provide evidence of sufficient funding to cover the entire length of the program. The applicant must complete and submit a Financial Responsibility Form with all supporting bank and/or financial documentation to the KCU Office of Admissions. Once received, the financial documentation is reviewed by the Office of Finance for verification and is subject to approval before the issuance of an I-20 form by the Registrar. International students are held to the same matriculation requirements as all other students.

Matriculation Requirements

Acceptance and Matriculation Fee

An acceptance fee and a matriculation deposit are required from successful applicants. (See [Tuition, Fees and Expenses](#).)

Medical Equipment

Students are required to have certain medical equipment when starting medical school. Information is sent from the Office of Admissions to students prior to matriculation concerning specific equipment and pricing. Medical equipment is typically priced between \$900 - \$1,100 and can be purchased through the KCU Campus Store.

Official Transcripts

All incoming students are required to submit official transcripts from all universities or colleges attended directly to the Office of Admissions. Transcripts submitted to AACOM within the application process are not forwarded to the university. Acceptance is conditional until all official transcripts are received from schools attended. Transcripts must be on file prior to matriculation. It is expected that all

required coursework listed on the AACOMAS application will be completed with a grade of C or higher, and that expected degrees are completed by July 1 of the matriculation year at KCU.

Note: Matriculation will be denied to applicants who have failed to maintain a good record of scholastic performance and/or personal conduct between the time of their acceptance and their matriculation at the University. Discovery following admission or matriculation of intentional misrepresentation or omission of any information used in the application process or omission of information relative to scholastic records or test records may lead to student dismissal. The University reserves the right to deny admission to any applicant for any reason the University deems sufficient.

Required Textbooks

The lists of required textbooks for students are posted on the library website. Students are responsible for purchasing and having all textbooks or e-books on the provided lists.

Criminal Background Check

Prior to matriculation, all students matriculating into COM must have a criminal background check performed at their own expense. The background check will be performed by a certifying organization retained by KCU. The purpose of the background check is to satisfy federal and state requirements for individuals participating in clinical activities involving patient care, including clinical clerkships and early clinical experiences.

Students will have a subsequent background check prior to clinical clerkships. Additional background checks may be required prior to graduation from COM. The background checks will be performed at the student's expense and will be conducted in accordance with federal and state laws.

Immunization and Health Requirements

Students who project themselves as future healthcare professionals are obligated to protect their health and the health of their future patients. All matriculating students at KCU are required to be vaccinated in accordance with the Centers for Disease Control and Prevention (CDC) immunization guidelines. These guidelines change and are updated periodically, and applicants and students are expected to be knowledgeable regarding the current CDC guidelines for healthcare workers found on their website: www.cdc.gov. KCU students are responsible for maintaining a current and thoroughly documented official record of immunizations at all times. More information is available at <http://www.kcumb.edu/admissions/medical-students/requirements/>.

In addition, all students are required to maintain personal health insurance. COM students must submit proof of personal health insurance to the Office of Admissions before matriculating and to the Office of Clinical Education (OCE) and again before beginning clinical clerkships. COM students must report any lapse in coverage or change in health insurance to OCE.

Students who fail to meet these guidelines will not be allowed to matriculate or may jeopardize their eligibility for

continued enrollment.

Dispute Resolution Policy

From time to time, disputes may arise between the student and KCU. Notwithstanding issues involving Title IX, student discipline and grievances are handled utilizing Student Disciplinary Committee and Grievance Procedures located in the Student Handbook. For issues that are not resolved by a Grievance Procedure or Student Disciplinary Committee or for other disputes where the Grievance Procedure or Student Disciplinary Committees are not a reasonable option for resolution, KCU will look to binding arbitration for dispute resolution.

Arbitration is a dispute resolution process in which the disputing parties present their case to a third party intermediary who considers all of the evidence and then makes a decision for the parties. Binding arbitration simply means that the decision is binding for both parties. Arbitration is a very common approach for resolving various types of disputes and KCU requires that all students who apply for admission agree to settle any disputes that cannot be resolved via university means (Student Disciplinary Committee or Student Grievance Procedures) using binding arbitration rather than through a court system.

Binding Arbitration Agreement

By pursuing enrollment at KCU, Student agree that any dispute arising from his or her recruitment, enrollment, attendance or education at KCU or any claim, no matter how described, related in any manner, to any act or omission regarding the student's relationship with KCU, that is not resolved by a Grievance Procedure or Student Disciplinary Committee, shall be resolved by binding arbitration under the requirements of the Federal Arbitration Act. The American Arbitration Association (AAA) in Kansas City, Missouri, will conduct the binding arbitration under its commercial rules. All determinations as to the enforceability and effect of this arbitration agreement shall be decided by the arbitrator, and not by a court. Any award issued as a result of the binding arbitration may be entered in any court having jurisdiction.

- Terms of Arbitration
 - Both Student and KCU irrevocably agree that any dispute between them shall be submitted to arbitration. Neither the Student nor KCU shall file or maintain any lawsuit in any court against the other, and agree that any suit filed in violation of this Agreement shall be dismissed or stayed by the court in favor of an arbitration conducted pursuant to this Agreement.
 - The costs and fees for arbitration will be governed by the American Arbitration Association's Employment Arbitration Rules. If neither party is totally successful in the prosecution or defense of its claims, each party will bear its own costs of arbitration unless the arbitrator determines that a more reasonable and equitable division of costs should be imposed.
 - The arbitrator's decision shall be set forth in writing and shall set forth the essential findings and conclusions upon which the decision is

based.

- Any remedy available from a court under the law shall be available in the arbitration
- Procedure for Filing an Arbitration
 - Students are strongly encouraged, but not required, to utilize the Grievance Policy described in the Catalog and Student Handbook, prior to filing arbitration.
 - A student desiring to file arbitration should first contact the KCU President, who will provide the student with a copy of the AAA Commercial Rules. A student desiring to file arbitration should then contact the American Arbitration Association in Kansas City, Missouri, which will provide the appropriate forms and detailed instructions. The student should return this form to the AAA.
- Acknowledgment of Waiver of Jury Trial and Availability of AAA Rules
 - The student acknowledges that he or she understands that both KCU and the student are irrevocably waiving rights to a trial by jury and are selecting instead to submit any and all claims to the decision of an arbitrator instead of a court. The student understands that the award of the arbitrator will be binding and not merely advisory.

Transfer Admission Policy (COM)

Students enrolled at an AOA-COCA accredited osteopathic medical school may be considered for transfer admission into the second or beginning of the third year of medical studies at KCU upon completion of the equivalent level of medical education as currently structured at KCU and provided that a vacancy exists. Transfer applicants must be in good academic standing at the school where they are currently enrolled, be eligible for continued enrollment/readmission, and present a valid and compelling reason for transfer.

Eligibility Guidelines

- Applicants must be in good academic standing at the osteopathic medical school currently attending (or previously attended in event of a withdrawal) and be eligible for continued enrollment or readmission.
- Applicants interested in transferring to KCU as a third-year medical student must have passed COMLEX Level 1.
- Applicants who have been dismissed by another osteopathic medical school are not eligible for transfer.
- Applicants from international or allopathic institutions, or from other health related professions are not eligible for transfer admission. Such individuals must apply through AACOMAS for admission as a first-year student.

Requirements

- COM Secondary Application and fee;
- A personal statement presenting valid and compelling reasons for admission by transfer;
- Official transcripts from all previously attended

colleges;

- A letter of evaluation and support from the dean at the current/previous osteopathic medical school;
- Official scores for all MCATs taken;
- Official scores for all COMLEX exams taken (if applicable);
- A copy of the catalog from the osteopathic medical school transferring from;
- Any documentation, in addition to the catalog, which may be needed to demonstrate satisfactory completion of the equivalent curricular content at KCU, including course syllabi for courses in clinical skills, OPP and OMM;
- Two letters of recommendation.

Procedures and Deadlines

- Applicant completes a COM Secondary Application indicating interest as a transfer student and pays application fee.
- Deadline for receipt of application and fee is Feb. 1 of the year of the proposed matriculation.
- Deadline for receipt of all supporting documentation is March 1 of the year of the proposed matriculation.
- Office of Admissions reviews completed application for minimum admission qualifiers. If minimum qualifiers are met, the Office of Admissions contacts the vice provost to confirm available seat.
- If space is available, the applicant's curricular content from the other osteopathic school is reviewed by the COM dean and/or faculty with expertise in the areas of concern to ensure content fulfills the minimum curriculum requirements of KCU's COM and to determine transfer credit equivalents.
- If curriculum content is appropriate for transfer consideration, applicant is invited for a personal interview.
- Interview team observations and applicant file is forwarded to the Admissions Committee for consideration.
- If the Admissions Committee recommends transfer admission, the applicant's file is forwarded to the COM dean for final approval and confirmation of transfer credit equivalents. Transfer credit accepted for COM is posted to the KCU transcript as a semester credit value summary with a transfer GPA, however, transfer credit may not be utilized for the determination of graduation honors.
- Only applications that are complete and received by the advertised deadline will be considered. No exceptions or deadline extensions will be approved. Incomplete applications will be withdrawn from consideration.
- Applicants who submit a completed application for transfer admission will receive written notification of the decision rendered by the COM dean from the Office of Admissions.

Potential transfer students should request application information from KCU's Office of Admissions. Telephone:

816.654.7162 between 8 a.m. and 4 p.m. Central Time.

COM Health and Minimum Technical Standards

More information about this policy is available at <http://www.kcumb.edu/admissions/medical-students/requirements/>

All candidates and enrolled medical students must meet health and technical standards to be admitted to, participate in, and graduate from the medical education programs of KCU. Because the Doctor of Osteopathic Medicine (DO) degree signifies that the holder is a physician prepared for entry into the practice of a broad range of medical practice, and that he/she has met the requirements to enter a variety of diverse postgraduate training programs, KCU graduates must have the knowledge, skill, and capability to fully perform and function in a broad variety of clinical situations. KCU students and graduates are trained and must demonstrate competency to provide a wide spectrum of acute and chronic patient care, including emergency care in a variety of settings (The emergency room, the surgery suite, in the hospital, in a clinic, and as a first responder to a disaster are a few examples).

A candidate as well as an enrolled medical student for the DO degree must have abilities and skills in the areas described below and meet the standards described as an obligation to patients that they will interact with as a student physician and to society as the recipient of a DO degree upon graduation.

Reasonable accommodations will be made as required by law; however, the candidate/student must be able to meet all technical standards with or without reasonable accommodation. Please refer to the section on the Americans with Disabilities Act. The use of a trained intermediary necessarily requires that a candidate's judgment be mediated by someone else's power of selection and observation, and is not a permissible accommodation. Enrolled students who are unable to meet these standards may be asked to appear before the Student Performance Committee and may be subject to dismissal. Requests for accommodations should be directed to the KCU Disability Services Coordinator. Further information can be viewed at <http://www.kcumb.edu/admissions/medical-students/requirements/policies/special-accommodations/>

Immunizations

Candidates and enrolled medical students must satisfy all requirements for immunizations at the time of admission and throughout their medical school career. Student physicians, interacting with patients in hospitals and in clinics, are exposed to a variety of infectious agents. Although universal precautions are required in many of these encounters, the risk of infection is still increased. In order to protect the student physician, and to prevent the spread of disease to patients, student physicians must satisfy the immunization requirements. Failure to do so will prevent matriculation or in the case of an enrolled student, lead to dismissal.

Observation

Physical diagnosis is based upon a physician's ability to

see, hear, touch, and interact with patients. Candidates and enrolled student physicians must be able to directly observe patients in order to diagnose. Direct observation of body stature, body position, ambulation, facial expression, skin color, range of motion, eye color, etc. are just a few examples of the necessary capability a student physician must have to master the requirement of physical diagnosis. Candidates must be able to observe demonstrations, experiments, and patients in the basic and clinical sciences. This includes but is not limited to the ability to observe a patient accurately at a distance and close at hand. Observation requires the functional use of the sense of vision and somatic sensations.

Communication

Candidates and enrolled student physicians must be able to speak, hear and observe patients in order to elicit information; describe changes in mood, activity and posture; and perceive nonverbal communications. A candidate must be able to communicate effectively and sensitively with patients and other health care professionals. Student physicians must be able to hear and speak in emergency situations (a member of a cardiac arrest team, emergency surgery, trauma in the emergency room; are some examples). Communication (in English) includes speech, hearing, reading and writing. A candidate must be able to communicate effectively and sensitively in verbal and written form with all members of the health care team.

Sensory/Motor

Candidates and enrolled student physicians must have sufficient motor function to elicit information by palpation, auscultation, percussion as well as other diagnostic and therapeutic maneuvers. A candidate should be able to perform basic laboratory tests (urinalysis, CBC, blood glucose testing, etc.), carry out diagnostic procedures (endoscopy, paracentesis, etc.), and read EKGs and X-rays. A candidate should be able to execute motor movements reasonably required to provide general care, osteopathic manipulation and emergency treatments to patients. Examples of emergency treatment reasonably required of physicians are cardiopulmonary resuscitation, administration of intravenous medication, application of pressure to stop bleeding, opening of obstructed airways, suturing of simple wounds, the Heimlich maneuver, and performance of basic obstetric maneuvers are some examples. Such actions require coordination of both gross and fine muscular movements, the ability to stand, and equilibrium with the functional use of the senses of touch and vision. Candidates must be able to lift a minimum of 40 lbs. and stand for a minimum of one hour.

Conceptual, Integrative and Quantitative Abilities

Candidates and enrolled student physicians must possess conceptual, integrative and quantitative abilities, including measurement, calculation, reasoning, analysis and synthesis. Problem solving, the critical skill demanded of physicians, requires all of these intellectual abilities. In addition, candidates must be able to comprehend three-dimensional relationships and to understand the spatial relationship of structures. Candidates and enrolled student physicians must be able to sit in a classroom and participate in a full eight-hour day. The practice of medicine

requires periods of distinct concentration in surgery, trauma, emergency room care, and other patient settings. Candidates and enrolled student physicians must be capable of extended periods of intense concentration and attention.

Behavior and Social Attributes

Candidates and enrolled student physicians must have the emotional health required for full use of the intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the diagnosis and care of patients and the development of mature, sensitive and effective relationships with patients. Candidates and enrolled student physicians must be able to tolerate physically and mentally taxing workloads and to function effectively under stress. They must be able to adapt to changing environments, display flexibility, and learn to function in the face of uncertainties inherent in the clinical problems of many patients. Compassion, integrity, concern for others, interpersonal skills, interest, and motivation are all personal qualities that will be assessed during the admission and educational processes.

Osteopathic Principles and Practices (OPP) and Principles of Clinical Medicine (PCM) Laboratory Policies

All courses that include osteopathic manipulation and clinical skill courses include didactic presentations, demonstrations, practical laboratory experiences and clinical opportunities. During these activities, students establish their knowledge and ability to recognize and utilize the relationships between structures and function that are integral to osteopathic medicine.

The student must develop the knowledge and skills necessary to integrate the principles and coordinate the proper osteopathic and clinical techniques to prevent and treat pathology and dysfunction. Concurrently, the students will learn other medical approaches to the treatment of disease and dysfunction in the systems courses. Each course provides education on the principles, philosophy and history of osteopathic medicine, examination and evaluation of the patient, and the proper selection and application of osteopathic treatments and techniques. These courses require the active participation of all students in the laboratory setting where the student, through the active and tactile examination of others along with reciprocal examination, will learn and demonstrate the ability to evaluate and proficiently treat their future patients.

The training of an osteopathic physician requires the ability to perform tactile examinations and osteopathic manipulative techniques on members of the same and opposite sex. The training of an osteopathic physician also requires that a student experience and understand tactile diagnostic exercise and manipulative treatment. Students are required to participate both as patients and as trainees in the OPP laboratory and PCM laboratory, and examine and be examined by members of the same and opposite sex.

A graduate from the College of Osteopathic Medicine has the ability to apply for licensure as a physician in all fifty states. Their license is not restricted to any one particular sex, and candidates for graduation must demonstrate the

ability to practice medicine on both males and females.

Housing

KCU does not provide housing; however, the KCU Office of Admissions assists students in their search for housing.

Master of Arts in Bioethics

Some of today's most critical challenges in health care revolve around ethical and humanistic issues. The Master of Arts in Bioethics trains future physicians, researchers, and other health-care providers to become leaders on hospital ethics committees and other professional venues.

Completion of a Master of Arts in Bioethics will enhance medical students' abilities to obtain scholarships, internships, and residencies. The program assists those already working in health professions by improving their knowledge and skills, positioning them to become change agents and ethics leaders in the institutions they serve.

After completing the program in bioethics, a graduate will:

1. Demonstrate critical thinking, including ethical decision-making skills;
2. Apply various methodologies in evaluating bioethical situations;
3. Be proficient in and demonstrate ethical practices in clinical and other settings;
4. Integrate humanism, professionalism and cultural-competence when working with diverse populations;
5. Communicate effectively in written, oral, and interpersonal contexts.

KCU provides two avenues for students to earn the master of arts in bioethics degree.

- DO/MA Dual-Degree Program: Students in this program complete both their doctor of osteopathic medicine and master of arts in bioethics in four years.
- Career Enhancement Program: Students in this track generally work full-time while pursuing their Master of Arts in Bioethics on a part-time basis.

This specialized bioethics program will prepare students to become leaders on hospital ethics committees and among their colleagues at academic medical centers, clinics, group practices and hospitals. In addition, completion of the bioethics degree will demonstrate that students, especially those in the dual-degree program, develop specialized clinical skills, which will enhance their applications for scholarships, internships and residencies.

College of Biosciences

Admission Requirements: Master of Science in Biomedical Sciences

Requirements for admission to the Master of Science in Biomedical Sciences - Kansas City Campus (either the one-year or two-year tracks):

- Bachelor's degree from an accredited college or university;
- Completion of 13 hours of chemistry (including organic chemistry), 12 hours of biological sciences, 8 hours of physics and 6 hours of English;
- Science GPA of greater than 3.0 on a 4.0 scale;
- Graduate entrance examination completion (MCAT or GRE). *If you are interested in a health professions program outside of medicine, we will accept admissions tests in accordance with those professions.*
- Two letters of recommendation, preferably from science faculty familiar with the applicant's academic abilities;
- All transcripts from any college or university attended. *If you have already submitted an application to KCU's COM, you do not need to submit transcripts at this time. If an offer of acceptance is extended, you will be required to submit all transcripts directly to KCU. These should be submitted electronically to KCU from each institution, if available.*

For more information about the Master of Science in Biomedical Sciences, please contact the KCU Admissions Office at 800.234.4847 or 816.654.7160.

International Applicants

An international applicant is an applicant who is not a United States citizen or permanent resident and requires a student visa (F-1) to study in the United States. International applicants who are in pending status for permanent U.S. residency are not eligible for admission.

Requirements for International Applicants

International applicants whose native language is not English must also demonstrate objective competency in English by either:

1. Completing the Test of English as a Foreign Language (TOEFL) within two years of the applicant's anticipated matriculation date with a minimum score of 79 for the IBT (Internet Based Testing) and a minimum score of 26 on the speaking component; or
2. By successfully completing a minimum of 30 semester hours of coursework from a regionally accredited college/university in the United States, or from a recognized Canadian institution that uses English as its primary language of instruction and documentation, not more than three years prior to the applicant's anticipated matriculation. Of the 30 semester hours, 15 hours must be in the sciences, 6 hours in non-remedial English and 3 hours in speech/public speaking.
3. Non-U.S. Citizens

As part of the application, applicants who are not U.S. citizens or do not have permanent U.S. resident status are required to provide the Admissions Office with a copy of their INS documentation and visa.

Note: International applicants who are in pending status for permanent U.S. residency are not eligible for admission.

Previous Attendance at Foreign Institutions

Applicants with college credit at foreign institutions, or institutions teaching in a language other than English, must submit official foreign transcripts to one of the following evaluation services as part of the admissions processes:

Educational Credential Evaluators, Inc.

P O Box 514070
Milwaukee, WI 53203-3470
(414) 289-3400

Josef Silny and Associates

International Education Consultants
7101 SW 102 Avenue
Miami, FL 33171
(305) 273-1616
www.jsilny.com

World Education Services, Inc.

P O Box 745 Old Chelsea Station
New York, NY 10113-0745
(212) 966-6311

KCU will consider credit from the evaluation report only if the evaluation service has indicated the coursework taken was similar to coursework taken at an institution which is comparable to a regionally accredited U. S. college or university.

Substitutions or Waivers of Admissions Requirements

Prerequisite course substitutions are permitted in some situations. Any request for substitutions or waiver of any of the admission requirements must be submitted in writing to the Office of Admissions stating the request, rationale for the request and supporting documentation. An applicant may request substitution of undergraduate coursework prerequisites by forwarding one or more of the following to the admissions office:

- A faculty letter detailing course content;
- A copy of the course description from the *University Catalog*;
- A copy of the course syllabus.

Documentation providing the most detail will expedite the review process. Applicants will be notified of decisions upon review of course content. If a substitution is granted, the substituted course will not be counted toward the fulfillment of any other prerequisite.

Application Process

Applicants are encouraged to begin the application process 10-12 months prior to anticipated matriculation.

Review and Notification

The major criteria for rating applicants include both academic excellence and nonacademic achievements. Academic excellence is measured by an assessment of the results of the Graduate Record Examination (GRE), the Medical College Admissions Test (MCAT), and possibly

other comparable professional degree admission tests, in addition to course grades and grade point averages. Nonacademic achievements also are considered, as well as a candidate's ability and desire to fulfill the mission of the University. Nonacademic activities considered are community/volunteer services (medical and non-medical) and leadership positions (official and non-official) and examples of the depth and duration of involvement. Activities for which the applicant has been honored should also be enumerated. This process is part of the application assessment.

Applicants are notified as soon as a final admission decision has been made. Applicants who have been offered admissions are then invited to visit the campus for an open house.

Matriculation Requirements

- **Matriculation Fee** – A non-refundable matriculation fee is required from accepted applicants. (See "Tuition, Fees & Expenses.")
- **Official Transcripts** -- Acceptance is conditional until all official transcripts are received from previous colleges/universities attended. Transcripts must be received by the Office of Admissions by July 1. Applicants accepted while completing coursework will be expected to receive a grade of C or higher, and degree requirements must be completed by July 1.
- **Immunizations and Proof of Health Insurance** - Prior to matriculation, all entering students must be vaccinated in accordance with University's guidelines. KCU determines immunization requirements based upon current Centers for Disease Control and Prevention (CDC) guidelines for healthcare workers in combination with current requirements for the Office of Clinical Education. These guidelines/requirements change and are updated periodically. Applicants and students are expected to be knowledgeable of the current CDC guidelines for healthcare workers found on the website www.cdc.gov.
- **All students are required to maintain personal health insurance.** Proof of personal health insurance must be submitted to the Office of Admissions before matriculating. Any break in coverage or change in health insurance must be reported to the assistant dean for student affairs.
- **Criminal Background Check** – Prior to matriculation, all KCU students must agree to and undergo a criminal background check at their own expense. The background check will be performed by a certifying organization retained by the University.

Note: Discovery following admission or matriculation of intentional misrepresentation or omission of any information used in the application process or omission of information relative to scholastic records or test records will subject the student to disciplinary action, including rescinded admission, probation, suspension or dismissal. Matriculation will be denied to applicants who have failed to maintain a good record of scholastic performance and/or personal conduct between the time of their acceptance and their matriculation at the University. The University reserves the

right to deny admission to any applicant for any reason the University deems sufficient.

Dispute Resolution Policy

From time to time, disputes may arise between the student and KCU. Notwithstanding issues involving Title IX, student discipline and grievances are handled utilizing Student Disciplinary Committee and Grievance Procedures located in the Student Handbook. For issues that are not resolved by a Grievance Procedure or Student Disciplinary Committee or for other disputes where the Grievance Procedure or Student Disciplinary Committees are not a reasonable option for resolution, KCU will look to binding arbitration for dispute resolution.

Arbitration is a dispute resolution process in which the disputing parties present their case to a third party intermediary who considers all of the evidence and then makes a decision for the parties. Binding arbitration simply means that the decision is binding for both parties. Arbitration is a very common approach for resolving various types of disputes and KCU requires that all students who apply for admission agree to settle any disputes that cannot be resolved via university means (Student Disciplinary Committee or Student Grievance Procedures) using binding arbitration rather than through a court system.

Binding Arbitration Agreement

By pursuing enrollment at KCU, Student agree that any dispute arising from his or her recruitment, enrollment, attendance or education at KCU or any claim, no matter how described, related in any manner, to any act or omission regarding the student's relationship with KCU, that is not resolved by a Grievance Procedure or Student Disciplinary Committee, shall be resolved by binding arbitration under the requirements of the Federal Arbitration Act. The American Arbitration Association (AAA) in Kansas City, Missouri, will conduct the binding arbitration under its commercial rules. All determinations as to the enforceability and effect of this arbitration agreement shall be decided by the arbitrator, and not by a court. Any award issued as a result of the binding arbitration may be entered in any court having jurisdiction.

- Terms of Arbitration
 - Both Student and KCU irrevocably agree that any dispute between them shall be submitted to arbitration. Neither the Student nor KCU shall file or maintain any lawsuit in any court against the other, and agree that any suit filed in violation of this Agreement shall be dismissed or stayed by the court in favor of an arbitration conducted pursuant to this Agreement.
 - The costs and fees for arbitration will be governed by the American Arbitration Association's Employment Arbitration Rules. If neither party is totally successful in the prosecution or defense of its claims, each party will bear its own costs of arbitration unless the arbitrator determines that a more reasonable and equitable division of costs should be imposed.
 - The arbitrator's decision shall be set forth in

writing and shall set forth the essential findings and conclusions upon which the decision is based.

- Any remedy available from a court under the law shall be available in the arbitration
- Procedure for Filing an Arbitration
 - Students are strongly encouraged, but not required, to utilize the Grievance Policy described in the Catalog and Student Handbook, prior to filing arbitration.
 - A student desiring to file arbitration should first contact the KCU President, who will provide the student with a copy of the AAA Commercial Rules. A student desiring to file arbitration should then contact the American Arbitration Association in Kansas City, Missouri, which will provide the appropriate forms and detailed instructions. The student should return this form to the AAA.
- Acknowledgment of Waiver of Jury Trial and Availability of AAA Rules
 - The student acknowledges that he or she understands that both KCU and the student are irrevocably waiving rights to a trial by jury and are selecting instead to submit any and all claims to the decision of an arbitrator instead of a court. The student understands that the award of the arbitrator will be binding and not merely advisory.

Transfer Admission Policy: Master of Science in Biomedical Sciences – Research Track

A student may transfer up to nine (9) semester credit hours from a regionally accredited graduate institution toward completion of the Master of Science in Biomedical Sciences degree in the research track. To qualify for consideration as transfer credit, the following minimum requirements must be met:

- The requested credit must be from another regionally accredited graduate institution in the U.S. or a foreign institution that is recognized by its country's Ministry of Education, or equivalent agency, as a graduate degree granting institution.
- The requested credit must be for graduate-level coursework taught by a graduate faculty member with scholarly competence in the subject area.
- The transfer transcript must clearly indicate that the course was taken for graduate credit and include the number of credit hours and grade.
- The coursework must have received a grade of "B" or better (3.0 on a 4.0 scale).
- The course content is appropriate for the Master of Science in Biomedical Sciences degree research track.

Housing

KCU does not provide housing; however, the KCU Office of Admissions assists students in their search for housing.

Academic Records & Policies

Student Academic Records

Office of the Registrar

The Office of the Registrar is committed to providing exemplary service to students, graduates, and faculty. The office strives to provide accurate information and efficient service to the constituencies of the University while not only facilitating and coordinating activities in accordance with University policy and federal regulations, but also serving as the custodian of student academic records. The Office of the Registrar serves as an information resource for students, graduates, faculty and staff, and actively seeks ways to effectively communicate and inform those associated with the University of their rights and responsibilities.

Academic Records Requests

Requests for academic records (including Medical Student Performance Evaluations) will be processed by the Office of the Registrar in the order they are received. Federal regulations mandate a signed request to authorize the release of student academic records. Consequently, phone requests for transcripts are not accepted. Active KCU students are encouraged to utilize PowerCampus Self-Service, our online service utility, to review and print unofficial transcripts.

The Office of the Registrar makes every effort to respond to requests in a timely manner and has traditionally been able to process transcript requests within three to five business days from the time the request was received. Depending on staff workload, the office is frequently able to process transcript requests within one day. Requests for multiple transcripts, several different documents (e.g., a request for a transcript as well as Board scores) or requests during peak operating times (e.g., graduation), may require additional processing time. Information which is required to meet a third-party deadline should be requested with at least two weeks lead time to ensure expedient delivery and appropriate recording.

Official transcripts cost \$15, due at the time of request. Requests will not be processed unless payment has been received in full and the student or alumnus has fulfilled all financial obligations to the University. All services will be withheld in situations of default on student loans or other similar financial obligations. Official transcripts are generally forwarded directly to the receiving party. If a transcript is verified as received, via certified mail, but the recipient is unable to locate the transcript, the student is responsible for requesting and paying for another transcript to be sent. Unofficial transcripts do not carry the college seal and are stamped with a red ink identifier. Unofficial transcripts are free of charge.

A graduate who has lost his or her original diploma or

requests a duplicate due to a name change must make a request through the Office of the Registrar with supporting legal documentation. The cost for a duplicate diploma is \$125. A new diploma will have the word "duplicate" printed on the lower left corner.

Confidentiality and Disclosure of Student Records

www.ed.gov/policy/gen/guid/fpco/ferpa/index.html

Family Educational Rights and Privacy Act Policy and Notice of Rights

The Family Educational Rights and Privacy Act (FERPA) requires educational institutions to annually notify students, in attendance, of their rights under the Act regarding access to their education records and certain protections regarding the privacy of personally identifiable information in those records. This policy is issued in compliance with that requirement.

The following definitions apply to this policy:

- Directory information: means information contained in an education record of a student that would not generally be considered harmful or an invasion of privacy if disclosed.
- Disclosure: means to permit access to or the release, transfer or other communication of personally identifiable information contained in education records by any means to any party except the party identified as the party that provided or created the record.
- Education records: means those records, regardless of how the information is recorded, that directly relate to a student and are maintained by this University or by a party acting for this University. However, it does not include:
 - Records kept in the sole possession of the maker, that are used only as a personal memory aid, and are not accessible or revealed to any other person except a temporary substitute for the maker of the record;
 - Records of the University's law enforcement unit that are created by it for law enforcement purposes and maintained by it;
 - Records relating to an individual who is employed by the University (except if the individual is a student employed as a result of his or her status as a student) that are made and maintained in the normal course of business, relate exclusively to the individual in that individual's capacity as an employee and are not available for any other purpose;
 - Records on a student 18 years of age or older made or maintained by a physician, psychiatrist, psychologist or other recognized professional or paraprofessional acting in his or her professional capacity or assisting in a paraprofessional capacity so long as the records are made, maintained or used only in connection with

treatment of the student and are disclosed only to individuals providing treatment;

- Records created or received by this University after the student is no longer in attendance and are not directly related to the individual's attendance as a student.
- Personally Identifiable Information: includes, but is not limited to: the student's name; name of parents or other family members; address; a personal identifier; other indirect identifiers (e.g., date and place of birth or mother's maiden name); other information that, alone, or in combination, is linked or linkable to a specific student and would allow a reasonable person who does not have personal knowledge of the relevant circumstances to identify the student with reasonable certainty; or information requested by a person who the University reasonably believes knows the identity of the student to whom the education record relates.

The Right to Review and Inspect

Students have the right to inspect and review their education records within 45 days of the date the University receives a request for access. Students should submit to the Registrar a written request that identifies the record(s) they wish to inspect. The Registrar will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the Registrar, that official shall advise the student of the correct official to whom the request should be addressed.

Please note the following:

- This right does not extend to the financial records, including any information those records contain, of the student's parents. Also, certain restrictions apply to a student's access to confidential letters and confidential statements of recommendation placed in a student's education records. Additionally, certain records may not be accessed by the student because they are excluded from FERPA's definition of "education records."
- If circumstances effectively prevent the student from exercising this right to inspect and review his or her education records, the University will either provide the student a copy of the requested records or make other arrangements for the student to inspect and review them.
- The University will not charge a fee to search for or to retrieve a student's education records, but may charge a fee for a copy of those records, unless doing so would in some way effectively prevent the student from exercising this right.

The Right to Seek an Amendment of the Student's Education Records

A student has the right to seek an amendment to that student's education records if the student believes the record to be inaccurate, misleading, or in violation of the student's privacy rights.

Students desiring an amendment to one of their education records should write the University official responsible for maintaining the record, clearly identify the part of the record they want changed, and specify why it is inaccurate, misleading, or in violation of the student's privacy rights. The University will follow its internal processes to review any request for amendment. The University will respond to any such request within a reasonable time after receiving the request. The student requesting the amendment will receive a written response indicating the University's decision in the matter.

The student's right to seek amendment may not be used to challenge grades.

The Right to a Hearing Regarding the Request for an Amendment

If the University decides not to amend the record as requested by the student, it will notify the student of that decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of this right.

If, as a result of the hearing, the University decides that an amendment is warranted, it will amend the record accordingly and will inform the student of the amendment in writing.

If, as a result of the hearing, the University decides that an amendment is not warranted, it will inform the student of the right to place a statement in the record commenting on the contested information or stating why he or she disagrees with the decision of the University not to make the amendment, or both. Any such statement placed in the student's education record will be maintained with the contested part of the record for as long as the record is maintained, and it will be disclosed whenever the University discloses the portion of that record to which the statement relates.

The Right to Prevent Disclosure of that Student's Personally Identifiable Information

Students have the right to prevent the disclosure of personally identifiable information from their education records, except to the extent that FERPA and its implementing regulations authorize disclosures without consent.

Unless authorized by one of the FERPA exceptions, the University must obtain the written consent of a student before disclosing personally identifiable information contained in the student's education records. Where required, a student's consent must specify the records to be disclosed, state the purpose of the disclosure, and identify the party or class of parties to whom disclosure may be made. Upon request, a student will be provided with a copy of the records that he or she has consented to being disclosed.

The various circumstances under which FERPA permits the disclosure of a student's personally identifiable information without his or her consent include, but are not limited to, the

following:

- Nonconsensual disclosures are permitted to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic, research, or support staff position (including law enforcement unit personnel and health staff). It also includes a person serving on the University's governing board; a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks; or a contractor, consultant, volunteer or other party (such as an attorney, auditor, or collection agent) to whom the University has outsourced University services or functions that it would otherwise use employees to perform, provided that this outside party is under the direct control of the University with respect to the use and maintenance of education records and is subject to FERPA restrictions governing the use and re-disclosure of personally identifiable information from education records.

Nonconsensual disclosures are also permitted to parents in three situations:

- Disclosure of a student's personally identifiable information to parents is permitted without a student's written consent if the University determines that there is an articulable and significant threat to the health or safety of the student or other individuals.
- Such disclosure is permitted to parents of the student if the parent provides documentation that the student is a dependent pursuant to Section 152 of the Internal Revenue Code of 1986 and notice is given to the student that a parent has requested such information.
- Such disclosure is permitted if the student is under 21 at the time of the disclosure and the University has determined that the student has committed a disciplinary violation of any Federal, state, or local law or of any rule or policy of the University governing the use or possession of alcohol or a controlled substance.

The Right to Opt out of the Disclosure of Directory Information

Pursuant to FERPA, the University has classified certain personally identifiable information as directory information, which may be released without the student's consent.

This University defines directory information as: the student's name; local and home addresses; telephone number; e-mail address; place and date of birth; program of study; dates of attendance; enrollment status; participation in officially recognized activities; degrees, honors and awards received; and the location, training institution and medical specialty identified for postdoctoral education. A student ID number, user ID, or other unique personal identifier used by a student for purposes of accessing or communicating in electronic systems may also be deemed directory information, but only if that identifier cannot be used to gain access to education records except when used in conjunction with one or more factors that authenticate the

user's identity (e.g., PIN or password). Any such means of authentication must only be known or possessed by the authorized user.

FERPA permits the University to limit the disclosure of directory information to specific parties, for specific purposes, or both. In the exercise of that authority, this University may release all directory information to school officials as defined in VI.B.1 above. Other releases will be limited to those situations in which the University, in its discretion, believes the release would recognize a student for academic or extracurricular achievement or otherwise advance the student's career interests or when the University believes the release would serve to advance the interests and image of the University. Examples of such releases would be the disclosure of directory information to prospective employers, financial aid and scholarship agencies or registry, licensure or certification services. Another example would be the release of directory information in connection with University-sanctioned alumni affairs. The University will not release directory information to persons or parties not affiliated with the University when their intent is to use that information for commercial purposes.

Students who wish to opt out of the release of some or all of their directory information must notify the Registrar in writing during the first ten academic days of each academic term. Upon receipt of such request, the Registrar will designate that portion of the student's directory information as confidential and not to be released outside this University except to individuals, institutions, agencies and organizations otherwise authorized by FERPA.

This University will honor all requests to withhold any of the categories of directory information listed in the written request, but will not assume any responsibility to contact the student for subsequent permission to release that information. Nondisclosure will be enforced until the student subsequently authorizes its release. A student may not, however, opt-out of the disclosure of the student's name, identifier or University e-mail address in a class in which the student is enrolled.

Regardless of the effect on the student, this University assumes no liability for honoring the request of the student to restrict the disclosure of directory information.

The Right to File a Complaint with the U.S. Department of Education

Students have the right to file a complaint concerning alleged failures by this University to comply with the requirements of FERPA. Students are encouraged to first allow the University to resolve the matter. Nevertheless, complaints may be sent to the Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, DC 20202-5920.

Student Unofficial Withdrawal from the University

In some cases, students may begin KCU coursework but

stop attending all courses during the term. KCU's Financial Aid Office and the Office of the Registrar will review students at the end of each academic term to determine if the student unofficially withdrew from the KCU. A student receiving two (2) or more grades of fail (F), withdrawal (W), or administrative withdrawal (AW) in any combination may be subject to the Return of Title IV funds calculation (R2T4) if it is determined that the student unofficially withdrew.

Student Financial Aid and Enrollment Services will contact and request from course instructors confirmation of when the student ceased attending his/her courses through graded class assignments, documented group project work, or other documentation from the instructor. If and/or when instructors provide confirmation of the last date of attendance or coursework completed, the date provided will be used to calculate the R2T4 and federal funds to return.

If a last date of attendance cannot be confirmed, 50% of the aid used to pay direct educational costs (tuition and fees) must be returned to the U.S. Department of Education on the student's behalf. The Financial Aid Office will use the policy for Return of Title IV Aid in order to return the funds.

Student Withdrawal from the University

Withdrawal is a voluntary action by the student to leave the university. It is imperative that any student who leaves the University (becomes a non-student), for any reason, complete the University's checkout process and procedures. Failure to complete this checkout procedure will cause the University to withhold all records pertaining to the student's attendance.

The checkout procedure is as follows:

1. If the student is withdrawing, he/she must present the dean of COM or dean of COB with a letter of withdrawal;
2. If the student is being dismissed, the dean of COM or dean of COB will inform the registrar of the dismissal as soon as possible and communicate with the student who is being dismissed that checkout is in order;
3. Before leaving campus, the student must secure a checkout form from the Office of Student Affairs and undergo an exit interview with:
 - a. Financial Aid Office;
 - b. Finance Office;
 - c. Library;
 - d. Office of Information Technology;
 - e. Department of Anatomy;
 - f. Office of Clinical Education (COM students); and
 - g. Safety and Emergency Management.
4. The exit interview will occur with members of the Office of Student Affairs. For the convenience of the student, this will be handled in a single office and representatives from each of the offices/departments listed above will be

brought to the student in order to expedite the process. The completed checkout form will be submitted to the Office of the Registrar by University staff.

5. Once the student completes all obligations, the Office of the Registrar will release student records upon signed consent.

Dismissal from the University

The University reserves the right, at its sole discretion, to dismiss any student at any time prior to graduation, in the event of a breach of the Professional Code of Conduct, any policy or directive set forth in the University Catalog or KCU Student Handbook, or failure to satisfy any requirement for graduation; provided, however, that all procedures for review or action be adhered to.

Exceptions to Academic Policy

The University Catalog and the KCU Student Handbook are the basic authority sources for academic requirements and associated policies. All students are expected to follow the catalog and student handbook in the pursuit of their degrees. On occasion, however, extraordinary circumstances may warrant departures from the catalog requirements. Students who believe their situation warrants a deviation from academic policy may petition for an exception to policy by filing an appeal with the vice provost for enrollment and student services.

General Academic Information (COM)

Responsibility of the Student

Students are required to become familiar with the academic policies, curriculum requirements and associated deadlines as posted to this catalog and the KCU Student Handbook. The Office of Student Affairs will aid students in understanding the academic program requirements, if necessary. It is ultimately the student's responsibility to know and comply with all University policies and procedures and to meet all stated requirements for the degree. It is also the student's responsibility to monitor daily their campus email, Blackboard account, the University website, and KCU's Intranet.

Academic Advising

Academic advising may come from multiple sources: the office of the dean, the office of the vice provost for enrollment and student services, the assistant dean for year 1, the assistant dean for year 2, the associate dean for clinical affairs, faculty advisors, education specialists, and the students at risk committee.

Academic Load

Fall and Spring semesters:

Full-time = 12 or more semester credits

Half-time = 6 to 11.5 semester credits

Part-time = 0.5 to 5.5 semester credits

Good Academic Standing

Students are considered to be in good academic standing when they meet the minimum criteria for continued enrollment. Refer to the [Eligibility for Continued Enrollment](#) section of this catalog for additional details.

Registration

Unlike traditional undergraduate and graduate institutions where students individually register for courses, KCU engages in block registration for each student cohort. Consequently, first- and second-year students are required to report on the orientation/registration date as specified in the Academic Calendar.

First-year students who fail to appear within the first hour of orientation risk losing their seat. Students failing to appear at the beginning of registration may be required to pay the late registration fee.

Third- and fourth-year students must complete registration materials, including financial aid arrangements, by the specified date, prior to participating in clerkships.

All outstanding financial obligations to the University or University-affiliated clerkship sites must be cleared in order for a student to register. Students who are not in University compliance may not attend classes or participate in clerkships.

Grades and Grading Policies (COM)

Grades and Quality Points

The academic grades and quality point system in force at KCU is as follows:

Grade	Definition	Quality Points
A	Excellent work (94-100%)	4.00
A-	90-93%	3.67
B+	87-89%	3.33
B	Average (84-86%)	3.00
B-	80-83%	2.67
C+	77-79%	2.33
C	Minimum Average (70-76%)	2.00
F/C	Successful Remediation	2.00
F	Fail	0.00
H	Honors	
HP	High Pass	
P	Pass	
IP	In-Progress	
I	Incomplete	
W	Withdraw	

The grade point average is the sum of earned grade points divided by the sum of term-hour credits passed and failed.

The record of each student will be reviewed each year to evaluate the student's potential for continuance. At the end of the academic year, the Student Performance Committee (SPC) may recommend promotion to the following year, make-up examinations, summer remediation, or dismissal.

KCU graduates students who meet and surpass the minimum expectations of the Commission on Osteopathic College Accreditation (COCA). At a minimum, a graduate must be able to:

1. Demonstrate basic knowledge of osteopathic philosophy and practice and osteopathic manipulative treatment;
2. Demonstrate medical knowledge through one or more of the following: passing course tests, standardized tests of NBOME, end-of-clerkship tests; research activities, presentations, and participation in directed reading programs and/or journal clubs; and/or other evidence-based medical activities;
3. Demonstrate interpersonal and communication skills with patients and other healthcare professionals;
4. Demonstrate knowledge of profession, ethical, legal, practice management and public health issues applicable to medical practice;
5. Demonstrate basic support skills as assessed by nationally standardized evaluations.

To demonstrate these expectations have been met in an objective manner, each student must demonstrate minimum knowledge in each discipline prior to graduation. This includes the basic science disciplines (anatomy, biochemistry, behavioral science, bioethics, embryology, genetics, histology, immunology, microbiology, neuroscience, pathology, pharmacology and physiology) and clinical sciences (osteopathic clinical skills, family medicine, internal medicine, obstetrics and gynecology, pediatrics, psychiatry, surgery, and emergency medicine).

Incomplete Grades

A course director may assign a grade of "I" if he/she believes that a student has been unable to complete the course/section on time because of extenuating circumstances beyond the student's control. In the case an incomplete grade is assigned, the course director and/or the assessment office should complete an Incomplete Grade Contract that details the requirements for completion of the course/section.

The student's signature is not required for the incomplete grade contract to be valid. In the event an "I" grade is being assigned, the dean of COM must be notified before the contract is presented to the student. Upon receipt, the Office of the Registrar will provide a copy of the contract to the student's KCU email address. The student will have three business days to decline the incomplete grade and receive the current earned grade with all missing assignments calculated as a zero.

Any student receiving a grade of incomplete "I" must coordinate with the course director/assistant dean to satisfy all outstanding coursework for the course/section. Once outstanding requirements for the course are satisfied,

the course director will process a change of grade form converting the “I” to a letter grade. The deadline for the grade change is the last day of class of the next full-length term (i.e., fall or spring). Once this deadline has passed, the “I” becomes an “F.”

A degree cannot be awarded to a student with an incomplete grade on his/her record.

Note: In-progress or “IP” grades are reserved only for those instances when students are unable to complete a course by the established deadline due to an instructor or administrative challenge (e.g., instructor is hospitalized and several class meetings must be rescheduled, University closes during finals week due to inclement weather, etc.).

Grade Changes/Corrections

No grade will be changed unless the course director certifies in writing that an error occurred in computing or recording the grade, or a section or course has been successfully remediated. Such changes must be approved by the dean of COM. If the change of grade impacts individual students rather than the entire class, or it is because an instructor neglected to turn their grades in by the established deadline, the change of grade must be documented on a grade change form and submitted to the Office of the Registrar for processing.

Section/Course Grade Appeal Process

Within 10 calendar days of completion of a course, a student may request that their course grade be reviewed. Students should make this request to the appropriate assistant or associate dean, in consultation with the course director, to review their points and final grade. If the student feels an error remains, a final request to review the section grade may be made directly to the dean of the college.

Semester Credit Definition

KCU awards semester credit based on an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates to no less than 750 minutes (12.5 clock hours) of formalized instruction that typically requires students to work at out-of-class assignments an average of twice the amount of time as the amount of formalized instruction (1,500 minutes) for a total of 2,250 minutes or 37.5 clock hours for each semester credit awarded. Additionally, KCU recognizes that formalized instruction may take place in a variety of delivery methods and variable lengths of time within the semester calendar definition. As such, KCU utilizes the following semester credit calculations based on delivery method and the expectation that the minimum amount of formalized instruction, independent learning, and intended outcomes are being accomplished:

Lecture

12.5 clock hours of formalized instruction (plus 25 clock hours of student out-of-class independent learning) = 1 semester credit. Small group discussions and learning activities are considered the same as lectures for credit hour calculation purposes.

Labs

25 clock hours of formalized instruction (plus 12.5 clock hours of student out-of-class independent learning) = 1 semester credit.

Clerkships, Directed Study, Independent Study, Practicum and Research

37.5 clock hours of formalized instruction and/or student out-of-classroom independent learning in any combination = 1 semester credit.

Guidelines

Student learning outcome equivalents are to be based on documented qualitative and quantitative expectations for:

- Time required of students to complete assigned learning activities;
- Time required of students to read and understand content developed by course/section faculty, excluding time required to read assignments in a course syllabus;
- Time required of course/section faculty to respond to student questions received through electronic mediums (e.g., email, online classroom, discussion boards, chat rooms); and,
- Time required of course/section faculty and students to participate in online conference activities.

Academic Assessment, Status and Promotion

Eligibility for Continued Enrollment

At the end of the academic year and as needed, KCU’s Student Performance Committee (SPC) evaluates student performance. Students are considered for promotion one academic year at a time. At any time, the University, by recommendation of the SPC and/or the action of the administrative officers, reserves the right to place on conditional or stipulated status, suspend or dismiss a student who has failed to:

- Maintain acceptable standards of academic performance based on the totality of their academic record.
- Maintain acceptable ethical, moral, personal or professional conduct.
- Abide by the University’s policies, rules and regulations.
- Fulfill legal or financial obligations to the University.
- Show professional promise including mental and emotional fitness commensurate with the expected degree.

COM Assessment Policy

For the COM assessment policy, testing and grading, and promotion to years II, III, and IV, please refer to the KCU Student Handbook and the Clinical Clerkship Manual.

Clerkship Assessment

To pass each clerkship students must demonstrate progress on evaluation by their preceptor and pass the applicable Subject (End of Clerkship) Exam. All components listed below are required before a final grade is assigned by KCU:

- Subject (End of Clerkship) Exam (when applicable)

- End of Clerkship Reflection
- Preceptor Evaluation of Student Performance

The complete Clerkship Assessment policy is located in the Clinical Clerkship Manual.

NBOME Academic Requirements

Successful completion of the National Board of Osteopathic Medical Examiners (NBOME) examinations is required for osteopathic medical students to graduate and become licensed. The NBOME examinations are composed of four sequential segments – COMLEX Level 1, COMLEX Level 2-CE, COMLEX Level 2-PE and COMLEX Level 3. All KCU students must pass COMLEX Level 1 in order to progress to the third year of studies. COMLEX Level 2-CE and COMLEX Level 2-PE are required to qualify for graduation from the University.

The NBOME examination sequence follows exacting timelines and has restrictions on numbers of retakes in cases of initial failures. The medical school policy for a failed COMLEX examination is that a student is required to appear before the Student Performance Committee (SPC). The SPC may recommend remediation of a failed COMLEX exam. This is true for each individual failure. Should a student be allowed to take the failed COMLEX exam more than two times, a failure of the third attempt will result in dismissal from the medical school. Refer to the KCU Student Handbook for additional details.

Leaves of Absence

A leave of absence (LOA) may be granted from the University for several reasons, including:

- A medical emergency or illness;
- A financial emergency;
- Personal emergency;
- Military service;
- Pursuit of an academic endeavor other than the regular classroom work, either on-campus or at another recognized educational institution.

The maximum length granted for an LOA is 12 months. Should a student wish to take a leave longer than one year, they must appeal to the Vice Provost for Enrollment and Student Services. These requests for extensions beyond 12 months are only granted in situations where there is a compelling, legitimate reason why the student should need additional time away. Should a student be on leave for more than 12 months, KCU reserves the right to require them to retake coursework to ensure that his/her basic science/clinical knowledge and skills are at an acceptably safe level.

The dean of COM, Vice Provost for Enrollment and Student Services, or dean of COB may grant an LOA for a designated period of time with or without conditions. Conditions are commonly prescribed in cases of academic deficiency or medical-related issues.

Students granted a medical LOA must have a licensed physician, approved by the dean of COM or dean of COB, certify in writing that their physical and/or mental health

is sufficient to continue in a rigorous educational program before they may return to the University.

A student granted an LOA with conditions may be required to meet with a student services staff member before reinstatement.

Students granted a financial LOA must, prior to returning to the University, prove to the finance department of the University that they have the financial capability to advance in their education.

Students seeking an academic LOA must verify that all terms and conditions of the leave are stated before the leave will be granted, thereby ensuring that the student does not miss important core information.

All LOA's should be requested in writing - the LOA Request form is available online - to the Vice Provost for Enrollment and Student Services, or the dean of COM/COB, who are responsible for approving or denying requests for LOA's. Exception to written, signed, and dated requests (the LOA Request form): If unforeseen circumstances prevent a student from providing a prior written request, the request may be granted for the LOA.

Students granted an LOA must follow the checkout process detailed in this handbook. MSI, MSII, and COB students on an LOA of more than 30 days will be withdrawn from their program and must repeat the semester/year with the next cohort of students. Students place on any LOA over 30 days will be considered withdrawn from coursework and will be reported to the U.S. Department of Education through the National Student Loan Data System (NSLDS) as withdrawn. LOA's have a significant impact on a student's federal financial aid status. Please contact the Financial Aid Office about the implications related to your LOA.

Following an LOA, a student must request reinstatement in writing to the Vice Provost of Student and Enrollment Services, the dean of COM, or the dean of COB.

Individual Course/Clerkship Failure and Remediation Policy (COM)

There is no automatic/guaranteed remediation for students who fail a section/course. Failure of any course(s) at KCU may be grounds for dismissal from the program. Students who fail a section, course, or clerkship will be required to appear before the SPC to discuss the failure. The SPC will make an appropriate recommendation, including whether remediation is recommended, to the administration. The administration will consider the SPC recommendation and make a final decision. The student will then be notified as to whether or not they have been granted the opportunity for remediation. Dates for remediation will be determined by the course director and the administration. Students are guaranteed the right to appeal any decision by the SPC deciding authority to the dean of COM. All decisions made by the dean remain final.

It is the responsibility of the student to be aware of his/her academic status at all times and to be in attendance at all scheduled remediations, when applicable. Failure to attend a scheduled remediation exam will result in a failing

grade for that remediation and potential dismissal from the University.

In the case of a remediated course in the COM program, the student's most recent grade earned is used in the calculation of the GPA. If a course is successfully remediated, the student will receive a grade of F/C. If a clerkship is successfully remediated, the student will receive a grade of F/P. If a student fails the remediation of a course or clerkship, the student will receive a final grade of F.

Program Remediation Policy (COM)

Should a student fail to academically progress while enrolled in the medical school, and based on the totality of the student's academic performance while enrolled, the SPC may recommend that a student repeat an academic year in order to establish a firm foundation to assist the student in his/her studies of the previously attempted subjects. Students approved for readmission after a period of suspension or an approved leave of absence may also be required to repeat previously attempted courses. A COM student may remediate by repeating an academic year in full upon recommendation of the SPC and approval of the dean. The student must retake and pass all courses regardless of previous performance. Students who fail any course are subject to review by the SPC.

All course enrollments and earned grades will remain on the student's academic transcript. For repeated coursework in the COM program, the student's most recent grade earned is used in the calculation of the GPA. Grades for repeated courses are recorded in brackets on the academic transcript.

Students who repeat an academic year must still complete their degree within six years of matriculation.

Grade Assessments for Reinstated Students

Reinstated students are held accountable to all previously earned grades and they remain part of the permanent student record. If, upon returning, a student is required to retake a previously failed section, the retake will replace the entire remediation process for that section and will supersede the remediation process described for academic failures of continuously matriculated students. If the returning student fails the section a second time, the consequences will be identical to those described for failing the remediation process for a continuously matriculated student.

Graduation and Commencement Requirements

Degree Requirements (COM)

A student who has fulfilled all the academic requirements may be granted the doctor of osteopathic medicine degree provided the student:

- Has been in residence at an AOA-accredited college of osteopathic medicine, the last two years of which must have been at KCU;
- Has complied with all the curricular, legal and financial requirements of KCU;

- Attends, in person, the ceremony at which time the degree is conferred (unless excused by the dean of COM);
- Has passed Levels 1, 2-CE and 2-PE of the COMLEX examination administered by the National Board of Osteopathic Medical Examiners;
- Has demonstrated the ethical, personal and professional qualities deemed necessary for the successful and continued study and practice of osteopathic medicine;
- Has demonstrated suitability for the practice of osteopathic medicine as evidenced by the assumption of responsibility for patient care and integrity in the clinical activities;
- Has received formal approval for graduation from the Faculty Senate and the Board of Trustees.

COM students must graduate within six years of the date of matriculation. Exceptions to the six-year policy will be considered by the dean of COM on an individual basis, taking into account only extenuating circumstances. Entrance and completion of medical school does not guarantee further career opportunities up to and including matching and/or placement in a residency training program.

Commencement Ceremony

Participation in the commencement ceremony is mandatory for all students who have fulfilled their degree requirements.

Class Rank & Latin Honors

Class rank at graduation is based on the cumulative grade point average for all first and second-year courses.

The criteria for graduating from COM with Latin honors are as follows:

- Top 2 percent of class: Summa Cum Laude
- Next 5 percent of class (3 -7%): Magna Cum Laude
- Next 5 percent of class (8-12%): Cum Laude

Dean's List

The Dean's List is comprised of the top 10% of each first- and second-year class each semester and the top 10% of the third-year class for the totality of the third year. The calculations are based on the average of percentages earned in each course, and is weighted by credit hour. The Dean's list distinction is recognized on the official transcripts.

- MSI - Fall and Spring
- MSII - Fall and Spring
- MSIII - End of third year

General Academic Information (COB)

Responsibility of the Student

Students are required to become familiar with the

academic policies, curriculum requirements and associated deadlines as posted to this catalog and the KCU Student Handbook. The academic advisor will aid the student in understanding their academic program requirements as well as interpretation of policies whenever necessary. However, it is ultimately the student's responsibility to know and comply with all University policies and procedures and to meet all stated requirements for the degree. It is also the student's responsibility to monitor daily their campus email, Blackboard account, the University website, and KCU's Intranet.

Academic Advising

Academic advisors are charged with the responsibility of assisting students in the successful completion of the student's program of study. The COB faculty serve as the primary academic advisors for all students in the one-year biomedical sciences program. Students participating in the research track are each assigned an advisor by the dean.

Academic Load

Fall and Spring Semesters:

Full-time = 12 or more semester credits for one-year track

Half-time = 6 to 11.5 semester credits

Part-time = 0.5 to 5.5 semester credits

Good Academic Standing

Students are considered to be in good academic standing when they meet the minimum criteria for continued enrollment. Refer to the [Eligibility for Continued Enrollment](#) section of this catalog for additional details.

Registration

KCU engages in block registration by student cohort. Consequently, students are required to report to campus on the registration date as specified in the academic calendar. All students failing to appear at the start of registration may be required to pay the late registration fee. Students who fail to appear risk losing their seat. Students who are not in University compliance may not attend classes.

Examinations

Examinations are regularly scheduled and required. Students are evaluated on the basis of their performance of assignments as well as achievements on written and oral examinations. Please refer to the KCU Student Handbook for additional details.

Attendance/Absences

Attendance at all KCU classes is required. As professionals, students are expected to adhere to this attendance policy with diligence. Missed laboratory sessions may be made up if they occur related to an excused absence. Requests for excused absences must be filed at least 10 days prior to the anticipated absence. Excused absences may be granted prior to the date requested at the discretion of the dean of COB, at least 10 days prior to an anticipated

absence. Unanticipated absences will only be considered for extenuating circumstances beyond the student's control.

Excused Absences, Make-Up Examinations, Quizzes, and Events

It is the student's responsibility to obtain an approved "signed" absence form with supporting documentation from the dean of COB and schedule make-up examinations or quizzes with the COB course director/instructor within two days of returning to campus.

The following policy outlines the criteria for excused absences, make-up examinations and quizzes:

- **Civic Responsibilities:** Students who are required to be physically present at citizenship hearings, court hearings or jury duty on the date of an examination, quiz, and/or required presentation will be granted an excused absence and allowed to take a make-up examination or practical. Students should contact the dean of COB with supporting documentation to discuss such circumstances prior to the occurrence.
- **Academic Conflict:** COB students may request an excused absence for academic-related conferences or activities. Only students in good academic standing (GPA of 3.0 or above) will be considered.
- **Death in the Family:** Any student applying for an excused absence or to take a make-up exam or quiz due to a death in their family must provide a copy of the death certificate or obituary program. Consideration will be given for deaths of spouse, life partner, parents, siblings, children, in-laws or grandparents.
- **Religious Holiday:** Students may request an excused absence for a holiday of their faith. Such holidays should be considered a significant observance recognized by a majority of the faith.
- **Illness:** Any student who misses a lab, exam, quiz, presentation, or event due to illness must be seen by their private health-care provider on the day of the illness in order to have such illness documented.
- **Other:** Additional extenuating circumstances, not covered by these guidelines, may be brought to the dean of COB for consideration. However, excused absences should not be requested for weddings, vacations, birthdays, non-family special events, etc.

Excessive make-up requests: Any student requesting excessive numbers of excused absences, make-up examinations, quizzes, labs or presentations will be referred to the appropriate KCU administrators.

As professionals, students are expected to adhere to the KCU attendance and absenteeism policy with diligence.

Leaves of Absence

A leave of absence (LOA) may be granted from the University for several reasons, including:

- A medical emergency or illness;
- A financial emergency;
- Personal emergency;

- Military service;
- Pursuit of an academic endeavor other than the regular classroom work, either on-campus or at another recognized educational institution.

The maximum length granted for an LOA is 12 months. Should a student wish to take a leave longer than one year, they must appeal to the Vice Provost for Enrollment and Student Services. These requests for extensions beyond 12 months are only granted in situations where there is a compelling, legitimate reason why the student should need additional time away. Should a student be on leave for more than 12 months, KCU reserves the right to require them to retake coursework to ensure that his/her basic science/clinical knowledge and skills are at an acceptably safe level.

The dean of COM, Vice Provost for Enrollment and Student Services, or dean of COB may grant an LOA for a designated period of time with or without conditions. Conditions are commonly prescribed in cases of academic deficiency or medical-related issues.

Students granted a medical LOA must have a licensed physician, approved by the dean of COM or dean of COB, certify in writing that their physical and/or mental health is sufficient to continue in a rigorous educational program before they may return to the University.

A student granted an LOA with conditions may be required to meet with a student services staff member before reinstatement.

Students granted a financial LOA must, prior to returning to the University, prove to the finance department of the University that they have the financial capability to advance in their education.

Students seeking an academic LOA must verify that all terms and conditions of the leave are stated before the leave will be granted, thereby ensuring that the student does not miss important core information.

All LOA's should be requested in writing - the LOA Request form is available online - to the Vice Provost for Enrollment and Student Services, or the dean of COM/COB, who are responsible for approving or denying requests for LOA's. Exception to written, signed, and dated requests (the LOA Request form): If unforeseen circumstances prevent a student from providing a prior written request, the request may be granted for the LOA.

Students granted an LOA must follow the checkout process detailed in this handbook. MSI, MSII, and COB students on an LOA of more than 30 days will be withdrawn from their program and must repeat the semester/year with the next cohort of students. Students place on any LOA over 30 days will be considered withdrawn from coursework and will be reported to the U.S. Department of Education through the National Student Loan Data System (NSLDS) as withdrawn. LOA's have a significant impact on a student's federal financial aid status. Please contact the Financial Aid Office about the implications related to your LOA.

Following an LOA, a student must request reinstatement in writing to the Vice Provost of Student and Enrollment

Services, the dean of COM, or the dean of COB.

Disciplinary Situations

In cases where the administrative officers deem it necessary, a disciplinary situation may be referred to the Student at Risk Committee (StARC), as detailed in the Student Conduct Policies. For additional information on student conduct policies, disciplinary actions and appeal processes, please refer to the KCU Student Handbook.

Course Drops and Withdrawals

Students who wish to drop/withdraw from a single or multiple courses, but not withdraw completely from the University, must adhere to the following procedures.

Students may drop (cancel registration) an elective course at any time through the first class meeting if the course has multiple class meetings, or before the class begins if the class only meets on one day. Students who wish to drop a course must officially communicate their request to the Office of the Registrar within the prescribed time requirements. A student who drops a course within the prescribed time requirements will have no record of the course on their transcript.

Students may withdraw from certain courses with the permission of the program Dean after the drop deadline and up to the last class meeting or final exam, whichever occurs first. Course withdrawals are recorded as a "W" notation on the student's academic transcript, but have no negative consequence on the student's academic record. Students may not withdraw from a course after the last course lecture or final exam has started, or after the course has concluded.

Course withdrawal may have financial aid implications. Students are advised to talk with the Financial Aid Office prior to dropping a course.

Exceptions to this policy may be granted based on extenuating circumstances only. Appeals to the withdrawal deadline are only granted following submission of a written petition, with the concurrence of the course director and the approval of the dean of COB.

Grades and Grading Policies (COB)

Grades and Quality Points – MS in Biomedical Sciences

Grade	% Range	Quality Points
A	90-100%	4.00
B+	86-89%	3.7
B	83-85%	3.3
B-	80-82%	3.0
C+	76-79%	2.7
C	73-75%	2.3
C-	70-72%	2.0
F	<69%	0.00/Fail
H	-	Honors

Grade	% Range	Quality Points
HP	-	High Pass
P	-	Pass
I	-	Incomplete
W	-	Withdrawal

Incomplete Grades

A course director may assign a grade of “I” if he/she believes that a student has been unable to complete the course/section on time because of extenuating circumstances beyond the student’s control. An Incomplete Grade Contract should be completed that clearly details the requirements for completion of the course/section. The grade contract form is available on the Registrar page of the Intranet.

The student’s signature is not required for the incomplete grade contract to be valid. In the event an “I” grade is being assigned, the dean of COB must be notified before the contract is presented to the student. Upon receipt, the Office of the Registrar will provide a copy of the contract to the student’s KCU email address. The student will have three business days to decline the incomplete grade and receive the current earned grade with all missing assignments calculated as a zero.

Any student receiving a grade of “I” must coordinate with the course director to satisfy all outstanding coursework for the course/section. Once outstanding requirements for the course are satisfied, the course director will process a change of grade form converting the “I” to a letter grade. The deadline for the grade change is the last day of class of the next full-length term (i.e., fall or spring). Once this deadline has passed, the “I” becomes an “F.”

A degree cannot be awarded to a student with an incomplete grade on his/her record.

Grade Changes/Corrections

No grade will be changed unless the course director certifies in writing, that an error occurred in computing or recording the grade. Such changes must be approved by the dean of COB and must be documented on a grade change form that is submitted to the Office of the Registrar for processing.

Grade Appeals

Grade appeals should only be made when a student contends that the final course grade assigned by the course director is arbitrary or capricious. It is not to be used to challenge grades on individual assignments. “Arbitrary or capricious” implies that:

- The student has been assigned a grade on the basis of something other than his or her performance in the course; or
- Standards utilized in the determination of the student’s grade are more exacting or demanding than those applied to other students in the course; or
- The grade is based upon standards that are significant, unannounced, and unreasonable departures from those articulated in the course

description distributed at the beginning of the course.

The assessment of the quality of the student’s academic performance is one of the major responsibilities of University faculty members and is solely and properly their responsibility. A grade appeal is not appropriate when a student simply disagrees with the faculty member’s judgment about the quality of the student’s work. A student who is uncertain about whether or not a grade should be appealed or who needs additional information about the grade appeals process can contact the dean of COB.

Some examples of the basis for legitimate disagreement could include, but are not limited to, the following:

- Students are not informed of the basis for grade calculation in the syllabus, on Blackboard, or prior to the assignment.
- The student’s grade was not calculated in accordance with the stated policy in the syllabus, on Blackboard, or as provided prior to the assignment.
- Significant and unwarranted deviation from grading procedures and course syllabi set at the beginning of the course or a grade assigned arbitrarily and capriciously on the basis of whim or impulse.
- There is an error in the computation of the grade that was not corrected.
- The student, through no fault of his/her own, was not provided with the same opportunity to complete the requirements for the course in terms, for example, of time, access to materials, or access to the course director as the other students.

Semester Credit Definition

KCU awards semester credit based on an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates to no less than 750 minutes (12.5 clock hours) of formalized instruction that typically requires students to work at out-of-class assignments an average of twice the amount of time as the amount of formalized instruction (1,500 minutes) for a total of 2,250 minutes or 37.5 clock hours for each semester credit awarded. Additionally, KCU recognizes that formalized instruction may take place in a variety of delivery methods and variable lengths of time within the semester calendar definition. As such, KCU utilizes the following semester credit calculations based on delivery method and the expectation that the minimum amount of formalized instruction, independent learning, and intended outcomes are being accomplished:

Lecture

12.5 clock hours of formalized instruction (plus 25 clock hours of student out-of-class independent learning) = 1 semester credit. Small group discussions and learning activities are considered the same as lectures for credit hour calculation purposes.

Labs

25 clock hours of formalized instruction (plus 12.5 clock hours of out-of-class independent learning) = 1 semester credit.

Guidelines

Student learning outcome equivalents are to be based on documented qualitative and quantitative expectations for:

- Time required of students to complete assigned learning activities;
- Time required of students to read and understand content developed by course/section faculty, excluding time required to read assignments in a course syllabus;
- Time required of course/section faculty to respond to student questions received through electronic mediums (e.g., email, online classroom, discussion boards, chat rooms); and
- Time required of course/section faculty and students to participate in online conference activities.

Academic Assessment, Status and Promotion

Eligibility for Continued Enrollment

The dean of COB, in partnership with course directors, evaluates graduate level student performance at the end of each semester to determine if the student has fulfilled all academic requirements for promotion into the next semester. The Student at Risk Committee (StARC) reviews student eligibility for continuation and/or graduation at the conclusion of each academic year. StARC reviews student records to determine if the student has fulfilled all academic requirements, has maintained the standards of ethical, moral, personal, and professional conduct, and is considered mentally and emotionally fit. At a Faculty Senate meeting preceding commencement, the StARC certifies to the faculty the names of those students eligible to graduate, by degree level and program.

The University, by recommendation of StARC and/or the action of the administrative officers, reserves the right to place on conditional or stipulated status, suspend or dismiss a student who has failed to:

1. Pass all courses. A failure in any COB course results in automatic dismissal and does not require action by the StARC or administrative officers, other than the dean of COB. Complete all graded courses with a cumulative grade point average (GPA) of 2.5 or higher after the first semester for all one-year track programs and 2.5 or higher after each of the first two semesters for all research and extended length programs, and 3.0 or higher after completion of all graded coursework (all programs).
2. Maintain acceptable standards of academic performance.
3. Maintain acceptable ethical, moral, personal or professional conduct.
4. Abide by the University's policies, rules and regulations.
5. Fulfill legal or financial obligations to the University.
6. Show professional promise, including mental and emotional fitness in the biomedical sciences.

Academic Program Length Restrictions

All master's degree students who are not participating in the dual-degree doctor of osteopathic medicine program must graduate within three years of the date of matriculation. The dean of COB must approve exceptions to this policy on an individual basis, taking into account extenuating circumstances only.

Assessment Policy (COB)

Testing/Grading

The school year is divided into fall and spring semesters. The semesters are typically comprised of 15-17 credit hours each for students enrolled in the one-year track. Students enrolled in the research track will take a minimum of 9 credit hours in per semester. The number of semester hours (or unit measure) is calculated by the Registrar.

Testing during a course may consist of:

- Quizzes;
- Exam(s);
- Final Exam;
- Lab practical examinations (if applicable).

Students will receive a letter grade for each course except those designated "satisfactory/unsatisfactory." Points may be assigned for examinations, quizzes, lab exercises, assignments, presentations, and other learning activities.

1. A percentage of the total point score possible for the course will be calculated based on points earned.
2. The course director will assign a letter grade of A, B+, B, B-, C+, C, C-, or F generally based on the following scale:

Grade	% Range	Quality Points
A	90-100%	4.00
B+	86-89%	3.7
B	83-85%	3.3
B-	80-82%	3.0
C+	76-79%	2.7
C	73-75%	2.3
C-	70-72%	2.0
F	<69%/Fail	0.0

4. If the student fails a course, s/he will be dismissed from COB.
5. The registrar will calculate an overall GPA each semester. This information will then be reported to students via PowerCampus Self-Service.
6. A Continuous Quality Improvement evaluation will be completed at the end of each course. All students will be required to fill out an evaluation before receiving their grade for the course.

Course Repeat Policy (COB)

There is no automatic/guaranteed remediation for students who fail a course. Failure of any course(s) at KCU may

be grounds for dismissal from the program. Students who fail a course will be required to appear before StARC to discuss the failure. The StARC will make an appropriate recommendation to the administration, including whether repeating the course is recommended. The administration will consider the StARC recommendation and make a final decision. The student will then be notified as to whether or not he/she has been granted the opportunity to repeat the course. Students are guaranteed the right to appeal any decision by the StARC deciding authority to the dean of COB. All decisions made by the dean remain final.

All course enrollments and earned grades will remain on the student's academic transcript. If a student repeats a course in the COB program, the most recent grade earned is used in the calculation of the student's GPA.

Dismissal from the College of Biosciences

A student may be dismissed from the Master of Science in Biomedical Sciences program for any of the following reasons:

- Failing a course;
- Having a GPA of less than 2.5 after fall semester in one-year track, or less than 2.5 after the first two semesters in the research track program;
- Having a GPA of less than 3.0 after two or more semesters in the one-year track program or less than 3.0 after three or more semesters in the research track program.
- Unsatisfactory performance on comprehensive examination or scientific seminar.
- Not maintaining the standards of ethical, moral, personal and professional conduct required of KCU students.
- Not completing all required coursework within three years of matriculation date.

Graduation and Commencement Requirements

MS in Biomedical Sciences Program

A student who has fulfilled all the academic requirements of their program may be granted a degree from KCU's COB provided the student:

1. Has been in residence at KCU's COB for at least one year and has maintained a GPA of 3.0 or greater and passed all courses;
2. Has completed all curricular requirements within the prescribed program length;
3. Has complied with all legal and financial requirements of the University;
4. Has demonstrated the ethical, personal, and professional qualities deemed necessary for the pursuit of a successful career in the biomedical sciences;
5. Attends, in person, the ceremony at which time the degree is conferred, unless excused by the dean of COB for extenuating circumstances.

Entrance and completion of a degree from the KCU COB does not guarantee further career opportunities up to and including entrance into the KCU College of Medicine or any other medical or professional school.

Latin Honors

The criteria for graduating from COB with Latin honors are as follows:

- Summa Cum Laude: 4.0 GPA
- Magna Cum Laude: 3.9-3.99 GPA
- Cum Laude: 3.8-3.89 GPA

Fellows and students in the one-year and two-year programs are eligible for honors. Students who enter decompression at any point during the program are ineligible to earn Latin Honors.

Fiscal Policies, Tuition & Fees, and Financial Aid

Tuition, Fees & Expenses

College of Osteopathic Medicine

The following fees and tuition apply to the 2016-2017 academic year for the doctor or osteopathic medicine program:

Application Fee (KCU Supplemental)\$50

Fee is payable upon submission of application for admission. (Fee may be waived if applicant receives an AACOMAS fee waiver.) Fee is non-refundable regardless of reason.

Acceptance Fee\$1,000

Accepted applicants need to make sure payment is received according to the following schedule:

- Those accepted prior to November 15 will have until December. 14.
- Those accepted between November 15 and January 14 will have 30 days.
- Those accepted between January 15 and May 14 will have 14 days.
- Those accepted on or after May 15 will be asked for an immediate deposit.

Payment to Admissions is credited toward tuition once payment of the balance of the tuition is received. Acceptance fees should be mailed to the Admissions office. Fee is non-refundable regardless of reason.

Matriculation Fee\$1,000

- Those accepted prior to February 15 will have until March 15.
- Those accepted between February 15 and May 31 will have 14 days to submit a combined acceptance and matriculation fee totaling \$2,000.
- Those accepted on or after June 1 may be asked for an immediate deposit.

Payment is credited toward tuition once payment of the balance of the tuition is received. Mail matriculation fee to the Admissions office. This fee is non-refundable regardless of reason.

Note: Withdrawing prior to matriculation does not negate the no-refund policy.

Full Year Tuition (DO)\$44,370

Term I Tuition Charge \$22,185

Term II Tuition Charge \$22,185

Activities Fee\$75

Technology Fee\$150

Tuition and fees are due and payable in full before the first day of class each term, unless payment arrangements have been made with the Finance Office or when students have loan applications for amounts sufficient to cover tuition on file in the Financial Aid Office.

Note: The above fees are charged in Term I only. Tuition includes parking, library privileges, and laboratory supplies, but not instruments, equipment, computers, texts, lab manuals or health insurance. Tuition is subject to change annually.

Miscellaneous Fees

Official Transcript Fee..... \$15

Books and Instruments

The approximate costs for required textbooks are:

First-Year Textbooks \$3,400

Second-Year Textbooks..... \$1,712

Third-Year Textbooks..... \$500

The approximate cost for instruments is:

First-Year Instruments \$900

National Board Fees

KCU requires successful completion of COMLEX Levels 1, 2-CE, and 2-PE prior to graduation. Examinations (COMLEX) by the National Board of Osteopathic Medical Examiners (NBOME) require the following fees, which are subject to change. National Board fees are paid directly to:

National Board of Osteopathic Medical Examiners

8765 W. Higgins Rd., Ste. 200

Chicago, IL 60631-4174

Telephone: (773) 714-0622

www.nbome.org

COMLEX Level 1 and COMLEX Level 2-CE Fees

COMLEX Level 1 (includes registration fee) \$615

COMLEX Level 2-CE..... \$615

Reschedule or Cancellation Fees

More than 30 days before the exam..... No Charge*

6-30 days before exam..... \$85

1-5 days before exam..... \$190

<24 hours before the exam OR No Show \$225

COMLEX-2-PE Fees

COMLEX Level 2-PE (Approximate) \$1,295

Reschedule or Cancellation Fees

More than 90 days before exam..... No Charge*

30-90 days before exam \$50*

2-29 days before exam..... \$150*

<48 hours before exam \$400*

No-Show Fee..... \$750*

*If candidates must cancel and reschedule any testing date for the COMLEX Level 2-PE examination, significant rescheduling charges may apply. Candidates can cancel a scheduled examination online, unless it is on the same day as the examination. Candidates are advised to contact the

NBOME National Center for Clinical Skills Testing (610-825-6551) immediately if encountering travel delays or the need to cancel an exam session on the day of a scheduled examination; failure to notify NBOME prior to the start of the examination session will result in a cancellation fee of \$650 as noted in NBOME’s Bulletin of Information <http://online.flipbuilder.com/ebwc/mgul/>.

Fees effective July 1, 2016 - June 30, 2017.

Bioethics Dual-Degree Program

The following tuition charges apply to the 2016-2017 academic year. These tuition charges apply only to the class of 2018 and beyond. For more information, please contact the Finance Office.

Full Year Tuition (Dual-Degree)	\$5,642
Term I Tuition Charge	\$2,821
Term II Tuition Charge	\$2,821

College of Biosciences

The following fees and tuition apply to the 2016-2017 academic year:

Application Fee	\$30
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Fee is payable upon submission of application for admission. Fee is non-refundable regardless of reason.

Acceptance/Matriculation Fee	\$500
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Accepted applicants may be required to pay the fee 14 days after their acceptance. The payment schedule for late acceptances may vary. Payment is credited toward tuition once payment of the balance of the tuition is received. Mail acceptance fees to the Admissions Office. Fee is non-refundable regardless of reason.

Note: Withdrawing prior to matriculation does not negate the no-refund policy.

Tuition (One-Year Track)	\$28,472
Term I Tuition Charge	\$14,236
Term II Tuition Charge	\$14,236
Tuition (Two-Year Track)	\$28,472
Student Activity Fee	\$75
Technology Fee	\$150

Tuition and fees are due and payable in full before the first day of each term, unless payment arrangements have been made with the Finance Office, or when loan applications for amounts sufficient to cover tuition and fees are on file in the Financial Aid Office. Students with an unpaid balance 15 days after classes begin will be considered to be on a payment plan and will be assessed a \$50 fee each month the balance remains open, which is in line with the KCU Tuition Payment Plan policy.

Note: The above fees are charged in Term 1 only. Tuition includes parking, library privileges and laboratory supplies, but not instruments, equipment, computers, texts, lab manuals or health insurance. Tuition is subject to change annually.

Books and Instruments

The approximate costs for required textbooks are:

Biomedical Sciences Textbooks	\$1900
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Miscellaneous Fees

Transcript Fee	\$15
Student ID Badge Replacement Fee	\$10

Tuition and fee information and policies for the academic year for both COM and COB are available online at <http://www.kcumb.edu/admissions/financial-aid/tuition-fees/>.

Finance Policies

Tuition and fees are due and payable in full before the first day of class each term unless special arrangements have been made with the Finance Office or when students have loan applications for amounts sufficient to cover tuition on file in the Financial Aid Office. The University reserves the right to change the schedule of tuition and fees without advance notice and to make such changes applicable to present as well as future students.

Tuition Payment Plan

KCU offers students an option to extend the repayment period for tuition and fees rather than through long-term financing. The University provides multiple plans to fit the varying needs of their students. Students may choose to extend their repayment period up to five months; however an application fee will apply.

The application fee per plan is determined by the length of the plan and has been designed as a less costly alternative to the Federal Direct Unsubsidized and GradPLUS origination fees and accrued interest.

Students must confirm their length of desired plan to the Finance Office prior to making their first payment. The application fee will be added to the student’s open balance, which must be paid in full by their selected due date.

After their initial payment is made, students will be provided the flexibility to pay as little or as much throughout their repayment period while ensuring their balance will be paid in full by their selected due date. Students will be required to make an initial payment – equal to their open balance divided by the number of months selected - prior to the start of class.

Below is an example of the available payment plans, with the first payment minimum based upon a \$20,000 open balance:

Total Repayment Months	Application Fee	First Payment Minimum
2	\$50	\$10,000
3	\$100	\$6,667
4	\$150	\$5,000
5	\$200	\$4,000
6	\$250	\$3,333

All checks should be made payable to KCU and mailed to:

KCU Finance Department
1750 Independence Ave.
Kansas City, MO 64106

Payments must be received by the Finance Office no later than the end of business on the specified due date. For funds received after the due date, an additional \$50 late fee may be charged to the student's account.

Additionally, for every 14 calendar days payment has not been received, an additional fee of \$25 may be charged to the student's account. Students are encouraged to view their most current balance via PowerCampus Self-Service prior to making their final payment.

Students should communicate with the Finance Office if they wish to pay off their balance earlier than anticipated. Should the balance be paid in full prior to the original due date, KCU will issue a credit based upon the actual number of months of repayment.

Additionally, students with an unpaid balance 15 days after classes begin will be considered to be on a payment plan and will be assessed a \$50 fee each month the balance remains open, which is in line with the KCU Tuition Payment Plan policy above.

Payment and Tuition Refund Policy Related to the MBA in Healthcare Leadership Program

Students enrolled in the MBA program receive all of their financial aid from KCU for the Rockhurst MBA program. Only Private/Alternative loans are available to fund this program. There is no federal aid eligibility for this program of study. KCU Finance will bill the student and all payments for tuition are submitted to KCU. These payments are credited separately from COM accounts.

Rockhurst University manages the registration, curriculum content, faculty and graduation requirement components of the program. Rockhurst University awards the MBA degree. KCU students enrolled in the dual KCU-Rockhurst MBA program must maintain satisfactory academic progress in the COM program to continue in the MBA portion of the program.

Students failing to maintain satisfactory academic progress will be required to withdraw from the MBA portion of the program. The curriculum is divided into three segments and corresponds to the three time phases of the MBA program. One-third of the total tuition is allocated to each phase of program. Tuition is due and payable before the initiation of each segment. The official start dates for each segment will be found at <http://www.kcumb.edu/admissions/financial-aid/>

The tuition refund shall follow the [Institutional Refund Policy for All Programs](#); please review policy for details.

Past Due Balances

Tuition is due no later than the first day of class. Balances not collected within 30 days of their due date or within 30 days following the application/return of financial aid will be deemed as part of the KCU Tuition Payment Plan and

be assessed additional fees in accordance with that plan. Failure to pay balances may also result in academic and/or records holds being placed on the student's account. Any account balance deemed uncollectible by the University may be subject to placement with a debt collection agency.

General Tuition and Fees Refund Policy

Withdrawal & Refund Policy

Any student wishing to withdraw from all courses and leave the University (become a non-student) must submit a letter of withdrawal to the dean of COM or dean of COB, as applicable; then complete the University check-out process as outlined under the procedures component of this policy.

Failure to complete the checkout process within 10 business days of non-attendance, unless otherwise approved, will result in the University withholding all student academic records until such a time that the requirement is met. The University withdrawal effective date is determined by the appropriate college dean and is typically based on the date the request for withdrawal was received.

Institutional Refund Policy for All Programs

Tuition and requisite fees are charged at the beginning of each academic term. Fees are only charged in the first term of the academic year and are not eligible for refund. Eligible tuition refunds, less non-refundable acceptance/matriculation fees, are prorated based on the following schedule:

- 100 percent refund for withdrawal prior to the 1st day of term;
- 75 percent refund if withdrawal is within the 1st-14th calendar day of the term (student owes 25 percent of the term tuition);
- 50 percent refund if withdrawal is within the 15th-28th calendar day of the term (student owes 50 percent of the term tuition);
- 25 percent refund if withdrawal is within the 29th-42nd calendar day of the term (student owes 75 percent of the term tuition).
- No refunds are granted if the withdrawal is after the 42nd calendar day of the term (student owes full term charges).
- There are no refunds for courses for which a grade of I (Incomplete) or IP (In Progress) is received.
- If a student is asked to leave the University for academic or disciplinary reasons, all rights to adjustments of tuition are forfeited.
- No person may secure copies of their academic records until their account is paid in full.

Title IV Institutional Refund & Return to Title IV Policy

This policy applies to all students who have utilized federal Title IV funding in support of their tuition and fees, who

withdraw, go on a leave of absence greater than 180 days or are suspended, dismissed and/or expelled from the University.

1. The term Title IV Funds refers to the federal financial aid programs authorized under the Higher Education Act of 1965 (as amended) and includes the following programs: Federal Direct Unsubsidized Loan, Federal Direct Subsidized Loan, Federal Direct GradPLUS and Federal Perkins Loan programs.
2. A student's withdrawal date for Return of Title IV funds (R2T4) purposes is:
 - a. The date the student began the institution's official withdrawal process or officially notified the institution of their intent to withdraw; or
 - b. The midpoint of the term for a student who leaves without notifying the institution; or
 - c. The student's last date of attendance at a documented academically related activity.
3. When a student who has received Title IV, HEA funds leaves school for any reason prior to completing greater than 60 percent of the period of enrollment pro-rated to a payment period (the period for which a student received one of the two disbursements of Title IV funds), will have all or a portion of their financial aid funds returned to the appropriate aid program(s) by the University.
4. Federal regulation 34 CFR 668.22 (Return of Title IV Funds) requires the school to calculate the total number of calendar days in the period, then the number of calendar days the student attended. The student's "earned" and "unearned" percentages are determined. The "unearned" funds paid to the school must be returned to the appropriate Title IV programs within 45 days of the student's date of withdrawal. The student will then be responsible for the payment of the remaining tuition balance due per the KCU refund policy. The student will be notified of these amounts at the time of their checkout from the University.
5. The Return of Title IV Funds calculation, which is determined based upon a payment period and tuition/fees (institutional charges) paid for that period, differs from the University's Institutional Refund Policy which is based upon the academic year and the full cost of tuition for the year.

Example: A second-year COM student who starts classes on August 5 and withdraws from school on August 23, 2015, (third week) has "earned" 13.9 percent (completed 18 calendar days/129 total calendar days in period) of the \$32,622 received from first disbursements of Title IV funds. The school retained \$22,086.50 from these disbursements to pay institutional charges (half of the annual tuition; \$21,861.50 plus required fees of \$225). The school must return 86.1 percent (amount unearned), or \$19,016.47, to Title IV loan programs. Per the KCU refund policy, the student is refunded 50 percent of the tuition based on the date of withdrawal. The student is given \$10,930.50 tuition refund. Total owed

back would be \$19,016.47, subtracted from tuition refund \$10,930.50.

6. If a student earned more aid than was disbursed to him/her, the student could be eligible for a post-withdrawal disbursement which must be paid within 120 days of the student's withdrawal.

In accordance with federal regulations, refunds are allocated in the following order: Federal Direct Unsubsidized Loan; Federal Direct Subsidized Loan; Federal Perkins Loan; Federal Direct GradPLUS. Then any other federal, state or private refund requirements apply, if applicable; and finally, the student.

Finance Appeals Committee

Students wishing to appeal any charges to their student account, the amount of their refund, or any matters having to do with their student account with the Finance Office may request to submit an appeal to the Finance Appeals Committee. Students need to notify, in writing, their desire to appeal an issue to the Vice Provost for Enrollment and Student Services or Associate Dean of Student Affairs. Once notification has been received and verified, the student will be given 5 business days to submit their full appeal, in writing, to the Vice Provost for Enrollment and Student Services. The Vice Provost will then convene the Finance Appeals Committee for a full review of the matter.

The Finance Appeals Committee reserves the right to meet with the appealing student, but does not necessarily meet with every appealing student. Once reviewed, the Committee will provide the student with a written ruling on their decision. Students have the right to appeal the Committee's decision, for any reason, to the CFO of the University. That appeal must be submitted in writing within 48 hours of receipt of the Finance Appeals Committee's decision. The CFO will then respond to the appeal in an appropriate time frame.

KCU c/o Office of Student Affairs

1750 Independence Ave.
Kansas City, MO 64106

Student Financial Aid

The following provides general KCU financial aid information and summarizes key portions of the University's financial aid processes, guidelines, and policies. Regulations and requirements concerning these issues change regularly. For further information and details, please contact the Financial Aid Office or visit www.kcumb.edu/admissions/financial-aid.

KCU's education is an investment in your future. Students should live at modest level while completing their education to minimize their expenses in order to keep their debt levels in check. Financial aid typically consisting of loans is available for a student's direct educational costs and living expenses while he or she receives an education. The primary federal sources are the federal direct unsubsidized and GradPLUS loan programs. The unsubsidized and Grad PLUS loans accrue interest from disbursement. Refer to [Loan Programs and Sources](#) for maximum borrowing

amounts for each program.

Students should budget their money wisely to pay for all expenses required while they are enrolled in school. Each year KCU's financial aid office builds a cost of attendance (COA) that can include; tuition and fees; room and board (or a housing and food allowance); an allowance for books, supplies, transportation, loan fees, and dependent care. It also includes miscellaneous and personal expenses, including an allowance for the rental or purchase of a personal computer; costs related to a disability; and reasonable costs for eligible study-abroad programs.

Federal law states that the budgets used to determine financial aid eligibility can only include the student's costs: spouse and/or children's expenses cannot be included. Living costs for family members must be covered by the student and spouse's earnings and/or assets. Financial aid can cover reasonable child care for children age 12 and younger for periods of enrollment. Please view this information under [budget adjustments](#).

The Financial Aid Office staff are available to assist students in understanding the financial aid process, funding options and repayment strategies.

Consumer Information

In compliance with federal student aid regulations, KCU's consumer information is available for prospective and current students to review online at <http://www.kcumb.edu/about/who-we-are/consumer-information/>.

General Financial Aid Policies

The Financial Aid Office attempts to make adequate financial assistance available to all students within the limits of the student budget and the availability of loans and scholarships. A comprehensive student expense budget has been designed to cover tuition, educational costs and reasonable living expenses for each academic year. Budgets are designed for the student only and are not intended to cover family living expenses or to cover debt incurred prior to attendance at KCU.

The Financial Aid Office takes seriously its responsibility to provide a reasonable expense budget and to monitor long-term student debt. Based upon these principles, all financial aid awarded, which includes federal, state and private programs, will be determined within federal financial aid guidelines and the limits of the student budget.

Default

Students who ignore student loan repayment risk going into default. Default of a student loan is failure to repay the loan according to the terms agreed to in the promissory note. Default also may result from failure to submit requests for deferment on time. A loan is considered to be in default if payments are not made for 270 days.

If a student defaults, the college, the organization that holds the loan, and the state and federal governments can all take action to recover the money. The federal government and the loan agencies can deny a school's participation in the student loan programs if the school's default rate is

too high. The University will withhold the transcript of any student who is in arrears or in default under any loan or loan program where such arrearage or default adversely affects the University in any way.

Financial Aid Eligibility

To be eligible for federal assistance, a student must:

1. Be enrolled at least half-time in a degree or certificate program that leads to gainful employment and be in good standing, making satisfactory progress.
2. Not be in default on any loan from a student loan fund or on a loan guaranteed or insured under the Federal Student Loan Program.
3. Not owe a refund on a federal grant previously received or in default of other federal debt.
4. Meet other eligibility requirements, such as those related to selective service registration, citizenship, drug convictions* and aggregate aid limits.

*Note: Conviction for any offense, during a period of enrollment for which the student is receiving Title IV, HEA program funds, under any federal or state law involving the possession or sale of illegal drugs will result in the loss of federal aid eligibility.

For more information regarding eligibility, go to <http://studentaid.ed.gov/SA/eligibility>.

Financial Aid Application Process

Step 1: FAFSA Application

Each year, students must complete the Department of Education's Free Application for Federal Student Aid (FAFSA) posted online at www.fafsa.ed.gov.

KCU's Title IV school code is: G02474. Parental information is not required.

IRS Data Retrieval (if available) should be selected. FAFSA applications filed with a "Will File" tax filing status must be updated to "Already Completed" and selected IRS Data Retrieval to populate tax information once taxes are complete.

Step 2: Review Student Budget (Cost of Attendance)

This budget information is provided to assist in estimating your monthly budget and managing your available financial resources (e.g., employment earnings, financial aid and assistance from family members) for the upcoming academic year. Budget Information can be located at:

COM- <http://www.kcumb.edu/admissions/financial-aid/tuition-fees/com/>

COB- <http://www.kcumb.edu/admissions/financial-aid/tuition-fees/cob/>

Step 3: KCU Application

The Financial Aid Office offers a convenient online application process available at <https://netpartner.kcumb.edu/>. Students are required to complete an application for financial aid, review the required forms, check the status of

missing forms, and accept/decline/reduce their aid award.

- **For Incoming Students:** After the acceptance and matriculation fees have been paid, Student Financial Aid will contact the student when the application for financial aid becomes available and provide instructions for the online application process. Students who are new borrowers to Direct loans complete the online Federal Entrance Counseling session at www.studentloans.gov in order to receive federal loan funds.
- **For Continuing Students:** The Financial Aid Office will email the online application instructions to all students through their KCU email account. Once the student has completed the application, the Financial Aid Office will take the following steps to finish the financial aid process.

Impact of Drug Conviction on Title IV Eligibility

Please be advised that under federal law a recipient of Title IV student financial assistance, who is convicted for possession and/or sale of illegal drugs while enrolled as a student at KCU, will be ineligible for further Title IV funds for a fixed period of time, as indicated below.

First offense

Possession of Illegal Drug - One year from conviction date
Sale of Illegal Drug - Two years from conviction date

Second offense

Possession of Illegal Drug - Two years from conviction date
Sale of Illegal Drug - Indefinite period

Third (+) offense

Possession of Illegal Drug - Indefinite period
Sale of Illegal Drug - Indefinite period

If convicted of both possession and selling illegal drugs, and the periods of ineligibility are different, the student will be ineligible for the longer period. A student regains eligibility the day after the period of ineligibility ends or when the student successfully completes a qualified drug rehabilitation program. The student will lose eligibility again upon a subsequent drug conviction. For more information regarding eligibility, go to <https://studentaid.ed.gov/sa/eligibility/regain>.

Determination of Awards

Once the student has submitted all required documents and completed forms as listed on the application for financial aid, the Financial Aid Office determines the student's aid eligibility at KCU. Processing of financial aid is done in the order the files became complete for packaging.

All financial aid awarded – which includes federal, state and private programs – will be determined within federal financial aid guidelines. The calculation to determine financial aid eligibility is: cost of attendance (KCU student budget) minus expected student and family contribution from FAFSA (for need-based aid) and outside resources (scholarships, parental assistance, etc.) equals eligibility.

$$\text{Cost of Attendance (Budget)} - \text{Expected Student/Family Contribution (from FAFSA)} - \text{Outside Resources} = \text{Aid Eligibility}$$

The comprehensive student budget has been designed to cover tuition, educational costs and reasonable living expenses for each academic year. Budgets are designed for the student only and are NOT intended to cover family living expenses or to cover debt incurred prior to attendance at KCU.

Each student must complete a Direct Loan Master Promissory Note (MPN) and a Direct GradPLUS loan MPN online at www.studentloans.gov in order to receive funds from these programs.

The Federal GradPLUS requires good credit. The Federal Direct Loan program reviews the student's credit to determine approval or denial of the loan. If denied, the student may appeal the denial or apply with an endorser (co-signer). Students who are unable to obtain the loan will need to rely on personal resources to finance the balance of their educational costs. Students can contact the loan origination center at 800.557.7394, Monday-Friday, 8 a.m.-8 p.m. with questions about the credit denial and endorser process.

Notification of Awards

Once the student has been awarded, they will be notified via his/her KCU email account to log in to NetPartner to view the aid and accept/decline/reduce the aid offered. The award letter shows the cost of attendance (student budget) according to the student's program/class, and the total annual financial aid awards the student may receive from all sources. Beyond the sources of assistance indicated on the award letter, a student may seek out private scholarships.

Student Loan Disbursements

- Student loans are disbursed in two equal disbursements, with the first at the beginning of the academic year.
- To be eligible for the second disbursement for all years in COM, the student must have successfully completed the coursework and half of the weeks of instructional time.
- The student will be notified by email when the loan money has credited to their KCU tuition and fees. Student can expect any excess funds refunded to the bank account selected during direct deposit set up. The refund process may take up to 14 days to complete. This means that students may not have access to funds for several weeks after school has started.
- The student can check the disbursement schedule at the beginning of the academic year. The schedule is available to view on NetPartner under the Disbursements tab - <https://netpartner.kcumb.edu/>
- Direct loan funds are received into the University's bank account by electronic funds transfer from the U.S. Treasury. The funds then are disbursed to the student's tuition account by the Finance Office for

the amount of tuition and fees due at that time, and the remainder is refunded to the student for other educational and living expenses.

- KCU PHOS Scholarships, Perkins loans and Primary Care loans are disbursed in two disbursements.

Conflicting Information

If a review of student financial information reveals discrepancies or shows conflicting information, no federal, state or other financial aid will be released until the discrepancy or conflicting information is resolved. The following guidelines concerning discrepancies are in effect:

- Students who fall into this category may be school-selected for verification. A verification worksheet will be mailed to the student by the Financial Aid Office;
- The student will be given every opportunity to provide an explanation or documentation to resolve the conflict;
- If the Financial Aid Office gives an adverse decision, the student may submit a written request for appeal to the director of financial aid.

Verification of Student Financial Information

Information about the verification process is available online at <http://www.kcumb.edu/admissions/financial-aid/policies-eligibility/verification/>.

University Scholarships

These scholarships are available to COM students only. Physicians' Hall of Sponsors scholarships are offered by donors through the University's Advancement Office. Students will be notified by email when the application is available to complete. These scholarships are for continuing students. First year students are awarded from the admissions office.

Loan Programs and Sources for All Students

Federal Direct Unsubsidized Loan – Department of Education Title IV

<https://studentaid.ed.gov/sa/types/loans/subsidized-unsubsidized>

- This program provides \$20,500 per year. Interest accrues from the date of disbursement; student is responsible for interest during all periods; ED is the lender; payment is owed to ED, but serviced by a company contacted with ED; unpaid interest will capitalize at repayment.
- Current interest rate and origination information can be found online at <https://studentaid.ed.gov/sa/types/loans/interest-rates>. An origination fee is charged and deducted from the loan proceeds.
- Direct loans offer a six-month grace period.
- The cumulative maximum Direct Loan limit for medical students is \$224,000.
- The cumulative maximum Direct Loan limit for graduate students is \$138,500.

Additional Unsubsidized Loan for Medical Students

<https://studentaid.ed.gov/sa/types/loans/subsidized-unsubsidized>

- This program allows DO students an additional \$20,000 (nine-month academic year) up to \$26,667 (12-month academic year) per year.

Federal Direct Graduate PLUS (GradPLUS) Loan

<http://studentaid.ed.gov/types/loans/plus>

- A GradPLUS loan is a federally guaranteed credit-based loan. A credit check is required.
- This loan has a higher interest rate than the Direct Unsubsidized loan.
- The loan does not have an aggregate limit.
- The GradPLUS enters repayment immediately after it is fully disbursed, at which time it is placed in an in-school deferment while the student continues in school.
- The loan enters a six-month post-enrollment deferment at the time the student is no longer enrolled. The same deferment and forbearance options apply as with federal direct loans.

Federal Perkins Loan – Department of Education Title IV

<http://studentaid.ed.gov/types/loans/perkins>

- Perkins monies are contingent on the availability of funds and the demonstration of need according to federal regulations and University guidelines.
- The interest rate is five percent.
- Loan limits are up to \$8,000 per year with a total aggregate of \$60,000, including undergraduate loans.

For more information regarding Title IV federal student loans, go to: <http://studentaid.ed.gov>.

Primary Care Loan (PCL) – Health and Human Services Title VII

<http://www.hrsa.gov/loanscholarships/loans/primarycare.html>

- Applies to COM students only.
- A student must commit to primary care including the internship, residency and practice.
- The interest rate is five percent. Loan amount is contingent upon the availability of funds.
- Parent financial information is needed.
- The loan is available to third- and fourth-year students only.

Private/Alternative Loans - Varies

KCU does not recommend private loans for programs that are eligible for federal aid. A student may choose to borrow a private loan after receiving counseling in regard to the advantages of federal loans versus private. In accordance with Sec. 128(e)(3) of the Truth in Lending Act (15 U.S.C. 1638(e)(3)), a Self-Certification form is available upon request from the Financial Aid Office although the form is routinely provided to the student by the private loan lender during the application process. Also upon request, the Financial Aid Office will assist the student in the completion

of the form if needed.

This is the only type of funding available to students in the Rockhurst MBA program.

Service Obligation Scholarships for COM Students

Armed Forces Scholarship Program

To be eligible for the military scholarship, a student must be a U.S. citizen. Recipients are provided full tuition, fees, books, equipment and a monthly stipend. For each year of scholarship support, the student must serve one year in the designated service branch. The minimum obligation is two years. KCU traditionally has a high number of students receiving military scholarships.

Military and National Health Service Programs

For military programs, students should contact their recruiter or the recruiters on the list that follows:

U.S. Army

U.S. Army Health Care Recruiter
7500 College Blvd., Ste. 720
Overland Park, KS 66210
913.469.1795

U.S. Navy

U.S. Navy Medical Officer Programs Recruiter
Navy Operations Support Center
3100 Emanuel Cleaver II Blvd.
Kansas City, MO 64130
816.924.4278

U.S. Air Force

Air Force Recruiting Office
4600 SE 29th St., Ste. 356
Del City, OK 73115
405.672.1253

National Health Service Corps

Health Resources and Services Administration
Bureau of Primary Health Care
Division of Scholarships and Loan Repayments
<http://nhsc.hrsa.gov/scholarships/index.html>
800.221.9393

Veterans Benefits

Matters pertaining to the Veteran's Administration should be directed to the Financial Aid Office. Additional information is available online - <http://www.kcumb.edu/admissions/financial-aid/scholarships-loans/veterans/>.

Budget Adjustments

Financial aid, as awarded or borrowed under federal or private programs, cannot exceed the KCU student budget. The University attempts to make adequate financial assistance available to all students within the limits of the student budget and the availability of loans and scholarships.

Federal regulations allow schools to adjust a student's cost of attendance for certain circumstances on a case-by-case basis. KCU will increase a student's cost of attendance for other reasonable education-related expenses that exceed a student's budget. KCU has a no cash policy. The Financial Aid Office must be able to substantiate your expenses for your file. This a reimbursement process. Purchases should be made using a form of payment in your name.

If the adjustment request is denied the student has the right to appeal the decision in writing. The appeal will then be taken to the Student Financial Aid Advisory Committee. Their decision in this matter is final. The Director retains the discretion of professional judgment on a case-by-case basis.

May 1 is the deadline for submission of these forms, and there could be an earlier date for graduating fourth-year students who may have an earlier last date of attendance. No adjustments will be considered after the loan period has expired for that academic year. An exception may be made for medical/dental expenses for which an insurance claim has not been paid. If you have questions about this policy, please contact the Financial Aid Office, 816.654.7175, or finaid@kcumb.edu.

Budget Adjustment Categories

- **Care of Dependents:** If a student pays for a third party to watch their dependent, KCU can increase the student cost of attendance for these expenses. The increased cost will not exceed a reasonable cost for dependent care in the community. Students must complete the 2016-2017 Dependent Care Budget Adjustment Form and provide all required documentation that is specified on the form.
- **Computer Purchase/Electronic Purchase:** All KCU students are required to have either a laptop computer or tablet meeting KCU specifications. Only one increase is allowed per student's academic program. The purchase can include the purchase of a CPU, monitor, printer and other reasonable hardware/software. Students are permitted to purchase the computer July 1 if starting in the fall. The maximum allowance is \$1500. Students will need to complete a 2016-2017 Budget Adjustment Request form.
- **Medical/Dental Expenses:** The student financial aid budget includes an allowance for medical/dental expenses and health insurance. It is KCU policy that all students provide proof of health insurance, and budget adjustments will be considered only for those students complying with that policy. Budget adjustments will not be made for the purchase of health insurance that costs more than is allowed in the budget. A budget adjustment can be made for medically necessary procedures and medically necessary prescriptions for the amount which exceeds the budget allowances. Students must provide written verification of health insurance coverage (this is part of the 2016-2017 Budget Adjustment Request Form). If a student purchases dental insurance, they must provide proof of dental health insurance with effective dates covering the enrollment period. If the student does not have dental insurance, a budget adjustment

will be made for the amount that exceeds the budget allowances for medical/dental expense.

- **Tuition Adjustment:** Students may receive a budget adjustment for tuition charges in excess of what is allowed in the Cost of Attendance. On the 2016-2017 Budget Adjustment form, this information should be included in the section called “other.” This is applicable to the MBA and the dual-degree bioethics programs.
- **Vehicle Repairs:** While a student’s financial aid budget includes an allowance for maintenance of a vehicle, an adjustment can be made for car repairs that exceed the budgeted amount. Financial aid budgets cannot be increased for the purchase of a vehicle. Expenses above the budgeted amount are covered on one primary vehicle per year. Once a student has submitted receipts for a vehicle, that vehicle becomes “primary” in terms of consideration for budget appeals. The budget adjustment increase will represent the difference between the actual repairs and budget allowance. Receipts must be submitted for any repairs for which the budget adjustment is being requested. Receipts must be submitted prior to the release of any subsequent financial aid. Since the budget includes an allowance for comprehensive and collision car insurance, a 2016-2017 budget adjustment for an accident will cover a reasonable deductible of \$500. If the student has not purchased comprehensive and collision car insurance, the Financial Aid Office will not increase the budget to cover any expenses any expenses which would have been covered by insurance.
- **Other Expenses:** Students having other extenuating circumstances should complete the appropriate section of the 2016-2017 Budget Adjustment Request Form and make an appointment to meet with a staff member in the Financial Aid Office.

Student Aid Revision Policy

In order to prevent or minimize over-awards, reduce student debt and comply with federal, state and private aid programs, the following policy is in effect: At the time a student receives other aid after the initial financial aid package is determined, the student’s aid will be re-evaluated to determine his/her new eligibility and whether an over-award will occur.

The Financial Aid Office will take steps necessary to reduce or eliminate the over-award to the extent of his/her control. If an over-award occurs, the procedures listed below will be followed:

- KCU will determine if the student had any increased financial need that was not anticipated at the time of the aid application and/or award.
- If no increased need is demonstrated, and the student’s total aid still exceeds his or her need, and not all aid has been disbursed any undisbursed loans will be cancelled to correct the over award.
- After all efforts have been exercised by the Financial Aid Office to reduce/eliminate the over-award, per

federal guidelines, a Direct Loan Unsubsidized/ Graduate PLUS borrower who is over-awarded and all funds have been disbursed at the time of the additional aid notification the student will not be required to repay funds that were delivered in excess of need. However, if the over-award was caused by the student misreporting or withholding information, the loans will be reduced and funds will be returned.

- In the event an over-award exists due solely to scholarships, vocational rehabilitation, etc., with no loans involved, the Financial Aid Office will contact the program’s administrator to coordinate the programs appropriately.
- If the additional resource is specifically being applied to tuition (as with scholarships or vocational rehabilitation), the resulting refund will be returned to the loan programs to reduce any over-award. In the event a personal check was given to pay any part of the tuition, it will be determined whether an equivalent amount of loan funds was delivered to the student creating the over-award. These funds will also be returned to the lender of the loan program to the extent of the loan funds delivered to the student.
- A revised award notification email will be sent to the student if aid is adjusted.

Financial Aid Implications of a Leave of Absence

For Title IV purposes, a leave of absence (LOA) may be designated as either unapproved or approved. An LOA that does not meet all of the conditions for an approved LOA is designated as unapproved and considered a withdrawal. In this case, an R2T4 calculation is required, and the withdrawal date is the date the student begins the LOA.

An approved LOA is treated as a temporary interruption in a student’s education instead of being counted as a withdrawal. In this case, no R2T4 calculation is required, and the student remains in an in-school status for Title IV loan repayment purposes.

To qualify as an approved LOA:

- The school must have a formal written policy regarding leaves of absence requiring that all requests for leaves of absence be submitted in writing and include the reason for the student’s request;
- The student must follow the school’s policy in requesting the LOA;
- There must be a reasonable expectation that the student will return from the LOA;
- The school must approve the student’s request for an LOA in accordance with the school’s policy;
- The institution may not assess the student any additional institutional charges, the student’s need may not increase, and therefore, the student is not eligible for any additional Federal Student Aid;
- The LOA, together with any additional leaves of absence, must not exceed a total of 180 days in any 12-month period. This 12-month period begins on the first day of the student’s initial LOA;

- A student returning from an LOA must resume training at the same point in the academic program that he or she began the LOA. If a student returns early, the days the student spends in class before the course reaches the point at which the student began his or her LOA must be counted in the 180 days maximum for an approved leave of absence. In addition, a student returning from an LOA must complete the term to be eligible to receive a second or subsequent disbursement. In the event a student does not return to KCU at the expiration of an approved LOA, the student will be considered to have withdrawn. In this case, an R2T4 calculation is required, and the withdrawal date is the date the student began the LOA. KCU will report to the student's loan holders a change in enrollment status as of the withdrawal date. This may result in negative consequences on the student's loan repayment terms, including exhaustion of the student's grace period. Because of the stringent criteria that must be met, KCU can grant LOA's that meet the Department of Education's criteria for an approved LOA in a very limited number of cases. Therefore, as part of the prescribed KCU withdrawal procedures, students are required to meet with the Director of Financial Aid in order to determine the effects of the LOA on their eligibility for federal student aid.
- A student on a leave of absence (LOA) or on a vacation block is not eligible to receive financial aid during that time. The approved LOA will not count against the student in the maximum time frame to complete their degree.
- A student on a Fellowship will not have that time away from the program count against the student in the maximum time frame to complete their degree.
- Students should contact the Financial Aid Office prior to going on an approved leave of absence to determine what financial aid implications this will have on their federal financial aid eligibility.

Repeated Coursework

A student may receive aid for repeating a previously passed course only once with prior approval from the Student Performance Committee. Repeated courses are counted as credits attempted and either earned or unearned, but only the most recent grade earned is used to calculate GPA.

Repeat Academic Year

Repeating an academic year may have implications regarding your satisfactory academic progress. Students who will be repeating a year should contact the Financial Aid Office for more information.

Transfer Credits

Transfer credits which are accepted by the Office of the Registrar toward the student's current program of study will be factored into the GPA calculation and counted as credits attempted and either earned or unearned when determining SAP. All other transfer credits are excluded.

KCU Satisfactory Academic Progress for Financial Aid Consideration

Federal regulations require schools to monitor the academic progress of Title IV financial aid recipients. KCU must certify that students are making satisfactory academic progress (SAP) toward the completion of their KCU degree. KCU follows the regulations set forth by the Department of Education that students are meeting the three required measurements to determine SAP: qualitative (GPA), quantitative (progression) and time frame. The Financial Aid Office works closely with the Student Performance Committee (SPC) and the Student at Risk Committee (StARC) which track students' academic performance. Students must be in good academic standing with Financial Aid as well as SPC and StARC policies to maintain continued enrollment and financial aid.

The policy applies to students who are receiving federal aid, however these standards are cumulative so this includes all periods of the students enrollment, which may include times when the student did not receive federal aid.

Please review SAP information at <http://www.kcumb.edu/admissions/financial-aid/policies-eligibility/academic-standards/>.

SAP for COM Students

GPA (Qualitative)

To qualify for federal financial aid, a COM student must attain a minimum 2.00 cumulative GPA (passing grade) on a 4.0 scale to be eligible for the first and second year. COM students enrolled in clerkships and beyond MSI and MSII (basic science) are graded on a Pass/Fail grading system. These grades are not included in the cumulative GPA. Financial aid considers the grade of Pass to be the equivalent of receiving a 70 percent or higher in measuring SAP.

Attempted vs. Completed (Quantitative)

Financial aid requires all COM students to complete 67 percent of credit hours attempted in a term. This is determined by reviewing the total number of courses attempted and the total number of courses completed in the academic year. In order to determine a student's pace progression, KCU divides the total number of courses successfully completed in the academic year by the total number of courses attempted to give a completion rate.

Attempted hours will include repeated, failed (F), incomplete (I), withdrawn (W), and any (T) transfer hours.

Pace Progression (Maximum Time Frame)

Program	Typical Time Frame	Maximum Time Frame
COM	4 years to graduate	6 years to graduate

Students are expected to make satisfactory progress toward their degree each academic year. Students must complete the program within six academic years of the matriculation date in COM. The SPC may grant an additional year in rare and extenuating circumstances. Students who do not complete their degree in six academic years will not be eligible for additional aid without a financial aid appeal.

Students will need to contact the Financial Aid Office to determine aid eligibility. The Financial Aid Office will advise the student of the appeals process for additional aid eligibility to complete their degree if they have met the maximum time frame limit and are allowed to stay beyond year six.

SAP Review (COM)

SAP will be reviewed *annually* at the end of an academic year for COM. This will be done prior to disbursement of subsequent aid for the next academic year. The entire prior year will be reviewed to determine eligibility. The Financial Aid Office will review all students enrolled for the term to determine a student’s SAP status, this is regardless of financial aid received.

Students will be notified by email if they fail to meet the minimum standards outlined above, this email communication will include an explanation of the standards evaluated and instructions on how to proceed with the appeal process.

COMLEX Failures

A student who fails any portion of the COMLEX and is permitted by the SPC to remain enrolled in their program of study, and who also meets all satisfactory academic progress eligibility standards is considered to be making SAP.

SAP Appeal Process (COM)

Students will be notified by email from the Financial Aid Office if an appeal needs to be submitted to continue receiving federal aid at KCU. Students will be asked to submit an appeal form to the Financial Aid Office. The financial aid form will require the student to complete the information listed below:

1. A written statement documenting the reasons for failure to meet the standards of academic progress for financial aid eligibility. The statement should be concise but long enough to address the students mitigating circumstances. There is no school defined length. Examples can be serious illness of student or family member, death of relative or disruptive personal issue.
2. A written statement explaining what has changed in the student’s situation that would allow the student to bring his/her academic progress up to the satisfactory standards.
3. Documentation supporting his/her regarding the information on the appeal if requested.
4. A written academic plan or letter from the SPC.

If the appeal is granted, and it is determined that the student should be able to meet SAP standards by the end of the subsequent payment period, they will be placed on financial aid probation with an academic plan. A student’s progress must be reviewed at the end of their probationary period.

Academic Plan (COM)

If a student fails to make SAP, the Student Progress

Committee will work with the student to create a written academic plan that is designed to help the student improve his/her performance. Once established, the plan must be submitted by the student to the Financial Aid Office as component of the SAP appeal.

Financial Aid Probation (COM)

Financial aid probation is federally defined as the status assigned to a student who fails to make SAP but who successfully has appealed the school’s determination that he/she is not meeting the school’s academic progress standards. The probation is generally limited to one term. In some instances, it may be mathematically impossible for a student who is on financial aid probation and in compliance with all requirements of his/her academic plan to achieve the minimum SAP standards by the conclusion of one term. The mathematical impossibility may be related to GPA, pace, or both. If at the end of a probationary period, the student has met all requirements of the academic plan but is still not meeting the minimum SAP standards, he/she will be eligible to receive aid for the next term. Progress will be reviewed at the end of each subsequent term until the student has either achieved SAP or violated the terms of the academic plan and become ineligible to receive additional federal student aid at KCU. A student’s progress will be reviewed at the end of each payment period as is required of a student on probation status. If the student is meeting the requirements of their probation with an academic plan, the student is eligible to receive financial aid funds as long as student continues to meet those requirements. Students must appeal to change their plan.

Without Approved Appeal (COM)

Students who are not making satisfactory academic progress and do not submit an appeal, or have their appeal request denied, may regain eligibility only by taking action that brings them into compliance with KCU’s satisfactory progress standards. Any exceptions to this policy will be made on an individual basis and in compliance with federal, state and local regulations governing financial aid.

SAP for COB Students

GPA (Qualitative)

Students in both the one-year and two-year tracks are considered in good academic standing when they complete each term with a cumulative GPA of 3.0 or higher. Students with a cumulative GPA lower than 3.0 will be placed on financial aid warning for the next academic term. All students graduating from the 1-year and 2-year programs must have a cumulative GPA of 3.0 in order to graduate from the program.

Attempted vs. Completed (Quantitative)

Financial aid requires all COB students to complete 67 percent of credit hours attempted in a term. This is determined by reviewing the total number of courses attempted and the total number of courses completed in a term. In order to determine a student’s pace progression, KCU divides the total number of courses successfully completed in a term by the total number of courses attempted to give a completion rate.

Attempted hours will include repeated, failed (F), incomplete (I), withdrawn (W), and any (T) transfer hours.

Pace Progression (Maximum Time Frame)

Program	Typical Time Frame	Maximum Time Frame
COB (1-year)	1 year to graduate	3 years to graduate
COB (2-year)	2 years to graduate	3 years to graduate

Students in both the one-year and two-year track are expected to complete their program in three years before ineligibility for financial aid becomes effective. Students who do not complete their degree in three academic years will not be eligible for financial aid without an approved financial aid appeal.

SAP Review (COB)

SAP will be reviewed *at the end of each academic term* for COB. The Financial Aid Office will review all students enrolled for the term to determine a student's SAP status, this is regardless of financial aid received.

Students will be notified by email if they fail to meet the minimum standards outlined above, this email communication will include an explanation of the standards evaluated and instructions on how to proceed.

SAP Warning (COB)

SAP is determined at the end of each academic term to ensure if a student is making satisfactory academic progress toward their COB degree. If it is determined that a student has not met SAP requirements at the end of the term, the student will be placed on financial aid warning during their next period of enrollment.

Students on warning have one additional academic term in order to resolve the deficiency and meet the minimum requirements.

Appeal Process (COB)

Students will be notified by email from the Financial Aid Office if an appeal needs to be submitted to continue receiving federal aid at KCU. Students will be asked to submit an appeal form to the Financial Aid Office. The financial aid form will require the student to complete the information listed below:

1. A written statement documenting the reasons for failure to meet the standards of academic progress for financial aid eligibility. The statement should be concise but long enough to address the students mitigating circumstances. There is no school defined length. Examples can be serious illness of student or family member, death of relative or disruptive personal issue.
2. A written statement explaining what has changed in the student's situation that would allow the student to bring his/her academic progress up to the satisfactory standards.
3. Documentation supporting his/her regarding the information on the appeal if requested.
4. A written academic plan or letter from StARC.

If the appeal is granted, and it is determined that the student should be able to meet SAP standards by the end of the subsequent payment period, they will be placed on financial aid probation with an academic plan. A student's progress must be reviewed at the end of their probationary period.

Academic Plan (COB)

If a student fails to make SAP, the StARC will work with the student to create a written academic plan that is designed to help the student improve his/her performance. Once established, the plan must be submitted by the student to the Financial Aid Office as component of the SAP appeal.

Financial Aid Probation (COB)

Financial aid probation is federally defined as the status assigned to a student who fails to make SAP but who successfully has appealed the school's determination that he/she is not meeting the school's academic progress standards. The probation is generally limited to one term. In some instances, it may be mathematically impossible for a student who is on financial aid probation and in compliance with all requirements of his/her academic plan to achieve the minimum SAP standards by the conclusion of one term. The mathematical impossibility may be related to GPA, pace, or both. If at the end of a probationary period, the student has met all requirements of the academic plan but is still not meeting the minimum SAP standards, he/she will be eligible to receive aid for the next term. Progress will be reviewed at the end of each subsequent term until the student has either achieved SAP or violated the terms of the academic plan and become ineligible to receive additional federal student aid at KCU. A student's progress will be reviewed at the end of each payment period as is required of a student on probation status. If the student is meeting the requirements of their probation with an academic plan, the student is eligible to receive financial aid funds as long as student continues to meet those requirements. Students must appeal to change their plan.

Without Approved Appeal (COB)

Students who are not making satisfactory academic progress and do not submit an appeal or have their appeal request denied, may regain eligibility only by taking action that brings them into compliance with KCU's satisfactory progress standards. Any exceptions to this policy will be made on an individual basis and in compliance with federal, state and local regulations governing financial aid.

Borrowing Considerations & Default

Students must carefully consider the repayment implications of loan programs and avoid excessive borrowing. Default of a student loan is failure to repay the loan according to the terms agreed to in the promissory note. Default may result from failure to submit requests for deferment on time. If a student defaults, the University, the organization that holds the loan, the state and the federal government can all take action to recover the money. The federal government and the loan agencies may deny a school's participation in the student loan programs if the school's default rate is too high. The University will withhold the transcript of any

student who is in arrears or in default under any loan or loan program where such arrearage or default adversely affects the University in any way.

Financial Aid Fraud Misreporting/ Misrepresentation

Any student found to have misreported information and/or altered documentation to increase his/her student aid eligibility or to fraudulently obtain federal funds may face any or all of the following disciplinary action(s):

- Subject to the Student Conduct Policies;
- As per federal regulation 668.14(g), referral to the Office of the Inspector General of the Department of Education, or, if more appropriate, to a state or local law enforcement agency having jurisdiction to investigate the matter;
- Loss of participation in federal financial aid programs for:
 - The current academic year, or;
 - The remaining years of enrollment.

Evidence of Misrepresentation: In the event the Director of Financial Aid finds evidence of willful misrepresentation and/or fraud, the student will meet with the Director of Financial Aid and the Dean of the COM. At that time, disciplinary action will be discussed with the student.

Code of Conduct for Institutional Financial Aid Professionals

http://www.nasfaa.org/code_of_conduct

The Financial Aid Office is a member of the National Association of Student Financial Aid Administrators (NASFAA). NASFAA developed an ethical set of standards related to a financial aid code of conduct. Institutional members will ensure that:

1. No action will be taken by financial aid staff that is for their personal benefit or could be perceived to be a conflict of interest.
 - a. Employees within the financial aid office will not award aid to themselves or their immediate family members. Staff will reserve this task to an institutionally designated person, to avoid the appearance of a conflict of interest.
 - b. If a preferred lender list is provided, it will be compiled without prejudice and for the sole benefit of the students attending the institution. The information included about lenders and loan terms will be transparent, complete, and accurate. The complete process through which preferred lenders are selected will be fully and publicly disclosed. Borrowers will not be auto-assigned to any particular lender.
 - c. A borrower's choice of a lender will not be denied, impeded, or unnecessarily delayed by the institution, even if that lender is not included on the institution's preferred lender list.
 - d. No amount of cash, gift, or benefit in excess of

a de minimis amount shall be accepted by a financial aid staff member from any financial aid applicant (or his/her family), or from any entity doing business with or seeking to do business with the institution (including service on advisory committees or boards beyond reimbursement for reasonable expenses directly associated with such service).

2. Information provided by the financial aid office is accurate, unbiased, and does not reflect preference arising from actual or potential personal gain.
3. Institutional award notifications and/or other institutionally provided materials shall include the following:
 - a. A breakdown of individual components of the institution's Cost of Attendance, designating all potential billable charges.
 - b. Clear identification of each award, indicating type of aid, i.e. gift aid (grant, scholarship), work, or loan.
 - c. Standard terminology and definitions, using NASFAA's glossary of award letter terms.
 - d. Renewal requirements for each award.
4. All required consumer information is displayed in a prominent location on the institutional web site(s) and in any printed materials, easily identified and found, and labeled as "Consumer Information."
5. Financial aid professionals will disclose to their institution any involvement, interest in, or potential conflict of interest with any entity with which the institution has a business relationship.

Statement of Ethical Principles

http://www.nasfaa.org/Statement_of_Ethical_Principles

NASFAA members are required to exemplify the highest level of ethical behavior and demonstrate the highest level of professionalism. Financial aid administrators shall:

- Advocate for students
 - Remain aware of issues affecting students and continually advocate for their interests at the institutional, state and federal levels.
 - Support federal, state and institutional efforts to encourage students, as early as the elementary grades, to aspire to and plan for education beyond high school.
- Manifest the highest level of integrity
 - Commit to the highest level of ethical behavior and refrain from conflict of interest or the perception thereof.
 - Deal with others honestly and fairly, abiding by our commitments and always acting in a manner that merits the trust and confidence others have placed in us.
 - Protect the privacy of individual student financial records.
 - Promote the free expression of ideas and opinions, and foster respect for diverse

- viewpoints within the profession.
- Support student access and success
 - Commit to removing financial barriers for those who want to pursue postsecondary learning and support each student admitted to our institution.
 - Without charge, assist students in applying for financial aid funds.
 - Provide services and apply principles that do not discriminate on the basis of race, gender, ethnicity, sexual orientation, religion, disability, age, or economic status.
 - Understand the need for financial education and commit to educate students and families on how to responsibly manage expenses and debt.
 - Comply with federal and state laws
 - Adhere to all applicable laws and regulations governing federal, state, and institutional financial aid programs.
 - Actively participate in ongoing professional development and continuing education programs to ensure ample understanding of statutes, regulations, and best practices governing the financial aid programs.
 - Encourage colleagues to participate in the financial aid professional associations available to them at the state, regional, or national level and offer assistance to other aid professionals as needed.
 - Strive for transparency and clarity
 - Provide our students and parents with the information they need to make good decisions about attending and paying for college.
 - Educate students and families through quality information that is consumer-tested when possible. This includes (but is not limited to) transparency and full disclosure on award notices.
 - Ensure equity by applying all need-analysis formulas consistently across the institution's full population of student financial aid applicants.
 - Inform institutions, students, and parents of any changes in financial aid programs that could affect their student aid eligibility.
 - Protect the privacy of financial aid applicants
 - Ensure that student and parent private information provided to the financial aid office by financial aid applicants is protected in accordance with all state and federal statutes and regulations, including FERPA and the Higher Education Act, Section 483(a)(3)(E) (20 U.S.C. 1090).
 - Protect the information on the FAFSA from inappropriate use by ensuring that this information is only used for the application, award, and administration of aid awarded under Title IV of the Higher Education Act, state aid, or aid awarded by eligible institutions.

Campus Life & General Information

Academic Support and Mentoring Services

Upon matriculation, advising and support are available to all students. Academic skills, including time management, study techniques and test-taking skills, may need to be improved for students to succeed. Resources range from assigned faculty advisors, to the Office of Student Affairs, to psychologists, to assistant and associate deans as well as deans of the University. In addition to faculty advisors, all entering COM students are assigned a big brother/ big sister, who serves as the mentor throughout their first year at the University. Learning specialists are available to offer academic skills workshops in addition to providing individual academic support through the Offices of Learning Enhancement, located on the third floor of Smith Hall.

Learning Enhancement Program

Select students are invited to participate in the Learning Enhancement Program prior to matriculating to COM. This program offers students a head start in medical school by providing a variety of information on learning styles, study techniques and test-taking skills. The program is free.

Tutoring Program

Tutoring services are available at no cost to all KCU students. All KCU students are encouraged to receive tutoring.

Counseling and Support Services

The University understands the intense environment and extra stress which graduate and medical students experience. Because it is important for students to be emotionally healthy, students are encouraged to utilize the counseling services that are available to them. The University has two licensed counselors on campus. Students are encouraged to set up appointments by emailing the respective counselor they would like to see.

The two licensed psychologists provide immediate support for students on-campus through psychotherapy, proactive support programs to assist students with the extra stresses associated with medical school and graduate study, and provide additional information and support through the University's orientation program. They can also assist students who are dealing with any kind of substance abuse/ addiction issue. The University's Counseling Services are located in Smith Hall.

For students wishing to be seen by a therapist or psychiatrist off-campus, the University offers its New Directions program, a free and confidential counseling service available to all students and their families. This program offers a limited number of financial, legal or emotional counseling services. Students interested in this University-paid service may contact the Office of Student Affairs for information or New Directions directly at <http://www.ndbh.com> or at 913.982.8398. All counseling referrals and sessions are confidential and are not recorded in the student's file.

Academic Dishonesty

The University holds its students to the highest standards of intellectual and professional integrity. Therefore, the attempt of any student to pass any examination by improper means, present work which the student has not performed, or aid and abet a student in any dishonest act, will result in disciplinary action, which may include immediate dismissal. Any student witnessing or observing a perceived violation of academic integrity is required to report it as outlined in the KCU Student Handbook under Student Conduct Policies. Students failing to report an observed violation will also be subject to disciplinary action up to, and including, immediate dismissal.

Conduct, Responsibility and Discipline

The University requires all students to be responsible individuals who possess the highest standards of integrity, honesty and personal conduct. These traits are prerequisites to independent learning, professional development, the successful performance of academic and clinical assignments and the conduct of one's personal life. Accordingly, students are required to adhere to a standard of behavior consistent with the University's high standards at all times off and on campus.

Compliance with institutional rules and regulations, in addition to city, state and federal laws, is required of all students. Additional details regarding student conduct policies and the AOA Code of Ethics are found within the KCU Student Handbook.

KCU Campus Store

The KCU Campus Store, located in the Student Activities Center, primarily sells food and beverage items, similar to a convenience store. The Campus Store also stocks laboratory and clinical coats, school supplies, university clothing and gifts.

The purchase of books is entirely done online through an online book seller. The link to the book seller is <http://kcumb.textbookx.com/> and it can be found on the University website. Medical equipment is purchased through the Campus Store at the beginning of the school year. The store will only stock a few of these equipment items after the start of the school year.

Any problems with the online book-ordering or medical equipment problems should be reported to the Campus Store. The Campus Store acts as the liaison with the online book seller and medical equipment company.

The Campus Store's normal business hours are:

Monday - Friday	7:30 a.m.-9:30 p.m.
Saturday - Sunday	10 a.m.-8 p.m.

D'Angelo Library and Informatics Center

The D'Angelo Library's mission is to serve the informational needs of KCU students, residents, faculty, and staff. The D'Angelo Library's hours of operation are:

Monday - Friday	7 a.m.-11:30 p.m.
Saturday - Sunday	9 a.m.-11:30 p.m.

Special hours, such as holiday hours, are posted in advance on the digital signage in the D'Angelo Library and posted on the KCU Intranet. Library staff members are available to assist customers at all times for their research, reference and educational needs.

The D'Angelo Library offers wireless computer access, study tables with plug-in internet access, a computer station/instructional center, computer stations in study carrels, five individual and group study rooms with white boards and large-screen television monitors, a lounge area, two full skeletons, a Special Collections room housing historical items, osteopathic historical materials, memorabilia, and yearbooks.

Faculty and student publications are displayed and available on the first floor, as well as many historical displays. The second floor houses the Library's main collection of medical and bioscience materials, as well as ample study space for students. The Access Services area affords access to current textbooks on reserve, as well as Interlibrary Loan. The accessibility of materials and information is the prime consideration in the circulation policies of the D'Angelo Library. Detailed information regarding these policies is posted on the D'Angelo Library website (<http://www.kcumb.edu/academics/dangelo-library/>).

Information common areas on the first and second floors contain catalog kiosks. The first floor also allows access to a scanner, fax, photocopier, and two WEPA print stations.

The Reference Service office is located on the second floor. Reference Service offers assistance with research, teaching, and other informational needs by performing various searches and locating specific materials. This service provides literature search capability with access to both bibliographic and full text databases relating to medicine and the biosciences. Requests are accepted by phone, email, the Library Chat Service (online), mail, or in person.

The D'Angelo Library offers a wide variety of classes designed to assist users in developing skills in research, information management and literacy, and the knowledge

necessary to access specific resources available in the Library and through the website. These classes are open to KCU students, faculty and staff without charge.

Interlibrary Loan Service augments the holdings of the D'Angelo Library by providing access to other national and international collections. This service is available to KCU students, faculty and staff without charge. Requests are accepted by phone, email, the Library Chat Service (online), mail, or in person.

A variety of medical, biological, scientific, educational, and informational online databases are available through the website.

A few of the available database resources include:

- Access Medicine
- Access Pediatrics
- Access Surgery
- Bates Visual Guide
- Clinical Key
- Clinical Pharmacology
- Health Library: Osteopathic Collection
- Human Anatomy
- McGraw Hill E-book First Aid Series
- Natural Medicines
- Ovid
- USMLE Easy
- UpToDate
- VisualDX

The website also offers:

- The online catalog
- Direct links to a variety of services (such as interlibrary loan, board review resources and reference)
- Customer renewal option through the online catalog
- Required textbook listing (some with direct e-book links)
- E-book and E-journal links
- Apps for mobile devices
- Digital archives
- Access to many other helpful resources

New resources are reviewed and evaluated on a consistent basis in order to provide KCU students, faculty, and staff access to the most relevant and current information available.

The online Library Chat Service allows for immediate response to inquiries from students, faculty, and staff by the D'Angelo Library staff.

The D'Angelo Library's InfoGuides webpage is where students can find research assistance, various subject guides, and other useful resources compiled by the Library team.

Non-Discrimination/ Harassment Policy

KCU is committed to providing an academic and employment environment in which students and employees are treated with courtesy, respect and dignity. It is the policy of the University that no student shall, because of race, ethnicity, national origin, color, creed, religion, age, disability, veteran or military status, sex, gender, gender identity, sexual orientation or any other characteristic protected by law, be excluded from participation in, be denied the benefit of or be subjected to discrimination in any program sponsored by the University. Inquiries regarding compliance must be directed to KCU's chief compliance officer, who is the coordinator of the University's non-discrimination and Title IX program. Please refer to the KCU Student Handbook for additional details.

Publications/Media Relations

The printing or distribution of any publication, or the use of the University name, logo or seal by students, must have the prior approval from either the Vice Provost or President.

Students are required to refer media inquiries to either the Vice Provost or President, thereby ensuring that timely and accurate information, delivered in a professionally accepted format, will reach the local and national media to help KCU communicate with its various constituencies.

Regularly scheduled publications include the KCU Magazine, the alumni magazine; the University Catalog; and the KCU Student Handbook.

Research

KCU encourages student research engagement while enrolled and attending classes at the University. The Office of Research and Sponsored Programs (ORSP) serves to assist students in identifying and securing research opportunities both on and off campus. In addition, oversight of all research activities occurs in the ORSP, including compliance and training. Students must apply to the ORSP and be approved to participate in all research opportunities. Approval to participate in educational tracks occurs through the Office of the Dean for the COM and COB.

The following opportunities are available to students to gain research experience while on campus:

- Faculty directed student volunteer research opportunities both on and off campus
- One-year Master's in Anatomy
- One-year Fellowship in Osteopathic Manipulative Medicine
- Summer Student Research Fellowship for graduating COB students accepted into the KCU COM for the fall semester
- Support for scholarly activities

The University sponsors the following events for the purpose of building student research capacity:

- Annual Research Symposium
- Science Friday Talks
- University Lecture Series

Please refer to the University website for additional details - <http://www.kcumb.edu/research/>.

Security and Safety on Campus

KCU is located in a metropolitan area and has instituted certain security measures for student safety, including the utilization of a card access system for all building entrances. Students are encouraged to remain alert and cautious when on campus, keep personal items out of sight and keep their vehicles locked. To request a security escort to your car or to reach a patrol agent, call Security at ext. 7911 or 816.654.7911.

KCU campus security operates 24 hours a day, seven days a week. Security officers and Kansas City Police Department officers patrol both the interior and exterior of campus to prevent and deter crime. They are readily available to help in emergencies and to render assistance in motorist assists and escorts. The department also enforces parking regulations and serves as the repository for lost and found items.

Automated External Defibrillators (AED) are strategically placed on campus and include mobile devices carried by security officers. The Safety and Emergency Management Department is charged with maintenance and care of the defibrillators.

AED Locations

1. **Academic Center:** First and second floor, northeast wall by the exit
2. **Administration Building:** First floor by the men's restroom and third floor by the men's restroom
3. **Annex Building:** Wall mount by east entrance/exit in between classrooms A & B
4. **Butterworth Alumni Center:** First floor inside the entrance/exit on west wall
5. **D' Angelo Library:** First floor, after going through main entrance
6. **Dybedal Research Center:** First floor entrance and second floor by the restrooms
7. **Facilities:** Shop area
8. **Kesselheim Center for Clinical Competence:** Entrance
9. **Powerhouse:** Center pillar
10. **Smith Hall:** First floor and third floor east wing by elevator
11. **Strickland Education Pavilion:** First floor atrium area by south wall by the east exit, third floor by Wing 320, and fourth floor atrium area
12. **Student Activity Center:** First floor North hallway by

campus store

13. Safety Patrol Vehicles: Four vehicles are equipped with AED's

First Aid Kit Locations

1. Safety and Emergency Management Office
2. Security patrol vehicles (4)

Code Blue Emergency Poles and Call Boxes

Emergency blue-light "Code Blue" poles and boxes are available in all student parking lots and throughout the entire campus area. Student parking lot A is located at the corner of Missouri & Highland Avenue, and lot G is at the corner of Independence & Highland Avenues. These two-way call boxes allow individuals to speak directly to the on-duty emergency campus dispatcher in the event of an emergency.

Fire Exits and Extinguishers

Fire exits and fire extinguishers are located throughout all buildings. If evacuation of a building becomes necessary, please use the stairways. Elevators should not be used under any circumstances. Tampering with fire alarms or fire prevention equipment is forbidden and may result in dismissal.

Emergency Plan

Procedures for emergencies are detailed on both the KCU Intranet and the University's external website.

KCU has partnered with Rave Mobile Safety to provide an emergency alert system capable of delivering messages to University emails, personal emails and/or cell phones. In the event of an emergency on or near campus that may endanger the University population, KCU Safety and Emergency Management will send communication through one or more of the mechanisms identified above.

All emergencies on the KCU campus should be reported immediately by dialing 816.654.7911 for Safety and Emergency Management. Upon notification of an emergency, the security officer on duty will respond to the scene to confirm that emergency or disaster conditions exist. If needed, a follow-up call will be made to emergency responders via 911 to assure the response and give directions needed. The security officer will, as soon as practical, contact the manager of Safety and Emergency Management or the next highest-ranking Safety and Emergency Management official.

Emergency Communications

KCU provides two methods of communications to security and emergency personnel. First, the Safety and Emergency Management campus dispatcher may be reached from any phone on campus by dialing 7911 and off-campus or by cell phone at 816.654.7911. Students are asked to pre-program or "speed dial" this number into cell phones for quick dialing.

Second, Code Blue emergency poles and boxes have been

installed outdoors in strategic locations around campus. A simple push of the emergency button connects the caller with the dispatcher and alerts the dispatcher that the call is an emergency.

Timely Warnings & Crime Alerts

Timely warnings are issued whenever there is an ongoing threat of crime or danger to the University community on and around campus. If circumstances warrant, timely warnings/crime alerts are prepared and sent throughout the University via Rave Mobile Safety mass texting notifications, campus wide emails, and posted notices in campus buildings.

Security Escorts

The Safety and Emergency Management department provides an on-campus escort service for students all year round, 24 hours a day, seven days a week. Patrol officers will walk escort requests to buildings and/or vehicles parked in and around University lots. Those interested in an escort should contact the Safety Dispatch desk at 816.654.7911 ext.7911 on campus.

Annual Security Report

In compliance with regulations of the Department of Education, KCU's Safety and Emergency Management department publishes an Annual Security Report and distributes the document to all students, faculty, and staff. The Campus Security Act requires all colleges and universities to:

- Publish an annual report by Oct. 1 that contains three years of campus crime statistics and certain campus security policy statements;
- Disclose crime statistics for the campus, public areas immediately adjacent to or running through the campus, and certain non-campus facilities and remote classrooms;
- The statistics must be gathered from campus security, local law enforcement and other University officials who have "significant responsibility for students and campus activities;"
- Provide "timely warning" notices of those crimes that have occurred and pose an ongoing "threat to students and employees;" and
- Disclose in a public crime log "any crime that occurred on campus or within the patrol jurisdiction of University security and is reported to University security."

Prospective students, current students, faculty, and staff can receive a paper copy of the report upon request to KCU Safety and Emergency Management. The report can also be accessed online at <http://www.kcumb.edu/campus-life/campus-safety/security-report/>.

Smoking/Tobacco Use

KCU is a tobacco-free campus.

Student Complaint Policy

KCU is committed to treating all members of the University community (administrators, faculty, staff, students, applicants for employment, third-party contractors, all other persons that participate in the University's educational programs and activities, including third-party visitors on campus) fairly with regard to their personal and professional concerns. The student grievance policy ensures that concerns are promptly dealt with and resolutions reached in a fair and just manner. The University's grievance procedure enables students to bring complaints and problems to the attention of the University's administration. KCU forbids any retaliatory action against students who present concerns and complaints in good faith.

Please refer to the KCU Student Handbook for more information.

College of Osteopathic Medicine

Mission

The College of Osteopathic Medicine (COM) prepares students to become highly competent, caring and compassionate osteopathic physicians who demonstrate the highest level of professionalism, ethics and sensitivity to the diverse personal and cultural contexts in which care is delivered. We are committed to the service of humanity and the advancement of knowledge through a collaborative environment that provides distinctive osteopathic clinical training and fosters excellence in education, research and scholarly activity, and lifelong learning.

Vision

The College of Osteopathic Medicine is recognized as a leader in osteopathic medical education and health care by exceeding standards of academic and clinical achievement.

Professionalism

Core Values

KCU's core values include integrity, compassion, excellence, collaboration, intellectual curiosity, innovation and heritage. With emphasis on service, the University believes in graduating students who can provide exemplary and professional care to their patients. The primary goal of the program is to teach, evaluate and reinforce professional behavior.

KCU students are expected to be responsible individuals who possess the highest standards of integrity, honesty and personal conduct. Accordingly, students are expected to comply with institutional rules and to uphold and carry out the high standards of the osteopathic medical profession.

KCU has an active Quality Enhancement program. The quality enhancement process engages all stakeholders in the assessment and improvement of the educational processes that support the delivery of University curricula. Specially, assessment focuses on the following:

- Mission and Planning
- Governance
- Student Outcomes
- Curricula
- Leadership, Community Service and Social Responsibility
- Support Services
- Resource Allocation and Program Costs
- Faculty and Staff

- Contributions to other programs
- Student, Stakeholder and Market Focus
- Research and Scholarship

Students are an integral part of the University's Quality Enhancement process, as such students are occasionally asked to complete surveys, participate in focus groups or serve on committees responsible for academic quality improvement. In fact, students are encouraged to participate and participation is considered to be an important component of professionalism.

Students can be assured that their participation in all quality enhancement processes is confidential; all information utilized is strictly guarded to ensure anonymity.

Osteopathic Principles

The osteopathic philosophy embraces the idea of the unity of structure (anatomy) and function (physiology). There are four main principles of osteopathic medicine:

1. The body is a unit, and the person represents a combination of body, mind and spirit.
2. The body is capable of self-regulation, self-healing and health maintenance.
3. Structure and function are reciprocally interrelated.
4. Rational treatment is based on an understanding of these principles: body unity, self-regulation, and the interrelationship of structure and function.

KCU's COM curriculum prepares students for graduate medical education. Graduates are required to meet the following osteopathic core competencies:

Competency 1: Osteopathic Philosophy and Osteopathic Manipulative Medicine

Graduates are expected to demonstrate and apply knowledge of accepted standards in Osteopathic Manipulative Treatment (OMT). The education goal is to train a skilled and competent osteopathic practitioner who remains dedicated to life-long learning and to practice habits consistent with osteopathic principles and practices.

Competency 2: Medical Knowledge

Graduates are expected to demonstrate and apply knowledge of accepted standards of clinical medicine in their respective specialty area, remain current with new developments in medicine, and participate in life-long learning activities, including research.

Competency 3: Patient Care

Graduates must demonstrate the ability to effectively treat patients, provide medical care that incorporates osteopathic principles and practices, empathy, awareness of behavioral issues, preventive medicine and health promotion.

Competency 4: Interpersonal and Communication Skills

Graduates are expected to demonstrate interpersonal and communication skills that enable them to

establish and maintain professional relationships with patients, families and other members of healthcare teams.

Competency 5: Professionalism

Graduates are expected to uphold the Osteopathic Oath in the conduct of their professional activities that promote advocacy of patient welfare, adherence to ethical principles, collaboration with health professionals, life-long learning, and sensitivity to diverse patient populations. Graduates should be cognizant of their own physical and mental health in order to effectively care for patients.

Competency 6: Practice-Based Learning and Improvement

Graduates must demonstrate the ability to critically evaluate their methods of clinical practice, integrate evidence-based medicine into patient care, show an understanding of research methods, and improve patient care practices.

Competency 7: Systems-Based Practice

Graduates are expected to demonstrate an understanding of health-care delivery systems, provide effective and qualitative patient care with the system, and practice cost-effective medicine.

COM Curriculum

Doctor of Osteopathic Medicine

General Overview

The curriculum at KCU's COM consists of a minimum of four years of structured training leading to the doctor of osteopathic medicine. The first two years of the curriculum center upon the foundations of basic and clinical medical sciences. Osteopathic principles and philosophy as well as contemporary concepts in medical education are integrated into the curriculum. The last two years of medical education focus on training in clinical settings.

Curriculum Philosophy

The purpose of the curriculum is to advance the mission of the University in preparing its graduates to be highly competent, caring and compassionate osteopathic physicians.

COM has an integrated systems curriculum designed with principles that emphasize life-long learning. The didactic curriculum is transdisciplinary, systems-based and interactive with programmed repetition. The COM curriculum stresses active, adult learning and instills the habit of life-long learning, a fundamental goal at KCU. Life-long learning is recognized as a necessary attribute for a fully competent and successful career in the practice of medicine.

The Year 1 curriculum progresses through all organ systems and stresses normal structure and function. Basic biomedical science disciplines are reviewed in all first-year system courses with an emphasis on normal physiology and anatomy. Clinical relevancy is stressed from the very beginning of Year 1 through the inclusion of clinical integration sessions that highlight the application of salient material.

The Year 2 curriculum consists of Year 1 system courses but with the emphasis on pathology, clinical medicine and pharmacology. Mechanisms of disease processes and clinical patient presentations are stressed so that students may learn to develop a thorough differential diagnosis of disease states. Programmed repetition occurs in Year 2 with a review of all organ system physiology at the beginning of each course. Clinical integration sessions emphasize application of the material throughout the year.

Principles in Clinical Medicine and Osteopathic Skills are two longitudinal courses scheduled concurrent to all systems courses in the first two years of the COM curriculum. These courses emphasize foundational knowledge in clinical medicine and osteopathic manipulation, respectively, while integrating topics relevant to the current system course. Principles of Clinical Medicine and Osteopathic Skills are competency-based courses. The COM curriculum utilizes standardized patient interactions and increasingly sophisticated simulations to assess the clinical competencies and osteopathic skills of students so

they meet the expectations of core clinical rotations and electives in years three and four.

There is an incremental shift over Years 1 and 2 of the COM curriculum of teacher-centered learning to student-centered learning. This solidifies and begins the process intended to stimulate the life-long learning required of a physician. Lectures consist of introductions and are delivered in conjunction with assigned readings and clinical integration sessions, which are focused upon cases. Faculty content experts conduct clinical integration sessions and typically employ interactive technology with full student engagement.

The curricular goal by the end of year two is to engender in our students the general ability to think diagnostically at an appropriate level as a physician-in-training. The expectation is that students bring those capabilities to core clinical rotations and electives in years three and four. The overarching curricular goal is that each graduate is fully prepared to enter residency (GME) and successfully develop the requisite knowledge, skills and attitudes of a fully-trained osteopathic physician.

Teaching Methods

A variety of teaching and learning methods are incorporated during the first two years. These methods include classroom lectures, laboratory exercises, small-group discussions, clinical integration sessions, computer-assisted instruction, designated student assignments, specialized workshops, and the use of standardized patients and human patient simulators.

First-Year College of Osteopathic Medical School Courses

MED 110 – Molecular and Cellular Mechanisms

This is a multidisciplinary course which incorporates aspects of biochemistry, molecular biology, cell biology, and genetics. Topics reviewed within these disciplines include function of cellular elements, cell structure, cellular organelles and macromolecules, DNA/RNA structure and function, protein synthesis, regulation of gene expression, energetics, metabolism, and regulation of cellular activity. These topics are presented via learning sessions using lectures, clinical correlations, medical vignettes, and directed reading. The course objective is to present the mechanisms underlying normal physiology and metabolism thus providing a foundation for understanding disease processes.

5 semester credits

MED 111 – Host Defense Mechanisms

This course introduces basic concepts necessary to understand the normal function of the immune system including the cellular and humoral components included in the system. It provides an overview of the human immune system, including processes which may lead to immunopathogenesis. This course will utilize lectures, directed reading assignments, and clinical integrative case discussions.

4.5 semester credits

MED 112 – Musculoskeletal I

This interdisciplinary course introduces fundamental concepts which enable the student to understand the normal structure and function of the musculoskeletal system as well as the basic science which underlies disorders associated with skeletal muscle, the neuromuscular junction, bone, and joints. This course has an introduction to gross dissection and radiographic anatomy in order to enhance understanding of structure and function. In addition to dissection, this course will utilize lectures, directed reading assignments, and clinical integrative case discussions.

8 semester credits

MED 113 – Cardiopulmonary

This course introduces the basic structure and function of the cardiac and respiratory systems as well as an introduction to normal coagulation and hemostasis. It provides an overview of the function of the cardiorespiratory system as well as the biomedical science underlying disorders of the heart, circulatory and respiratory systems. Topics reviewed include cardiac cycle and sounds, basic ECG, hemodynamics, autonomic control, respiratory cycle, perfusion, ventilation, gas transport, acid/base balance, and control of breathing. This course utilizes lectures, cadaver dissection, radiographic anatomy, directed reading assignments, and interactive class sessions.

7 semester credits

MED 114 – Gastrointestinal I

This is a multidisciplinary course designed to provide knowledge necessary to understand integration of the normal structure and function of the gastrointestinal and hepatobiliary systems. It covers basic principles of digestion, absorption, secretion, and motility as well as an overview of the regulation of mechanical, chemical, neural, and hormonal systems which control digestive processes. The course is structured to include the gross and radiographic anatomy of the primary and accessory organs of digestion. This course utilizes lectures, cadaver dissection, directed reading assignments, and case discussions.

3.5 semester credits

MED 115 – Renal I

The renal course utilizes a multidisciplinary approach to prepare students with a foundational understanding of the normal structure and function of the renal system. This course reviews the basic functional principles of the organs of urine production and excretion including the gross anatomy, histology, and embryology of the kidney and urinary tract. A thorough investigation of the essential physiology of kidney function will include the primary renal processes, urine formation, and renal blood flow. In addition, the renal system's role in ion regulation, acid-base balance, fluid volume, and salt-water balance will be examined along with the regulatory control mechanisms of these functions. An understanding of the renal system will be accomplished through student involvement in lectures, directed student assignments, and relevant interactive clinical correlation sessions.

2.5 semester credits

MED 116 – Endocrine I

This course is designed to introduce the basic anatomy, physiology, histology, and embryology of the major endocrine structures and organs. It also reviews production, secretion, regulation of secretion, and actions of the hormones associated with each structure/organ and its target tissue(s). The course provides a basis for understanding the pathological conditions resulting from endocrine dysfunction. This course utilizes lectures, cadaver dissection, directed reading assignments, and case discussions.

1.5 semester credits

MED 117 – Reproduction and Development I

This course is designed to introduce the basic anatomy, physiology, histology, and embryology of the major reproductive structures and organs of the male and female. It provides an overview of production, secretion, regulation of secretion, and actions of the hormones associated with each structure/organ and its target tissue(s). The course also introduces basic information related to pregnancy, perinatal physiology and development, and contraception. This course utilizes lectures, cadaver dissection, directed reading assignments, and case discussions.

3.5 semester credits

MED 118 – Neuroscience I

This course introduces the anatomy and physiology of the central and peripheral nervous system as a basis of understanding normal function. The study of neuroanatomy and head/neck anatomy is bridged by an introduction of the cranial nerves. Concepts in this course are presented utilizing clinical-based lectures, reading assignments, cadaver dissection, and reinforced by integrative class sessions which relate basic neuroanatomical knowledge with the clinical symptoms presented by a neurological deficit.

7.5 semester credits

MED 119 – Mechanisms of Disease I

This intensive course is designed to impart and stimulate through lectures and active, adult learning strategies, acquisition of introductory knowledge and understanding/application of the basic tenets of human pathophysiology. Pathology is the study of disease and the basic science of clinical medicine. As such it is foundational to the understanding and development of differential diagnosis "thinking" and the rationale for many of the diagnostic studies and therapeutic modalities employed in clinical medicine. This course, along with Mechanisms of Disease II, are considered bridging learning endeavors to aid students in preparing for Year II of the KCU curriculum.

1.5 semester credits

MED 120 – Mechanisms of Disease II

This course builds on the information introduced in MED 119 and employs lectures, clinical interactive sessions and active, adult learning strategies along with introductory knowledge of the basic tenets of human pathophysiology to further explore infectious causes of pathology and disease. This course, along with Mechanisms of Disease I, are

considered bridging learning endeavors to aid students in preparing for Year II of the KCU curriculum.

2 semester credits

MED 121/122 – Medical Informatics and Information Literacy

A series of two competency-based courses that serve as an introduction to information literacy and evidence-based practice. This course is designed to enable students to access, assess, and present medical information. Course objectives are accomplished through designated student assignments, lectures, and small group sessions which culminate in the development and presentation of a clinical case in student-led grand rounds.

1 semester credit

MED 123 – Bioethics I

This course is designed to enable students to apply ethical principles to medical practice, healthcare policy, and biomedical research. Students learn to recognize ethical issues, engage in moral reasoning, and make decisions which respect the rights of patients while fulfilling the obligations of physicians. Course objectives are accomplished through designated student assignments, lectures, and written assignments.

1 semester credit

MED 125 – Osteopathic Skills I

This course is designed to provide basic information related to diagnosis and treatment using current anatomic, biomechanical, and functional osteopathic principles and practice which allow the integrative use of these treatments into patient care. Additional topics reviewed include the history and philosophy of osteopathic medicine, professional communication, examination skills, and medical record documentation. The course is structured to deliver content via lectures and competency-based laboratory experiences and skills demonstrations.

5 semester credits

MED 126 – Osteopathic Skills II

This course builds on basic concepts introduced in MED 125 and is designed to provide more advanced information related to the integrative use of osteopathic principles and practices in patient care. Emphasis is on more advanced application of osteopathic manipulative medicine diagnostic skills and treatments. The course is structured to deliver content via lectures and competency-based laboratory experiences and skills demonstrations.

3 semester credits

MED 130 – Principles of Clinical Medicine I

This course is coordinated with the systems courses and is designed to introduce skills required to communicate with patients and to complete a comprehensive history and physical exam with accurate and adequate documentation of the encounter. Additionally, the course seeks to develop active clinical thinking/problem solving skills along with demonstration of competency in the clinical application of basic medical procedures. Course content is delivered via lectures, human patient simulation sessions, standardized

patient encounters, and competency-based laboratory experiences and skills demonstrations culminating in clinical skills assessments.

4 semester credits

MED 131 – Principles of Clinical Medicine II

This course is a continuation of MED 130 and is coordinated with the systems courses. It is designed to introduce skills required to communicate with patients and to complete a comprehensive history and physical exam with accurate and adequate documentation of the encounter. Additionally, the course seeks to develop active clinical thinking/problem solving skills along with demonstration of competency in the clinical application of basic medical procedures with an introduction to patient presentation and admission orders. Course content is delivered via lectures, human patient simulation sessions, standardized patient encounters, and competency-based laboratory experiences and skills demonstrations culminating in clinical skills assessments.

3 semester credits

Second-Year College of Osteopathic Medical School Courses

ACLS Advanced Cardiac Life Support

Certification is required prior to clinical clerkship participation and maintained throughout clinical training. All students must complete KCU's course.

Non-credit, required.

BCLS Basic Life Support

Certification is required to advance to third year of studies. All students must take the KCU offered course. Note: Students may not progress until all required elements have been completed.

Non-credit, required.

MED 215 – Renal II

The Renal II course focuses on the pathophysiology and pathologic entities of the renal system. Broad topics to be emphasized include the wide spectrum of physiologic functions of the human kidney, pathologic renal entities (e.g., glomerulopathy, glomerulonephritis, tubulointerstitial disorders, infections, toxic and ischemic insults, vascular disease and neoplasms), drugs used in the treatment of hypertension, and clinical aspects of the above-mentioned disorders. Key aspects of clinical laboratory test ordering and data utilization in the diagnosis and monitoring of kidney and urinary tract disease are discussed.

5 semester credits

MED 216 – Endocrine II

The Endocrine II course will review the basic principles of endocrine hormone signaling, storage, secretion and action. Abnormalities in normal endocrine physiology will be discussed through pathophysiologic correlations and clinical discussions. The course will emphasize the hypothalamic/pituitary complex, thyroid, parathyroid, adrenal, and endocrine functions of the pancreas. Students are expected to be familiar with the hypofunctioning or hyperfunctioning

of key endocrine glands, the structure, secretion and action of endocrine hormones (peptide, steroid and thyroid hormones), and the major clinical endocrine disorders related thereto. Pharmacology as it relates to hormone secretion and action will be discussed. Emphasis will be placed on understanding the pathophysiology of each endocrine gland with the intent to use the general principles of endocrine pathophysiology and pharmacology to effectively diagnose, manage and care for patients with endocrine disorders.

3.0 semester credits

MED 217 – Reproduction II

This course introduces the care of the pregnant woman, based on principles learned previously. The course will focus on the process of the pregnant state, normal labor and delivery, and management of common obstetrical and gynecological issues, with an emphasis on interpretation of clinical cases.

3.5 semester credits

MED 222 – Musculoskeletal II

The Musculoskeletal II course introduces second-year students to the pathophysiology, the signs and symptoms, the diagnosis, and the treatment of commonly occurring musculoskeletal diseases, limb, and joint pain; as well as less common, but serious, musculoskeletal disorders with neoplastic, infectious or inherited etiologies. The core scientific and medical disciplines in the Musculoskeletal II course are: pathology, internal medicine (primary care and sub-specialties), and pharmacology. This course complements the Musculoskeletal 1 section, which was rich in anatomy and physiology, and includes reading assignments, lectures, case-based clinical presentations and clinical simulations.

4.0 semester credits

MED 223 – Bioethics II

This course is designed to enable students to apply ethical principles to medical practice, healthcare policy, and biomedical research. Students learn to recognize ethical issues, engage in moral reasoning, and make decisions which respect the rights of patients while fulfilling the obligations of physicians. Course objectives are accomplished through designated student assignments, lectures, and written assignments.

1.0 semester credit

MED 224 – Gastrointestinal II

The course covers the gastrointestinal system, including the hepatobiliary and pancreatic systems. After a brief review of normal physiologic principles and processes, the initial two weeks are devoted to a thorough study of gastrointestinal pathology. Clinicopathological correlations are emphasized. The remainder of the course is devoted to the application of the integrated pathophysiological principles in clinical settings under the guidance of appropriate clinical faculty. Material that has been previously covered is integrated into clinical application and used to build the clinical framework needed to be a competent osteopathic physician. Emphasis is placed on understanding the pathophysiology

and the ability to correlate and use basic principles in the management of gastrointestinal disorders. Clinical discussions and lectures focus on disease states the students will encounter throughout their careers.

4 semester credits

MED 225 – Osteopathic Skills III

The third semester of osteopathic skills is designed to teach students new manipulative medicine treatment modalities; built on the foundation from year 1 by integrating examination skills with the use of osteopathic principles, and OMT treatment practices into patient care.

2.5 semester credits

MED 226 – Osteopathic Skills IV

The fourth semester of osteopathic skills is designed to teach students new manipulative medicine treatment modalities; built on the foundation from year 1 by integrating examination skills with the use of osteopathic principles, and OMT treatment practices into patient care.

2.0 semester credits

MED 228 – Neuroscience II

The first week of the Neuroscience II course will focus on the general principles of pharmacology (i.e., pharmacodynamics, pharmacokinetics, drug biotransformation, and clinical trials). The remainder of the Neuroscience II course is designed to use the neuroanatomy and neurophysiology basic science information presented in Year 1 to underpin a comprehensive overview of neuropathology, including both non-neoplastic and neoplastic diseases. Neuroanatomy, neurophysiology, and clinical neurology applications are integrated to build the clinical framework necessary to succeed during year 3 and year 4 clinical rotations.

7 semester credits

MED 229 – Hematology and Lymph

This course is designed to provide the student with a comprehensive overview of hematology and hematopathology. All blood cell lines will be discussed in the context of the pathophysiology and pathology of both non-neoplastic and neoplastic diseases. This material will be integrated into clinical applications and used to build the clinical framework needed to successfully synthesize and integrate course content. Topics include hematopoiesis, red cell disorders and the clinical work-up of anemia, non-neoplastic and neoplastic white cell disorders, and bleeding and hypercoagulable disorders. In addition, students will be exposed to concepts related to solid organs of the hematologic/lymphatic system (spleen and thymus). Pertinent pharmacology to the treatment of anemia and neoplastic diseases will be presented and common diagnostic tests and their interpretation will be integrated throughout the course.

4 semester credits

MED 230 – Principles of Clinical Medicine III

PCM3 is the third installment of a 2-year longitudinal course that addresses the foundations of clinical medicine. Students will learn how to perform a history and physical

exam, complete appropriate medical documentation, effectively communicate with patients, perform various clinically-related skills and integrate the use of osteopathic principles and practices into patient care. The overall goal of the 2-year Principles in Clinical Medicine curriculum is for students to demonstrate competence in the above-mentioned areas prior to starting third-year clinical clerkships.

3.5 semester credits

MED 231 - Principles of Clinical Medicine IV

PCM4 is the fourth and final installment of a 2-year longitudinal course that addresses the foundations of clinical medicine. Students will learn how to perform a history and physical exam, complete appropriate medical documentation, effectively communicate with patients, perform various clinically-related skills and integrate the use of osteopathic principles and practices into patient care. The overall goal of the 2-year Principles in Clinical Medicine curriculum is for students to demonstrate competence in the above-mentioned areas prior to starting third-year clinical clerkships.

3 semester credits

MED 233 – Cardiovascular Medicine

Cardiovascular Medicine is structured with the goal of enabling the student to obtain the requisite knowledge necessary to understand the pathology, physiology, pharmacology and clinical medicine of the cardiovascular system. Upon completion of the course, the student will be able to recognize presenting signs and symptoms of various C-V diseases and develop appropriate differential diagnosis and treatment. Special emphasis on interpretation of ECG's will be presented. The content of this course will be presented via lecture, interactive lectures, reading assignments, case presentations, and patient presentations.

5 semester credits

MED 234 – Respiratory Medicine

This course will concentrate on the pathology, pathophysiology, diagnosis and treatment of major disorders of the lungs, and the relationship multisystem diseases have with the pulmonary system. Student activities will concentrate on the fundamental obstructive, restrictive, and infectious diseases. Pulmonary emergencies and primary and secondary malignancies will be presented, with an emphasis on diagnostic techniques and treatment methodologies. Broad classes of antibiotics, antivirals, and antifungals will be introduced and discussed as they relate to respiratory medicine.

4.5 semester credits

MED 235 – Behavioral Science and Psychiatry

The Behavioral Science and Psychiatry System is structured to expose students to psychiatric and behavioral medical issues commonly seen in practice. The clinical component of the course will focus on mental health disorders, such as depression, bipolar disorder, mania, psychosis, anxiety, and drug abuse. Symptoms of these disorders will be explored in detail with a heavy emphasis on the available pharmacologic treatments.

3 semester credits

MED 236 – Bioethics III

This course is a continuation of Bioethics II (MED 223), which focuses on professionalism, clinical ethics, research ethics, and public policy.

1.0 semester credit

MED 250 – Comprehensive Systems Integration

This is a required, structured overview course designed to aid the student preparing for the COMLEX I Board Examination. Self-assessment and continuous review of key concepts in biomedical disciplines by means of an online question bank is a key component of the course. The course culminates with a comprehensive lecture series and practice exams conducted under conditions similar to the actual COMLEX level 1 Board Exam.

8.5 semester credits

First and Second Year Elective Courses

Elective courses are designed to accommodate the semester format of the University and are offered at various times.

ANAT 199 – Anatomy Research (E)

This elective is intended to provide a framework within which students may engage in anatomy research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the individualized plan of study and required time on task. May be repeated for credit up to a maximum of 20 credits.

2-5 semester credits

ANAT 208 – Anatomical Dissection (E)

This course will involve lab-oriented clinical anatomy dissection of a cadaver. Students will work in teams and present the clinical anatomy of the specific area. Specific areas of clinical anatomy may include abdomen, thorax, hand and forearm, head and neck and lower limbs, depending on the cadaver.

2 semester credits

ANAT 299 – Anatomy Research (E)

This elective is intended to provide a framework within which students may engage in anatomy research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the individualized plan of study and required time on task. May be repeated for credit up to a maximum of 20 credits.

2-5 semester credits

IDIS 100 – Independent Study (E)

This elective is for students who have been identified by the administration to pursue a special, directed course of study during a semester. Prerequisite: Recommendation of the dean of COM or dean of COB.

6 semester credits

IDIS 197 – Medical Education Research (E)

This elective is intended to provide a framework within which medical students may engage in biomedical science research projects or a variety of activities related to such research at KCU or other approved institution(s) and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of the appropriate college is required.

1-5 semester credits

IDIS 198 – Biomedical Science Research (E)

This elective is intended to provide a framework within which medical students may engage in biomedical science research projects or a variety of activities related to such research at KCU or other approved institution(s) and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of the appropriate college is required.

1-5 semester credits

IDIS 199 – Social Medicine Research (E)

This course is intended to provide a framework within which MSI students may engage in behavioral science research projects or a variety of activities related to such research at KCU or other approved institution(s) for academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of the appropriate college is required.

1-5 semester credits

IDIS 202 – Spanish for Medical Professionals I (E)

This course is designed for those with little to no previous experience with the Spanish language and for those who wish to improve their medical Spanish skills. It is based on the concept of using simple conversations to facilitate a health care interaction and using repetition to learn a new language. Previous knowledge in Spanish is helpful, but not essential.

1 semester credit

IDIS 203 – Health-Care Management and Public Health Policy (E)

This course provides an introduction to health-care management and public health policies in the health-care field including areas of managed care, quality care issues, cost considerations, and management and leadership practices. Students are introduced to the management languages of accounting, economics, finance, human resources, information technology, law, marketing and management.

0.5 semester credit

IDIS 209 – Spanish for Medical Professionals II (E)

This is an advanced course for students who have completed IDIS 202 or who have equivalent training and experience with medical Spanish.

1.0 semester credit

Global Health Track

GLMD 100, 200/201, 300/301, 400/401 – Global Health Track (E)

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application. Prerequisites: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

1 semester credit

GLMD 105, 205 – Global Health Outreach (E)

This elective provides didactic review sessions and instruction, including understanding of pre-post travel clinical consultation, information regarding travel safety and prevalence of disease/illness in a specific country, in preparation and application for a medical mission to that country to provide supervised medical care. May be repeated for up to 8 credits. Prerequisites: Must be in good academic standing at KCU and complete the application process for each outreach.

0.5 - 4 variable credits

FMED 311 – International Community Medicine (E)

This elective clerkship consists of participation in a medical mission to countries such as Kenya, Guatemala, the Dominican Republic, etc. The clerkship consists of predeparture didactic review sessions, country-specific medical language review, sessions regarding travel safety, and prevalence of disease/illnesses in the destination countries. In the country, time is spent providing supervised medical care. Prerequisites: 1) OMS III or OMS IV status; 2) Knowledge of the destination country language is helpful but not required. May be repeated for up to 16 hours of credit.

0.5 - 4 variable credits

FMED 411 – International Health (E)

This elective clerkship consists of participation in a medical mission to countries such as Kenya, Guatemala, the Dominican Republic, etc. The clerkship consists of predeparture didactic review sessions, country-specific medical language review, sessions regarding travel safety, and prevalence of disease/illnesses in the destination countries. In country time is spent providing supervised medical care. Prerequisites: 1) OMS III or OMS IV status; 2) Knowledge of the destination country language is helpful but not required. May be repeated for up to 16 hours of credit.

0.5 - 4 variable credits

Military Medicine Track

MIMD 101/102, 201/202 – Military Medicine I, II, III, and IV (E)

This elective is a specialized curricular honors track for Health Professions Scholarship Program (HPSP) student recipients and National Guard members who will serve as military physicians in the U.S. Army, Navy, and Air Force following medical school graduation. This specialty track provides learning opportunities uniquely aligned to address Medical Corps officer duties and obligations. Graded P/F.

1 semester credit

Fellowship Opportunities

OCS 399 – OMM Fellowship (E)

The OMM Fellowship provides selected students with advanced professional education in osteopathic manipulative medicine, and provides a framework under which they develop teaching and research skills. Variable credit with fall and spring offerings awarded 20 credits. This is a 12-month program with a maximum value of 40 credits. Prerequisite: Selection through application process.

20 semester credits

Student Research Fellowship

The University sponsors research fellowships for medical students. The purpose of the research fellowship program is to promote research involvement by KCU students in collaboration with KCU faculty. The application process and timeline is announced annually by the Office of Research and Sponsored Programs, and fellowships are awarded competitively. Potential areas of research include: basic sciences, clinical sciences, clinical epidemiology and public health, preventative medicine, health services and educational research. Interested parties should contact the vice president of research.

Third and Fourth Year Clinical Clerkships

Clinical clerkships in the third and fourth years reinforce and expand on the training of the first two years of medical school. Third-year consists of required clinical clerkships as well as some possible electives. Fourth year consists of two required clerkships, two required sub-internships, and elective clerkships. Required third and fourth year clinical clerkships are completed at affiliated training sites. Assignment to sites is determined by a rotation match process conducted during the second year.

Enrollment Status of Third and Fourth Year Students

Students enrolled in clerkships are considered full time.

Travel for Clinical Experiences

Students participating in the osteopathic medical curriculum are required to receive instruction in a clinical setting. As a result, it will be necessary for students to make arrangements for transportation to and lodging near clinical facilities. The University does not provide for the cost of transportation or lodging. Travel arrangements are the sole responsibility of the student. Students are not considered agents or employees of the University and are not insured

for any accidents or mishaps that may occur during any travel to and/or from educational activities unless the travel is completed as a group in direct supervision of a University official and in direct connection to the educational and/or University sponsored event. Students are responsible for all out-of-pocket expenses associated with clinical education, such as transportation, housing, meals, professional attire, laboratory fees, etc.

Required Clinical Clerkship Descriptions

All clerkships offered at variable credit [2 to 8 semester credits].

CLMD 300 – Basic Science and Clinical Review

This required third-year course is designed to occur after the completion of all second-year requirements and prior to the successful completion of COMLEX Level 1. Not repeatable for credit.

CLMD 406 – Clinical Management Review

This required course is taken at the beginning of the student's fourth year. It is a self-paced study and review to improve the student's knowledge in clinical medicine. Not repeatable for credit.

EMED 401 – Emergency Medicine

This fourth-year required clerkship is designed to provide students with clinical exposure, observation and training to further their understanding of emergency medicine. Students focus on the care, treatment and diagnosis of a variety of acute and sub-acute problems in the adult emergency medicine patient. Highlights how to stabilize and correctly triage critically ill patients to prepare for more advanced study of the discipline. Specific goals, learning objectives and reading assignments are outlined in the required curriculum modules.

FMED 301 – Family Medicine I

This required clerkship provides students with clinical exposure, observation and training to further their understanding of family medicine. Two themes are addressed during this first of two family medicine clerkships: 1) prevention and wellness, and 2) communities and populations. Students focus on ambulatory management of common, acute, and chronic medical problems within a primary care setting to prepare for more advanced study of the discipline.

IMED 301 – Internal Medicine

This required clerkship provides students with clinical exposure, observation and training to better understand principles and practices of general internal medicine. Students focus on active participation in the care and management of patients to prepare for more advanced study of the discipline.

IMED 302 – Internal Medicine II

This required clerkship provides a continuation of training initiated in IMED 301. Students will more actively participate in care and management of patients and engage in greater responsibility in patient care. Additional concepts

of systems-based practice will be introduced to acquaint students with care of emergency patients and the role of physicians.

OBGY 301 – Obstetrics and Gynecology

This required clerkship provides students with clinical exposure, observation and training to further their understanding of obstetrics and gynecology. Students focus on the diagnosis, treatment and management of common OB/GYN conditions to prepare for more advanced study of the discipline. During the clerkship, students will continue to improve their abilities to obtain, record, analyze and communicate clinical information.

PEDS 301 – Pediatrics

This required clerkship provides students with clinical exposure, observation and training to further their understanding of pediatrics. Students focus on inpatient and outpatient medical management of infants and children to prepare for more advanced study of the discipline.

PSYC 301 – Psychiatry

This required clerkship provides students with clinical exposure, observation and training to further their understanding of psychiatry. Students focus on assisting with the treatment and medical management of patients with psychiatric disorders to better understand mental health and illness to prepare for more advanced study of the discipline.

SURG 301 – General Surgery I

This required clerkship provides students with clinical exposure, observation and training to further their understanding of general surgery. Students focus on active participation in the care of surgical patients in the operating room, the clinic and office.

SURG 302 – General Surgery II

This required clerkship provides students with a continuation of clinical exposure, observation and training to further develop understanding and skills in general surgery. Students actively participate in the care of patients in various stages of evaluation and treatment. These include, but are not limited to, preoperative visits, inpatient admission, operative procedures, and inpatient and outpatient recovery. Students participate as members of a multidisciplinary team responsible for patient care.

Elective and Sub-Internship Clerkships

The following list of elective and sub-internship clerkships is designed to provide students with clinical exposure, observation and training to further their understanding within a selected area of interest as specified in the course title. These experiences take place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Learning is enhanced with specific goals and learning objectives.

Sub-internships are restricted to fourth-year students and are designed to provide the student with an increased level of patient care responsibility. Students serve as the primary care provider under the direct supervision of the attending

physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of the discipline. Sub-internships must be completed as full block experiences. These clerkships are all awarded four semester credits.

Electives are generally completed as full-block experiences and are awarded four semester credits. Up to three fourth-year elective blocks may be completed as two, two-week elective clerkships (minimum of 10 business days per experience) and be awarded two semester credits for each experience. All other electives and required clinical clerkships must be full block experiences. Exceptions to credit values are rarely made and only in extenuating circumstances, as approved by the dean of COM.

Course ID	Title
ANES 402/402s	Anesthesiology (E) or (Sub-I)
ANES 411/411s	Pain Management (E) or (Sub-I)
CLMD 402	Health-Care Management & Public Health Policy (E)
CLMD 403	Medical Informatics (E)
CLMD 404	Integrated Medicine (E)
CLMD 405	Healthcare Improvement (E)
CLMD 407	Clinical Management Review II (E)
EMED 402/402s	Emergency Medicine (E) or (Sub-I)
EMED 404/404s	Wilderness Medicine (E) or (Sub-I)
FMED 311	DOCARE – International Community Medicine (E)
FMED 312	DOCARE – Dominican Republic International Medicine (E)
FMED 404/404s	Geriatrics (E) or (Sub-I)
FMED 405/405s	Sports Medicine (E) or (Sub-I)
FMED 406/406s	General Family Medicine (E) or (Sub-I)
FMED 408	Community Medicine (E)
FMED 409/409s	Primary Care (E) or (Sub-I)
FMED 410/410s	Physical Medicine & Rehabilitation (E) or (Sub-I)
FMED 411	International Health (E)
GENE 401	Clinical Topics in Medical Genetics (E)
IDIS 400	Clinical Independent Study (E)
IMED 402/402s	Pulmonary Medicine (E) or (Sub-I)
IMED 403/403s	Gastroenterology (E) or (Sub-I)
IMED 404/404s	Infectious Diseases (E) or (Sub-I)
IMED 405/405s	General Internal Medicine (E) or (Sub-I)
IMED 406/406s	Cardiology (E) or (Sub-I)
IMED 409/409s	Rheumatology (E) or (Sub-I)
IMED 410/410s	Neurology (E) or (Sub-I)
IMED 412/412s	Hematology/Oncology (E) or (Sub-I)
IMED 413/413s	Endocrinology/Metabolism (E) or (Sub-I)
IMED 414/414s	Medical Genetics (E) or (Sub-I)
IMED 415/415s	Dermatology (E) or (Sub-I)
IMED 416/416s	Nephrology (E) or (Sub-I)
IMED 417/417s	Allergy/Immunology (E) or (Sub-I)
IMED 418/418s	Gerontology (E) or (Sub-I)
IMED 419/419s	Addiction Medicine (E) or (Sub-I)
IMED 420/420s	Critical Care Medicine (E) or (Sub-I)
IMED 421/421s	Hospice/Palliative Care (E) or (Sub-I)
IMED 422	Electrocardiogram Interpretation (E)

OBGY 401/401s Maternal Fetal Medicine (E) or (Sub-I)
 OBGY 402/402s Medical Genetics (E) or (Sub-I)
 OBGY 403/403s General Gynecology (E) or (Sub-I)
 OBGY 404/404s Gynecologic Oncology (E) or (Sub-I)
 OBGY 405/405s General Obstetrics (E) or (Sub-I)
 OBGY 406/406s General Obstetrics/Gynecology (E) or (Sub-I)
 OBGY 407/407s Reproductive Endocrine (E) or (Sub-I)
 OCS 401/401s Osteopathic Manipulation (E) or (Sub-I)
 PATH 401/401s General Pathology (E) or (Sub-I)
 PATH 402/402s Clinical Pathology (E) or (Sub-I)
 PATH 403/403s Anatomic Pathology (E) or (Sub-I)
 PATH 404/404s Blood Banking (E) or (Sub-I)
 PATH 405/405s Forensic Pathology (E) or (Sub-I)
 PATH 406/406s Hematopathology (E) or (Sub-I)
 PATH 407/407s Toxicology (E) or (Sub-I)
 PEDS 401/401s Neonatology (E) or (Sub-I)
 PEDS 402/402s Pediatric Infectious Disease (E) or (Sub-I)
 PEDS 403/403s Pediatric Hematology/Oncology (E) or (Sub-I)
 PEDS 404/404s Pediatric Pulmonary Medicine (E) or (Sub-I)
 PEDS 405/405s Pediatric Gastroenterology (E) or (Sub-I)
 PEDS 406/406s Pediatric Neurology (E) or (Sub-I)
 PEDS 407/407s Pediatric Rheumatology (E) or (Sub-I)
 PEDS 408/408s Pediatric Genetics (E) or (Sub-I)
 PEDS 409/409s Pediatric Critical Care Medicine (E) or (Sub-I)
 PEDS 410/410s Adolescent Medicine (E) or (Sub-I)
 PEDS 411/411s General Pediatrics (E) or (Sub-I)
 PEDS 412/412s Pediatric Cardiology (E) or (Sub-I)
 PEDS 413/413s Pediatric Dermatology (E) or (Sub-I)
 PEDS 414/414s Pediatric Nephrology (E) or (Sub-I)
 PEDS 415/415s Developmental Pediatrics (E) or (Sub-I)
 PEDS 416/416s Pediatric Endocrinology/Metabolism (E) or (Sub-I)
 PEDS 417/417s Pediatric Allergy/Immunology (E) or (Sub-I)
 PEDS 418/418s Pediatric Emergency Medicine (E) or (Sub-I)
 PEDS 419/419s Community Pediatrics (E) or (Sub-I)
 PEDS 420/420s Medicine/Pediatrics (E) or (Sub-I)
 PMED 401/401s General Preventive Medicine (E) or (Sub-I)
 PMED 402/402s Occupational Medicine (E) or (Sub-I)
 PMED 403/403s Public Health (E) or (Sub-I)
 PMED 404/404s Environmental Health (E) or (Sub-I)
 PMED 405/405s Aerospace Medicine (E) or (Sub-I)
 PSYC 401/401s General Psychiatry (E) or (Sub-I)
 PSYC 402/402s Pediatric Psychiatry (E) or (Sub-I)
 RADI 401/401s General Radiology (E) or (Sub-I)
 RADI 402/402s Pediatric Radiology (E) or (Sub-I)
 RADI 403/403s Nuclear Medicine (E) or (Sub-I)
 RADI 404/404s Interventional Radiology (E) or (Sub-I)
 RADI 405/405s Body Imaging (E) or (Sub-I)
 RADI 406/406s Radiation Oncology (E) or (Sub-I)
 SURG 401/401s General Surgery (E) or (Sub-I)

SURG 402/402s Cardiovascular Surgery (E) or (Sub-I)
 SURG 403/403s Otolaryngology/ENT (E) or (Sub-I)
 SURG 404/404s Ophthalmology (E) or (Sub-I)
 SURG 405/405s Thoracic Surgery (E) or (Sub-I)
 SURG 406/406s Urology (E) or (Sub-I)
 SURG 407/407s Neurosurgery (E) or (Sub-I)
 SURG 408/408s Transplant Medicine (E) or (Sub-I)
 SURG 409/409s Plastic Surgery (E) or (Sub-I)
 SURG 410/410s Orthopedic Surgery (E) or (Sub-I)
 SURG 411/411s Colorectal Surgery (E) or (Sub-I)
 SURG 412/412s Trauma Surgery (E) or (Sub-I)
 SURG 413/413s Pediatric Surgery (E) or (Sub-I)

Research Clerkships

These elective clerkship experiences are designed to provide the student with a basic understanding of the selected area of interest. Students focus on the development and execution of a guided research project or participate with an existing study. Emphasis is placed on the integration of research into medical practice to prepare for more advanced study in the discipline. These clerkships take place in a wide variety of clinical, hospital or laboratory settings. Specific goals and learning objectives are determined by the supervising preceptor and a formalized plan must be submitted to the Office of Clinical Education and Office of Research and Sponsored Programs in advance for consideration and approval. Credit value is variable (1-4 semester hours) depending on the individualized study plan and required time on task. Credit is assigned based on increments of 1.0 credit for every 37.5 hours of contact time. Graded P/F.

ANAT 499	Anatomy Research (E)
ANES 499	Anesthesiology Research (E)
BCHE 499	Biochemistry Research (E)
EMED 499	Emergency Medicine Research (E)
FMED 499	Family Medicine Research (E)
GENE 499	Medical Genetics Research (E)
IDIS 397/497	Medical Education Research (E)
IMED 499	Internal Medicine Research (E)
MBIO 499	Microbiology Research (E)
OBGY 499	OB/GYN Research (E)
OCS 499	OPP Research (E)
PATH 499	Pathology Research (E)
PEDS 499	Pediatric Research (E)
PHAR 499	Pharmacology Research (E)
PHYS 499	Physiology Research (E)
PMED 499	Research in Preventive Medicine/Public Health (E)
PSYC 499	Psychiatry Research (E)
RADI 499	Radiology Research (E)
SURG 499	Surgery Research (E)

Specialty Honors Tracks

While most students do not have a firm commitment to a specialty of interest until well into their third year, some students come to medical school already having developed a desire to enter a specific career specialty. These students may apply for a Specialty Honors Track.

Specialty Honors Tracks have a limited number of pre-selected rotation patterns uniquely designed for a specific career specialty. Specialty Honors Track students are enrolled in a tailored third-year curriculum focused on a pre-selected specialty. Students will be selected for the Specialty Honors Track not only because of their interest, but also for their strong academic record in the first two years.

Specialty Honors Tracks include the traditional core rotations plus possible opportunities as listed below.

Family Medicine: Family medicine, radiology, sports medicine, or other primary care rotations.

Emergency Medicine: Toxicology, emergency medicine, pediatric emergency medicine, and radiology, trauma, or sports medicine.

Orthopedics: Trauma surgery, general orthopedics, or sports medicine.

Obstetrics and Gynecology: High risk obstetrics, gynecology-oncology, and adolescent health.

Pediatrics: Pediatric emergency medicine, NICU, pediatric cardiology, and PICU.

Internal Medicine: Gastrointestinal, cardiology, hematology-oncology, or infectious disease.

Surgery: Trauma surgery, pediatric surgery, or neurosurgery.

Psychiatry: Under-served populations, child and adolescent psychiatry, and addiction medicine.

Master of Arts in Bioethics

KCU's bioethics program provides students with a broad orientation to the interdisciplinary field of bioethics. This program attends to both philosophical and religious ethics as well as contributions from the social sciences and the medical humanities. Students must complete 30 credit hours of coursework. All courses in the MA programs are graded HP/P/F.

The final course in the degree program is a capstone project or comprehensive examination. The project allows students to pursue a bioethics question of special interest. It is intended as a mentored project in which the student works under the direction of a faculty member to make a significant contribution to bioethics. After completion of the project, the student may request to present his/her project in a conference with the KCU bioethics faculty and selected student peers. Comprehensive examinations entail students addressing assigned topics and writing about them in response to exam questions for which they have prepared from a reading list to be provided.

While ensuring that students have a solid foundation in bioethics, the bioethics program encourages critical creative thinking, collaborative work with other students and faculty, and innovative approaches to bioethics problems.

Master of Arts in Bioethics - Dual-Degree Track

The dual-degree track is approximately 44 months in length

and is designed for KCU medical students who decide to pursue a master's degree in bioethics conjointly with their DO degree. This degree is especially designed for students who want to provide leadership as physicians in helping to address the plethora of complex ethical issues confronting medicine today. With the joint degree (DO/MA), graduates will be especially well placed to provide bioethical leadership on hospital ethics committees, among their physician peers and in the local community. This degree will also help student be more competitive when applying for residencies, fellowships and scholarships.

Master of Arts in Bioethics – Standard Curriculum Dual-Degree Track

Required Courses (30 semester credits)

BETH 501	History and Methodology for Bioethics (3)
BETH 504	Diversity, Culture and Bioethics (3)
BETH 505	Bioethics and Public Policy (3)
BETH 507	Clinical Dilemmas in Bioethics (3)
BETH 5xx	Elective (3)
BETH 5xx	Elective (3)
BETH 5xx	Elective (3)
BETH 550	Bioethics Final Project (6)
Credits transferred from COM course offerings (3)	

Dual-Degree Track Course Sequence and Schedule

The course schedule for the dual-degree track can vary from semester to semester, but is traditionally offered in the following framework:

Fall Semester (MSI)

One credit from COM

Spring Semester (MSI)

One course

Fall Semester (MSII)

Two courses

One credit from COM

Spring Semester (MSII)

One course

One credit from COM

Fall Semester (MSIII)

Two courses

Spring Semester (MSIII)

One course

Fall and/or Spring Semester (MSIV)

One course – Final Project (6 credits)

COM Courses Applicable to MA in Bioethics

MED 123	Bioethics I (1)
MED 223	Bioethics II (1)
MED 236	Bioethics III (1)

Master of Arts in Bioethics - Career Enhancement Track

This track is designed for healthcare professionals – physicians, nurses, social workers, attorneys, chaplains, medical technicians, etc., who have developed an interest in

bioethics professionally and would like to pursue master's-level training in bioethics. These students may pursue the master's degree on a part-time basis, although the expectation is that the degree will be completed within five years. There is no required order of courses for completion of the bioethics degree, but a minimum of 30 semester hours is required. Therefore, career-enhancement students may take the required and elective courses in the order that works best for their individual schedules.

Required Courses (30 semester credits)

BETH 501	History and Methodology for Bioethics (3)
BETH 502	Introduction to Bioethics (3)
BETH 504	Diversity, Culture and Bioethics (3)
BETH 505	Bioethics and Public Policy (3)
BETH 507	Clinical Dilemmas in Bioethics (3)
BETH 5xx	Elective (3)
BETH 5xx	Elective (3)
BETH 5xx	Elective (3)
BETH 550	Bioethics Final Project (6)

Bioethics Course Descriptions

BETH 501 – History and Methodology for Bioethics

This course develops the philosophical foundations of bioethics. The course will be a mixture of lectures and discussion, and will center on key texts of Western moral philosophy by Mill, Kant, and Aristotle, along with selections from other contemporary theorists.

3 semester credits

BETH 502 – Introduction to Bioethics

This course examines how advances in medicine have shaped new questions and challenges for ethics. It will explore the moral and social complexities that demonstrate the essential role of bioethics in 21st century health care.

3 semester credits

BETH 503 – Religious Perspectives and Bioethics (E)

This elective course introduces students to the communities, practices, values, texts and beliefs of selected religious traditions with a focus on their bioethical implications.

3 semester credits

BETH 504 – Diversity, Culture and Bioethics

This course explores the role of human and cultural variation in health and illness. It examines the intersection between disability, race, gender, sexual orientation, diverse spiritual beliefs and medical practice.

3 semester credits

BETH 505 – Bioethics and Public Policy

This course will introduce students to issues of marginalization in American health care and key ethical issues in national and international public health systems and policies.

3 semester credits

BETH 506 – Exploring the Foundations of Bioethics

This course will provide a foundational base of knowledge

that will demonstrate the need for skills in bioethics and the medical humanities in everyday doctoring.

2 semester credits

BETH 507 – Clinical Dilemmas in Bioethics

This course will enhance students' skills in ethical decision-making by applying those skills to actual cases encountered in the clinical setting. Students may not earn credit for both BETH 507 and 508.

3 semester credits

BETH 508 – Clinical Topics in Bioethics

This course will demonstrate the value of bioethics in clinical settings. It will explore ethical challenges that clinicians face in their work and provide opportunities for students to shadow healthcare practitioners in various settings. Students may not earn credit for both BETH 507 and BETH 508.

3 semester credits

BETH 509 – Independent Study: Core Replacement

This independent study opportunity enables students to complete one of the required courses at a time when it is not offered as a group class. Prerequisite: Permission of the department chair.

3 semester credits

BETH 510 – Selected Topics (E)

This elective course explores various topics and issues in bioethics as identified by the Bioethics Department. Prerequisite: Permission of department chair. May be repeated for credit up to a maximum of 12 credits.

3 semester credits

BETH 511 – Bioethics and Globalization (E)

This course explores global health care and bioethical issues, surveys national healthcare plans from universal coverage to laissez-faire approaches. It explores providing health care in areas of severe poverty, focusing on hunger and malnutrition, malaria and HIV/AIDS.

3 semester credits

BETH 512 – Environmental Quality, Human Health and Bioethics (E)

This course explores the inter-relationship between environmental problems and human health, focusing on the implications for bioethics, the practice of medicine, health care and public policy.

3 semester credits

BETH 514 – Death and Dying: Social and Ethical Factors (E)

The experience of dying has changed profoundly as medical technologies have been able to prolong life and stave off death. This course will examine the consequences of modernization and medicalization of the dying process for patients, loved ones, providers, and the broader society.

3 semester credits

BETH 515 – Bioethics and the Law (E)

This course explores the relationship between bioethics and the law. Selected legal cases will strategically touch upon reproduction, end-of-life care, doctor-patient relationships, standards of care, new technologies, death, transplantation, and explore research ethics and regulation.

3 semester credits

BETH 516 – Pediatric Ethics (E)

This course will focus on the ethical issues that arise in pediatric medicine during the diagnosis, decision-making and treatment of infants, children and adolescents as well as elements of philosophical ethics.

3 semester credits

BETH 517 – Passive Ethics: Suffering, Futility and Death (E)

Most traditional discourse regarding ethics deals with the discussion and adjudication of the actions taken by an individual. This course will focus upon the individual or group that is “acted upon” by those who make decisions and take actions. In particular, the course will look at the meaning of suffering by investigating how it has been defined and how it impacts medical decision making. This course will also use a variety of methods to understand how conflict develops when either physicians or families declare that care is “futile.” Finally, it will pay close attention to decision making when death is imminent.

3 semester credits

BETH 518 – Social and Ethical Transformations in Bioethics (E)

Medicine is a social institution. The shape of healthcare delivery, the medical profession, and knowledge about the body, all emerge through a collaboration of medicine and society. This course will explore these connections in the past, present, and future.

3 semester credits

BETH 519 – Film and Creative Imagination in Bioethics (E)

This course will stimulate creative imagination of students through the craft of film making. It will examine how films create and convey meanings that are relevant to understanding the human condition and issues that loom large in the practice of medicine.

3 semester credits

BETH 521 – Social Justice, Bioethics, and the Practice of Medicine (E)

This course will explore the social factors which underlie and shape the experiences of illness and health. It will focus on the social organization of medical care and how health and access to medical care are variably attained by different groups.

3 semester credits

BETH 522 – Professional Bioethics (E)

This elective course provides students with the opportunity to receive intensive professional development regarding current research in bioethics through participation in

an academic conference and mentoring from faculty. Prerequisite: Permission of instructor. May be repeated for credit up to a maximum of three credits.

1 - 3 semester credits

BETH 525 – Research Ethics (E)

This course explores key ethical issues in the history, funding, design, conduct, and publishing of biomedical research.

3 semester credits

BETH 529 – Independent Study (E)

This independent study opportunity enables students to pursue an interest in bioethics with an instructor who has that specific expertise. Prerequisite: Permission of department chair. May be repeated for credit under different topics for a maximum of 6 credits.

1 - 3 semester credits

BETH 550 – Bioethics Final Project

This course allows students to pursue a bioethical issue of special interest. Students will complete the default project type unless they petition the Bioethics chair for a variation. Prerequisites: Minimum of 24 bioethics credit hours and approval of the department chair. May be repeated for credit up to a maximum of six credits.

1 - 6 semester credits

College of Biosciences

With an expanded mission that includes greater emphasis on research and discovery, KCU established the College of Biosciences (COB) in 2004. The college granted its first diplomas to graduates of the master of science in biomedical sciences program in 2006.

Master of Science in Biomedical Sciences

The College of Biosciences offers a master of science in biomedical sciences. Students interested in pursuing the master of science in biomedical sciences can enroll in either a one-year non-research or two-year research track program. Students in the College of Medicine may pursue a one-year research-based anatomy track.

The one-year track includes coursework in biochemistry, genetics, microbiology, epidemiology, physiology, molecular biology, immunology, embryology, and anatomy, and places emphasis on the acquisition of knowledge regarding state-of-the-art research protocols, regardless of the field one chooses to enter. The one-year track is designed to prepare students for doctoral programs in the healthcare professions (e.g., DO, MD, DDS).

The research track is designed for individuals interested in pursuing careers as research assistants or enrolling in PhD programs in the biomedical sciences, or in pursuing a career in a health-related field including medicine.

The anatomy track includes courses in epidemiology, histology, anatomical imaging, embryology and pedagogy in anatomy. This track also emphasizes research.

Biomedical Sciences Learning Outcomes

Graduates from the one-year master of science in biomedical sciences track will:

1. Be able to understand and summarize articles on research topics from biomedical science journals and present professional reviews of the topics in seminars and professional quality papers.
2. Have a basic knowledge of the role and use of biostatistics in biomedical research and be able to generate hypotheses and select appropriate statistical tests to properly evaluate and compare research data.
3. Be able to effectively use biomedical databases when investigating scientific questions.
4. Be able to summarize how research is used to develop new therapies in medicine.
5. Be able to articulate interrelationships of diverse information and apply those relationships to current clinical

situations.

6. Be prepared to succeed in doctoral programs in the health professions and life sciences.

Graduates from the research (two-year) and anatomy tracks, in addition to the six learning outcomes for the one-year track, will:

1. Be able to interpret/analyze biomedical information and use it to design/conduct research in biomedical sciences.
2. Be able to conduct original, translational research.
3. Be able to develop the ability to meet professional standards for writing publications and assist with grant preparation and submissions.

COB Curriculum

Master of Science in Biomedical Sciences

All students in the master of science in biomedical sciences degree programs, whether in the one-year or research track, will be full-time students, unless specifically approved to be part-time. The one-year master's program requires the completion of 36 semester credits, is more classroom intensive and does not involve the conduct of original research. The research master of science degree program requires the completion of approximately 60 semester credits, which includes advanced courses and a thesis based upon the results of original research. The time required to conduct original research necessitates this track to typically be about two years.

Master of Science in Biomedical Sciences One-Year Track

The length of the one-year track program is approximately 11 months.

Required Courses (36 of the following semester credits)

BIOS 505	Human Physiology I (3)
BIOS 506	Human Physiology II (3)
BIOS 503	Histology (3) ~ OR ~
BIOS 508	Human Genetics (3) ~OR~
BIOS 517	Human Embryology and Developmental Biology (3) -OR-
BIOS 518	Microbiology (3)
BIOS 509	Introduction to Epidemiology (3)
BIOS 513	Biochemistry (3)
BIOS 514	Molecular Biology (3)
BIOS 516	Immunology (3)
BIOS 536	Comparative Vertebrate Anatomy I
BIOS 537	Comparative Vertebrate Anatomy II
BIOS 570	Synthesis/Comprehensive Exam (3)
BIOS 571	Scientific Seminar (3)

Elective Courses

BIOS 581	Biomedical Research (1-5)
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Example of One-Year Track Curriculum

Fall Semester

BIOS 503	Histology (3) ~OR~
BIOS 518	Microbiology (3)
BIOS 505	Human Physiology I (3)
BIOS 509	Introduction to Epidemiology (3)
BIOS 513	Biochemistry (3)
BIOS 536	Comparative Vertebrate Anatomy I (3)

Spring Semester

BIOS 506	Human Physiology II (3)
BIOS 508	Human Genetics (3) ~OR~
BIOS 517	Human Embryology and Developmental Biology (3)
BIOS 514	Molecular Biology (3)

BIOS 516	Immunology (3)
BIOS 537	Comparative Vertebrate Anatomy II (3)
BIOS 570	Synthesis/Comprehensive Exam (3)
BIOS 571	Scientific Seminar (3)

Master of Science in Biomedical Sciences Research Track

The length of the research track is about 24 months. This may vary depending on the time needed to complete an original research project, i.e., collect enough data for a thesis dissertation.

Primary Research Track Courses

BIOS 520	Research Seminar (1)
BIOS 580	Research (3-9 per semester)
BIOS 590	Thesis (6)

Additional Course Requirements (7 of the following semester courses)

BIOS 503	Histology (3)
BIOS 505	Human Physiology I (3)
BIOS 506	Human Physiology II (3)
BIOS 508	Human Genetics (3)
BIOS 509	Introduction to Epidemiology (3)
BIOS 513	Biochemistry (3)
BIOS 514	Molecular Biology (3)
BIOS 516	Immunology (3)
BIOS 518	Microbiology (3)
BIOS 536	Comparative Vertebrate Anatomy I
BIOS 537	Comparative Vertebrate Anatomy II

Detailed Example of Research Track Curriculum

Fall Semester (First Year)

BIOS 503	Histology (3)
BIOS 509	Introduction to Epidemiology (3)
BIOS 513	Biochemistry (3)
BIOS 518	Microbiology (3)
BIOS 520	Research Seminar (1)
BIOS 580	Research (5)

Spring Semester (First Year)

BIOS 508	Human Genetics (3) ~OR~
BIOS 517	Human Embryology and Developmental Biology (3)
BIOS 514	Molecular Biology (3)
BIOS 580	Research (3-6)

Fall Semester (Second Year)

BIOS 5xx	Bioscience Elective (3)
BIOS 520	Research Seminar (1)
BIOS 580	Research (9)

Spring Semester (Second Year)

BIOS 516	Immunology (3)
BIOS 520	Research Seminar (1)
BIOS 580	Research (8)
BIOS 590	Thesis (5)

The curriculum for each student in the research track will be determined in consultation with the student's mentor. The graduate thesis committee is composed of three or more faculty members, at least one of whom should be affiliated

with another institution. The director of the student's research project will be a member of the committee and serves as the student's academic advisor, as appointed by the dean of COB. Students who perform research off-site will have an academic advisor named by the dean. The thesis must be successfully defended before the graduate thesis committee to fulfill the requirements for the degree.

Master of Science in Biomedical Sciences with Emphasis in Clinical Anatomy

Students in the College of Medicine may pursue a one-year research-based anatomy track.

Primary Anatomy Track Courses

BIOS 509	Introduction to Epidemiology (3)
BIOS 517	Topics in Human Embryology and Developmental Biology (3)
BIOS 520	Research Seminar (1)
BIOS 523	Anatomical Imaging and Diagnostics (3)
BIOS 526	Topics in Histology (3)
BIOS 530	Foundations in Teaching and Learning I: Theory and Practice (3)
BIOS 531	Foundations in Teaching and Learning II: Implementation and Evaluation (3)
BIOS 533	Advanced Topics in Anatomy (3)
BIOS 580	Research (3-9)
BIOS 590	Thesis (6)

Detailed Example of Anatomy Track Curriculum

Fall Semester

BIOS 509	Introduction to Epidemiology (3)
BIOS 520	Research Seminar (1)
BIOS 526	Topics in Histology (3)
BIOS 530	Foundations in Teaching and Learning I: Theory and Practice (3)
BIOS 580	Research (5)

Spring Semester

BIOS 517	Topics in Human Embryology and Developmental Biology (3)
BIOS 520	Research Seminar (1)
BIOS 580	Research (3-9)
BIOS 590	Thesis (6)

Biomedical Sciences Course Descriptions

BIOS 503 – Histology

Students will study the chemical and molecular structure of the eukaryotic cell as well as its basic functions, with emphasis on cell membrane structure and function. Students will then apply the cellular level of biology to the study of tissues and their structure and function, exploring similarities and differences in the tissues that make up each of the body's major systems. Tissue identification and identification of parts of tissues and organs at the microscopic level will be studied using slides presented during lectures and incorporated into the exams.

3 semester credits

BIOS 505 – Human Physiology I

This course is a two-semester period of learning utilizing

classroom lectures and discussions, and assignments. Upon completion of the course, the participants will be able to describe components of the body systems, including cardiovascular, renal, and respiratory; and to explain how each system functions and how the various physiological systems interact to maintain homeostasis.

3 semester credits

BIOS 506 – Human Physiology II

This is the second half of a two-semester course utilizing classroom lectures, discussions and assignments. Upon completion of this course, participants will be able to describe the components of the body systems, including neural, gastrointestinal, endocrine, and reproductive, and to explain how each system functions and how the various physiological systems interact to maintain homeostasis.

Prerequisite: BIOS 505.

3 semester credits

BIOS 508 – Human Genetics

This course provides a study of heredity principles and genome variation in relation to the inheritance of human disease. Aspects of molecular, developmental, and immunogenetics will also be introduced.

3 semester credits

BIOS 509 – Introduction to Epidemiology

Introduction to Epidemiology is a multi-faceted course designed to broadly educate graduate students on the practical aspects of the discipline of epidemiology and its associated applications to public health, patient-based research study methodologies and designs, and general principles of biomedical statistics used in the medical literature.

3 semester credits

BIOS 513 – Biochemistry

This course will provide students with the foundations of information regarding the basic principles associated with biochemistry. Topics covered will include protein structure, thermodynamics, mechanisms of enzyme action and intermediary metabolism.

3 semester credits

BIOS 514 – Molecular Biology

This course will provide a foundation of basic principles of molecular biology. The topics to be covered include basic molecular genetic mechanisms, internal organization and regulation of the cell, and cell function within tissues and organisms. Successful completion of the course will enable students to initiate independent study and participate in upper-level courses in the biosciences.

3 semester credits

BIOS 516 – Immunology

This course includes lectures on the mechanisms of humoral and cellular immunity. Material will cover characteristics of antigens, antibodies and their interactions; ontogeny, immune responsiveness, hypersensitivity and immunologic tolerance.

3 semester credits

BIOS 517 - Human Embryology and Developmental Biology

This elective will examine early human development and the fetal-maternal relationship, including gametogenesis, fertilization, implantation, the establishment of the basic embryonic body plan, placental formation and the morphological changes that occur during the development of the various systems of the human embryo and fetus. Genetic factors in development will be discussed, including signaling factors and morphogenetic proteins. Body systems to be discussed include integumentary, nervous, sensory, head and neck, cardiovascular, respiratory, digestive, and urogenital. Limb development will be examined as well as aspects of fetal physiology. Attention will be given to causes, mechanisms, and patterns of developmental disorders.

3 semester credits

BIOS 518 - Microbiology

Microbiology is the study of living organisms that are usually too small to be seen with the unaided eye, including organisms such as bacteria, fungi, algae, and protozoa. Microbiology also includes the study of viruses and other acellular infectious agents. A major theme of this course is the relationship between microorganisms and humans. This relationship includes the harmful effects of microorganisms, such as human disease and food spoilage, as well as the beneficial effects of microbes, such as the use of microorganisms in modern biotechnology, biofuel production, and bioremediation.

3 semester credits

BIOS 519 – Topics in Human Embryology

Designed to provide graduate students with insight into the important correlation between human development anatomy and clinical gross anatomy. The course will cover development of all of the systems of the body. The fetus, placentation, birth and delivery will be dealt with. Major congenital malformations will be discussed in detail.

3 semester credits

BIOS 520 – Research Seminar

This seminar course is designed for students enrolled in the research track of the biomedical sciences program. Students will give formal oral presentations of the research conducted for their master’s degree and which will be published in the student’s thesis. The presentations will be made to the members of the student’s graduate advisory committee and other invited audience members (e.g., students and faculty). May be repeated for credit up to a maximum of three credits.

1 semester credit

BIOS 523 – Anatomical Imaging and Diagnostics

Provides graduate students with a clinically and scientifically relevant background in presently available methods for medical imaging and diagnostics. Imaging modalities will include plain radiography, computed tomography, magnetic resonance imaging, fluoroscopy and ultrasonography. Students will become acquainted with the function of the modalities as well as the best mode to choose for given anatomical regions and cases. The course will move through the relevant anatomy in much the same way as a human anatomy course after the initial foundation

concerning the science behind the different modalities is laid. Prerequisite: Permission of instructor.

3 semester credits

BIOS 526–Topics in Histology

The purpose of this course is to provide graduate students with the opportunity to study and discuss, through selected case studies, pathological changes in normal tissues that relate to specific disease situations and to present their findings in the form of presentations to others in the course.

3 semester credits

BIOS 530– Foundations in Teaching and Learning I: Theory and Practice

The purpose of this course is to provide graduate students with the requisite knowledge to effectively deliver educational materials to adult learners based on current best practices. Topics to be covered include basic learning theories, cognitive science and metacognition, pedagogy, new teaching methods and skills teaching. Students will learn approaches to basic curriculum design principles for lecture preparation, including development of effective learning objectives as well as formative and summative assessment strategies. Current literature pertaining to course topics will be reviewed and discussed throughout the course/semester. Approaches to medical education research will be discussed, including both qualitative and quantitative research design and inquiry. Prerequisite: Permission of instructor.

3 semester credits

BIOS 531 – Foundations in Teaching and Learning II: Implementation and Evaluation

The purpose of this course is to apply the information presented in the Foundations in Teaching and Learning I: Theory and Practice course in the creation of presentation materials given to first-year medical and graduate students. Students will be required to work with a faculty member to develop and present one lecture and associated learning objectives and test questions for a topic in embryology, histology, or gross anatomy. In addition, students will be expected to organize a representative course for one anatomical region, which may include relevant course material in embryology, histology, gross anatomy, and/or pathology at the graduate program level. Prerequisite: Permission of instructor.

3 semester credits

BIOS 533 – Advanced Topics in Anatomy (E)

This elective is designed for students with interests in anatomical research and current anatomy topics in the literature. Prerequisite: Permission of instructor. May be repeated once for credit for a maximum of two credits.

1 semester credit

BIOS 536 – Comparative Vertebrate Anatomy I

The purpose of the Comparative Anatomy course is to provide graduate students with a perspective of anatomy based on the origin and comparative anatomy of the vertebrate body plan. In this course, students will examine the various groups of vertebrates from an evolutionary perspective leading up to the mammals. Each major system will be examined from this perspective as well,

leading to an understanding of the mammalian body form as being a derivative of the sequential changes seen in the variations of the body forms of other vertebrate groups. A brief review of cladistics and ontogeny will also be covered.

3 semester credits

BIOS 537 – Comparative Vertebrate Anatomy II

The purpose of this Comparative Anatomy course is to provide graduate students with an evolutionary perspective on modern human anatomy. An overview of the human body will be presented in the context of comparative anatomy and students will gain a deeper understanding of how the human body plan emerged, what aspects reflect basic principles of vertebrate and mammalian anatomy, and how these factors influence both basic science and clinical approaches to the study of the human body. A brief review of human evolution, early aspects of human development, and the biomechanics of bipedalism will also be covered.

3 semester credits

BIOS 570 – Synthesis/Comprehensive Exam

This course will provide integration, synthesis and review of the biosciences content covered in the master of science in biomedical sciences one-year track. Content will be provided in both didactic and online formats. There will be a comprehensive examination at the end of the course.

3 semester credits

BIOS 571 – Scientific Seminar

In this course, each student will prepare a seminar on a current research topic in the biomedical sciences and present the seminar. In addition, each student will be required to attend the seminars.

3 semester credits

BIOS 572 – Independent Study in Hematological Genetics

This course is designed for students to become knowledgeable in the area of hematological genetics. The course involves a review of basic Mendelian genetics, diagnostic testing and a survey of a broad spectrum of hematological diseases. Prerequisite: Approval of the dean of COB.

3 semester credits

BIOS 580 – Research (Two-year Research and Anatomy Tracks)

This course is for students enrolled in the research track of the master of biomedical sciences program. Students will conduct an original research project as approved and supervised by each student's advisory committee. May be repeated for credit up to a maximum of 45 credit hours.

3-9 semester credits (variable)

BIOS 581 – Biomedical Research (One-year Track)

This elective provides students an opportunity to learn and/or improve research techniques in a laboratory setting. Students will be able to participate in the development of an individual project as part of a research team. May be repeated for credit up to three semesters for a maximum of 15 credit hours. Prerequisite: GPA of 3.0 or higher.

1-5 semester credits (variable)

BIOS 590 – Thesis

Each student will write and defend a research thesis. The thesis will be based on original research.

6 semester credits

Course Descriptions

ACLS Advanced Cardiac Life Support

COM, D.O.

Certification is required prior to clinical clerkship participation and maintained throughout clinical training. All students must complete KCU's course.

Credits: Non-credit, required. Type: Course

ANAT 199 Anatomy Research (E)

COM, D.O.

This elective is intended to provide a framework within which students may engage in anatomy research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the individualized plan of study and required time on task. May be repeated for credit up to a maximum of 20 credits.

Credits: 2 Type: Course

ANAT 208 Anatomical Dissection (E)

COM, D.O.

This course will involve performing lab-oriented clinical anatomy dissection.

Prereq: MED 204 Or MED 211 and MED 212

Credits: 2 Type: Course

ANAT 209 Foundations of Teaching Anatomy

COM, D.O.

The course provides opportunities for students to learn to teach small groups or individuals in the anatomy lab setting while reinforcing the gross anatomy learned during their first year of medical school. May be repeated for a maximum of 2 credits.

Prereq: Instructor Permission

Credits: 1 Type: Course

ANAT 210 Advanced Suture Skills (E)

COM, D.O.

This is an elective course that will allow students to develop better suturing skills. Students will work in supervised small groups to develop and perfect their suturing skills.

Prereq: Successful completion of MSI-level and MED 211 and 212. Prior experience in suturing through suture labs is helpful, but not required.

Credits: 0.5 Type: Course

ANAT 299 Anatomy Research (E)

COM, D.O.

This elective is intended to provide a framework within which students may engage in anatomy research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the individualized plan of study and required time on task. May be repeated for credit up to a maximum of 20 credits.

Credits: 2 Type: Course

ANAT 399 Anatomy Fellowship KCU (E)

COM, D.O.

The KCU Fellowship in Clinical Anatomy program provides advanced professional education in aspects of human gross,

microscopic and clinical anatomy, and provides a framework under which students develop teaching and research skills.

Prereq: 1) Successful completion of years 1 & 2 COM course work; 2) Submission of applications including statement of interest; 3) Development of an initial research project outline with an appropriate number of primary literature citations. May be repeated twice for credit.

Credits: 20 Type: Independent Study

ANAT 401 General Anatomy (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in anatomy.

Credits: 4 Type: Clerkship

ANAT 401s General Anatomy (S)

COM, D.O.

This clerkship is offered as a sub-internship in general anatomy.

Credits: 4 Type: Clerkship

ANAT 499 Anatomy Research (E)

COM, D.O.

Student research in an area of interest within anatomy under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

ANES 402 Anesthesiology (E)

COM, D.O.

This elective clinical experience is designed to provide the student with clinical exposure, observation and training to further understanding of anesthesiology. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 4 Type: Clerkship

ANES 402s Anesthesiology (Sub-I)

COM, D.O.

This fourth-year clinical experience is designed to provide the student with an increased level of patient care responsibility to further understanding of anesthesiology. Students serve as the primary physician under direct supervision of the attending, faculty or resident and may perform simple diagnostic procedures. Focus is placed on self-education and more advanced study of the discipline. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally outlined in the course curriculum.

Credits: 4 Type: Clerkship

ANES 411 Pain Management (E)

COM, D.O.

This elective provides opportunities for students to participate in acute and chronic pain management. Experiences may include acute peri-operative pain, cancer management pain, and/or behaviorally-associated pain. Students will be introduced to various invasive pain management techniques that may include inducing infiltration and nerve block, intravenous anesthesia, peridural anesthesia, and other invasive techniques.

Prereq: Completion of SURG 301 and SURG 302.

Credits: 4 Type: Clerkship

ANES 411s Pain Management (Sub-I)

COM, D.O.

This elective provides opportunities for students to participate in

acute and chronic pain management. Experiences may include acute peri-operative pain, cancer management pain, and/or behaviorally-associated pain. Students will be introduced to various invasive pain management techniques that may include inducing infiltration and nerve block, intravenous anesthesia, peridural anesthesia, and other invasive techniques.

Prereq: Completion of SURG 301 and SURG 302.

Credits: 4 Type: Clerkship

ANES 499 Anesthesiology Research (E)

COM, D.O.

Student research in an area of interest within anesthesiology that is under the direction of a member of the faculty.

Credits: 1 Type: Clerkship

AUTOPSY Autopsy

COM, D.O.

Required autopsy experience for students to progress from MSII to MSIII. Experiences are facilitated through the Pathology Department.

Credits: 0 Type: Independent Study

BCHE 100 Fundamentals of Neurochemistry (E)

COM, D.O.

This elective course provides students with the opportunity to learn the basic concepts of neurochemistry at the cellular and biochemical levels with emphasis on general principles of biochemistry.

Credits: 1 Type: Course

BCHE 199 Research in Chemical Neurobiology (E)

COM, D.O.

This elective provides students an opportunity to learn and/or improve research techniques in a supervised setting and allows students to have "hands-on" experience in laboratory science by preparing for and conducting experiments associated with specified objectives. Students will be able to develop an individual project as part of a research team. Credit value is variable from 2-5 semester credits. May be repeated for credit up to a maximum of 15 credits.

Prereq: Instructor Permission

Credits: 2 Type: Independent Study

BCHE 215 Advanced Neurochemistry (E)

COM, D.O.

This elective provides students an opportunity to learn about the biomolecules associated with the normal and pathological function of the nervous system with the emphasis on general principles of biochemistry.

Prereq: Successful completion of MED 211 & 212.

Credits: 1.5 Type: Course

BCHE 299 Research in Chemical Neurobiology (E)

COM, D.O.

This elective provides students an opportunity to learn and/or improve research techniques in a supervised setting and allows students to have "hands-on" experience in laboratory science by preparing for and conducting experiments associated with specified objectives. Students will be able to develop an individual project as part of a research team. Credit value is variable from 2-5 semester credits. May be repeated for credit up to a maximum of 15 credits.

Prereq: Instructor Permission

Credits: 2 Type: Independent Study

BCHE 499 Biochemistry Research (E)

COM, D.O.

Student research in an area of interest within biochemistry that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

BCLS Basic Life Support

COM, D.O.

Certification is required to advance to third year of studies. All students must take the KCU offered course. Note: Students may not progress until all required elements have been completed.

Credits: Non-credit, required. Type: Course

BETH 110 Ethics for Physicians (E)

COM, D.O.

This course provides an opportunity to explore the ethical dimensions of medicine at an advanced level, focusing on professional ethics for physicians as well as clinical bioethics topics, such as informed consent and end-of-life care. Students pursuing the dual DO/MA bioethics degree may use this course to fulfill an elective requirement in the DO program or toward a curriculum requirement in the MA program, but not both.

Credits: 1 Type: Course

BETH 501 History & Methodology for Bioethics

COM, Bioethics

This course develops the philosophical foundations of bioethics. The course will be a mixture of lectures and discussion, and will center on key texts of Western moral philosophy by Mill, Kant, and Aristotle, along with selections from other contemporary theorists.

Credits: 3 Type: Course

BETH 502 Introduction to Bioethics

COM, Bioethics

This course examines how advances in medicine have shaped new questions and challenges for ethics. It will explore the moral and social complexities that demonstrate the essential role of bioethics in 21st century health care.

Credits: 3 Type: Course

BETH 503 Religious Perspectives and Bioethics (E)

COM, Bioethics

This elective course introduces students to the communities, practices, values, texts and beliefs of selected religious traditions with a focus on their bioethical implications.

Credits: 3 Type: Course

BETH 504 Diversity, Culture and Bioethics

COM, Bioethics

This course explores the role of human and cultural variation in health and illness. It examines the intersection between disability, race, gender, sexual orientation, diverse spiritual beliefs, and medical practice.

Credits: 3 Type: Course

BETH 505 Bioethics and Public Policy

COM, Bioethics

This course will introduce students to issues of marginalization in American health care and key ethical issues in national and international public health systems and policies.

Credits: 3 Type: Course

BETH 506 Exploring the Foundations of Bioethics

COM, Bioethics

This course will provide a foundational base of knowledge that will demonstrate the need for skills in bioethics and the medical humanities in everyday doctoring.

Credits: 2 Type: Course

BETH 507 Clinical Dilemmas in Bioethics

COM, Bioethics

This course will enhance students' skills in ethical decision-making by applying those skills to actual cases encountered in the clinical setting. Students may not earn credit for both BETH 507 and 508.

Credits: 3 Type: Course

BETH 508 Clinical Topics in Bioethics

COM, Bioethics

This course will demonstrate the value of bioethics in clinical settings. It will explore ethical challenges that clinicians face in their work and provide opportunities for students to shadow health care practitioners in various settings. Students may not earn credit for both BETH 507 and BETH 508.

Credits: 3 Type: Course

BETH 509 Independent Study: Core Replacement

COM, Bioethics

This independent study opportunity enables students to complete one of the required courses at a time when it is not offered as a group class.

Prereq: Permission of the Department Chair

Credits: 3 Type: Independent Study

BETH 510 Selected Topics (E)

COM, Bioethics

This elective course explores various topics and issues in bioethics as identified by the Bioethics Department. May be repeated for credit up to a maximum of 12 credits.

Prereq: Permission of department chair.

Credits: 3 Type: Course

BETH 511 Bioethics & Globalization (E)

COM, Bioethics

This course explores global health care and bioethical issues, surveys national health care plans from universal coverage to laissez-faire approaches. It explores providing health care in areas of severe poverty, focusing on hunger and malnutrition, malaria and HIV/AIDS.

Credits: 3 Type: Course

BETH 512 Environmental Quality, Human Health & Bioethics (E)

COM, Bioethics

This course explores the inter-relationship between environmental problems and human health, focusing on the implications for bioethics, the practice of medicine, health care, and public policy.

Credits: 3 Type: Course

BETH 514 Death and Dying: Social and Ethical Factors (E)

COM, Bioethics

The experience of dying has changed profoundly as medical technologies have been able to prolong life and stave off death. This course will examine the consequences of modernization and medicalization of the dying process for patients, loved ones, providers, and the broader society.

Credits: 3 Type: Course

BETH 515 Bioethics and the Law (E)

COM, Bioethics

This course explores the relationship between bioethics and the law. Selected legal cases will strategically touch upon reproduction, end-of-life care, doctor-patient relationships, standards of care, new technologies, death, transplantation, and explore research ethics and regulation.

Credits: 3 Type: Course

BETH 516 Pediatric Ethics (E)

COM, Bioethics

This course will focus on the ethical issues that arise in pediatric medicine during the diagnosis, decision-making and treatment of infants, children and adolescents as well as elements of philosophical ethics.

Credits: 3 Type: Course

BETH 517 Passive Ethics: Suffering, Futility, and Death (E)

COM, Bioethics

Most traditional discourse regarding ethics deals with the discussion and adjudication of the actions taken by an individual. This course will focus on the individual or group that is "acted upon" by those who make decisions and take actions. In particular, the course will look at the meaning of suffering by investigating how it has been defined and how it impacts medical decision making. This course will also use a variety of methods to understand how conflict develops when either physicians or families declare that care is "futile." Finally, it will pay close attention to decision making when death is imminent.

Credits: 3 Type: Course

BETH 518 Social and Ethical Transformations in Bioethics (E)

COM, Bioethics

Medicine is a social institution. The shape of healthcare delivery, the medical profession, and knowledge about the body, all emerge through a collaboration of medicine and society. This course will explore these connections in the past, present, and future.

Credits: 3 Type: Course

BETH 519 Film and Creative Imagination in Bioethics (E)

COM, Bioethics

This course will stimulate creative imagination of students through the craft of filmmaking. It will examine how films create and convey meanings that are relevant to understanding the human condition and issues that loom large in the practice of medicine.

Credits: 3 Type: Course

BETH 521 Social Justice, Bioethics & the Practice of Medicine (E)

COM, Bioethics

This course will explore the social factors which underlie and shape the experiences of illness and health. It will focus on the social organization of medical care and how health and access to medical care are variably attained by different groups.

Credits: 3 Type: Course

BETH 522 Professional Bioethics (E)

COM, Bioethics

This elective course provides students with the opportunity to receive intensive professional development regarding current research in bioethics through participation in an academic conference and mentoring from faculty.

Prereq: Permission of instructor. May be repeated for credit up to a maximum of three credits.

Credits: 1 Type: Course

BETH 523 Bioethics with Standardized Patients

COM, Bioethics

Physicians face challenging ethical situations everyday. This elective will provide students with practical experience in discussing difficult ethical situations with standardized patients.

Credits: 3 Type: Course

BETH 525 Research Ethics (E)

COM, Bioethics

This course explores key ethical issues in the history, funding, design, conduct, and publishing of biomedical research.

Credits: 3 Type: Course

BETH 529 Independent Study (E)

COM, Bioethics

This independent study opportunity enables students to pursue an interest in bioethics with an instructor who has that specific expertise.

Prereq: Permission of department chair. May be repeated for credit under different topics for a maximum of 6 credits.

Credits: 3 Type: Independent Study

BETH 550 Bioethics Final Project

COM, Bioethics

This course allows students to pursue a bioethical issue of special interest. Students will complete the default project type unless they petition the Bioethics chair for a variation.

Prereq: Minimum of 15 bioethics credit hours and approval of the department chair. May be repeated for credit up to a maximum of six credits.

Credits: 6 Type: Independent Study

BIOS 503 Histology

COB, Biosciences

Students will study the chemical and molecular structure of the eukaryotic cell as well as its basic functions, with emphasis on cell membrane structure and function. Students will then apply the cellular level of biology to the study of tissues and their structure and function, exploring similarities and differences in the tissues that make up each of the body's major systems. Tissue identification and identification of parts of tissues and organs at the microscopic level will be studied using slides presented during lectures and incorporated into the exams.

Credits: 3 Type: Course

BIOS 505 Human Physiology I

COB, Biosciences

This course is a two-semester period of learning utilizing classroom lectures and discussions, and assignments. Upon completion of the course, the participants will be able to describe components of the body systems, including cardiovascular, renal, and respiratory; and to explain how each system functions and how the various physiological systems interact to maintain homeostasis.

Credits: 3 Type: Course

BIOS 506 Human Physiology II

COB, Biosciences

This is the second half of a two-semester course utilizing classroom lectures, discussions and assignments. Upon completion of this course, participants will be able to describe the components of the body systems, including neural, gastrointestinal, endocrine, and reproductive, and to explain how each system functions and how the various physiological systems interact to maintain homeostasis.

Prereq: BIOS 505.

Credits: 3 Type: Course

BIOS 508 Human Genetics (E)

COB, Biosciences

This course provides a study of heredity principles and genome variation in relation to the inheritance of human disease. Aspects of molecular, developmental, and immune-genetics will also be introduced.

Credits: 3 Type: Course

BIOS 509 Research Design and Protocol I

COB, Biosciences

Introduction to Epidemiology is a multi-faced course designed to broadly educate graduate students on the practical aspects of the discipline of epidemiology and its associated applications to public health, patient-based research study methodologies and designs, and general principles of biomedical statistics used in the medical literature.

Credits: 3 Type: Course

BIOS 513 Biochemistry

COB, Biosciences

This course will provide students with the foundations of information regarding the basic principles associated with biochemistry. Topics covered will include protein structure, thermodynamics, mechanisms of enzyme action and intermediary metabolism.

Credits: 3 Type: Course

BIOS 514 Molecular Biology

COB, Biosciences

This course will provide a foundation of basic principles of molecular biology. The topics to be covered include basic molecular genetic mechanisms, internal organization and regulation of the cell, and cell function within tissues and organisms. Successful completion of the course will enable students to initiate independent study and participate in upper-level courses in the biosciences.

Credits: 3 Type: Course

BIOS 516 Immunology

COB, Biosciences

This course includes lectures on the mechanisms of humoral and cellular immunity. Material will cover characteristics of antigens, antibodies and their interactions; ontogeny, immune responsiveness, hypersensitivity and immunologic tolerance.

Credits: 3 Type: Course

BIOS 517 Human Embryology & Developmental Biology (E)

COB, Biosciences

This elective will examine early human development and the fetal-maternal relationship, including gametogenesis, fertilization, implantation, the establishment of the basic embryonic body plan, placental formation and the morphological changes that occur during the development of the various systems of the human embryo and fetus. Genetic factors in development will be discussed, including signaling factors and morphogenetic proteins. Body systems to be discussed include integumentary, nervous, sensory, head and neck, cardiovascular, respiratory, digestive, and urogenital. Limb development will be examined as well as aspects of fetal physiology. Attention will be given to causes, mechanisms, and patterns of developmental disorders.

Credits: 3 Type: Course

BIOS 518 Microbiology

COB, Biosciences

Microbiology is the study of living organisms that are usually too small to be seen with the unaided eye, including organisms such as bacteria, fungi, algae, and protozoa. Microbiology also includes the study of viruses and other acellular infectious agents. A major theme of this course is the relationship between microorganisms and humans. This relationship includes the harmful effects of microorganisms, such as human disease and food spoilage, as well as the beneficial effects of microbes, such as the use of microorganisms in modern biotechnology, biofuel production, and bioremediation.

Credits: 3 Type: Course

BIOS 519 Topics in Human Embryology

COB, Biosciences

Designed to provide graduate students with insight into the important correlation between human development anatomy and clinical gross anatomy. The course will cover development of all of the systems of the body. The fetus, placentation, birth and delivery will be dealt with. Major congenital malformations will be discussed in detail.

Credits: 3 Type: Course

BIOS 520 Research Seminar

COB, Biosciences

This seminar is designed for students enrolled in the research track of the biomedical sciences program. Students will give formal oral presentations of the research conducted for their master's degree and which will be published in the student's thesis. The presentations will be made to the members of the student's graduate advisory committee and other invited audience members (e.g., students and faculty). May be repeated for credit up to a maximum of three credits.

Credits: 1 Type: Course

BIOS 523 Anatomical Imaging & Diagnosis

COB, Biosciences

Provides graduate students with a clinically and scientifically relevant background in presently available methods for medical imaging and diagnostics. Imaging modalities will include plain radiography, computed tomography, magnetic resonance imaging, fluoroscopy and ultrasonography. Students will become acquainted with the function of the modalities as well as the best mode to choose for given anatomical regions and cases. The course will move through the relevant anatomy in much the same way as a human anatomy course after the initial foundation concerning the science behind the different modalities is laid.

Prereq: Instructor Permission

Credits: 3 Type: Course

BIOS 526 Topics in Histology

COB, Biosciences

Topics in Histology will provide graduate students with the opportunity to study and discuss, through selected case studies, pathological changes in normal tissues that relate to specific disease situations and to present their findings in the form of presentations to others in the course.

Credits: 3 Type: Course

BIOS 530 Found Teach & Learn I: Theory & Practice

COB, Biosciences

The purpose of the Foundations in Teaching and Learning I: Theory and Practice course is to provide graduate students with the requisite knowledge to effectively deliver educational materials to adult learners based on current best practices. Topics to be covered include basic learning theories, cognitive science and metacognition, pedagogy, new teaching methods and skills teaching. Students will learn approaches to basic curriculum design principles for lecture preparation, including development of effective learning objectives as well as formative and summative assessment strategies. Current literature pertaining to course topics will be reviewed and discussed throughout the course/semester. Approaches to medical education research will be discussed, including both qualitative and quantitative research design and inquiry.

Prereq: Permission of the instructor.

Credits: 3 Type: Course

BIOS 531 Found Teach & Learn II: Implement & Eval

COB, Biosciences

The purpose of this course is to apply the information presented in the Foundations in Teaching and Learning I: Theory and Practice course in the creation of presentation materials given to first year medical and graduate students. Students will be required to work with a faculty member to develop and present one lecture and associated learning objectives and test questions for a topic in embryology, histology, or gross anatomy. In addition, students will be expected to organize a representative course for one anatomical region, which may include relevant course material in embryology, histology, gross anatomy, and/or pathology at the graduate program level.

Prereq: Instructor Permission

Credits: 3 Type: Course

BIOS 533 Advanced Topics in Anatomy

COB, Biosciences

This elective is designed for students with interests in anatomical research and current anatomy topics in the literature. May be repeated once for credit for a maximum of two credits.

Prereq: Instructor Permission.

Credits: 1 Type: Course

BIOS 536 Comparative Vertebrate Anatomy I

COB, Biosciences

The purpose of the Comparative Anatomy course is to provide

graduate students with a perspective of anatomy based on the origin and comparative anatomy of the vertebrate body plan. In this course students will examine the various groups of vertebrates from an evolutionary perspective leading up to mammals. Each major system will be examined from this perspective as well, leading to an understanding of the mammalian body form as being a derivative of the sequential changes seen in the variations of the body forms of other vertebrate groups. A brief review of cladistics and ontogeny will also be covered.

Credits: 3 Type: Course

BIOS 537 – Comparative Vertebrate Anatomy II

COB, Biosciences

The purpose of this Comparative Anatomy course is to provide graduate students with an evolutionary perspective on modern human anatomy. An overview of the human body will be presented in the context of comparative anatomy and students will gain a deeper understanding of how the human body plan emerged, what aspects reflect basic principles of vertebrate and mammalian anatomy, and how these factors influence both basic science and clinical approaches to the study of the human body. A brief review of human evolution, early aspects of human development, and the biomechanics of bipedalism will also be covered.

Credits: 3 Type: Course

BIOS 570 Synthesis of Biosciences/Comp Exam

COB, Biosciences

This course provides integration, synthesis, and review of the biosciences content covered in the MS in Biomedical Sciences one-year track. Content will be provided in both didactic and on-line formats. There will be a comprehensive examination at the end of the course. One retest is allowed.

Credits: 3 Type: Course

BIOS 571 Scientific Seminar

COB, Biosciences

In this course, each student will prepare a seminar of approximately on a current research topic in the biomedical sciences and present the seminar. In addition, each student will be required to attend the seminars.

Credits: 3 Type: Course

BIOS 572 Independent Study with Focus in Hematological Genetics

COB, Biosciences

This course is designed for students to become knowledgeable in the area of hematological genetics. The course involves a review of basic Mendelian genetics, diagnostic testing and a survey of a broad spectrum of hematological diseases.

Prereq: Approval of the dean of the College of Biosciences.

Credits: 3 Type: Independent Study

BIOS 580 Research

COB, Biosciences

This course is for students enrolled in the research track of the biomedical sciences program. Students will conduct an original research project as approved and supervised by each student's advisory committee. May be repeated for credit up to a maximum of 45 credit hours.

Credits: 1 Type: Independent Study

BIOS 581 Biomedical Research (E)

COB, Biosciences

This elective provides students an opportunity to learn and/or improve research techniques in a laboratory setting. Students will be able to participate in the development of an individual project as part of a research team. May be repeated for credit up to three semesters for a maximum of 15 credit hours.

Prereq: GPA of 3.0 or higher.

Credits: 1 Type: Course

BIOS 590 Thesis

COB, Biosciences

Each student will write and defend a research thesis. The thesis will be based on original research.

Credits: 6 Type: Course

CLMD 300 Basic Science & Clinical Review

COM, D.O.

This is a required third year course designed to occur after the completion of all second year requirements and prior to the successful completion of COMLEX Level 1.

Credits: 4 Type: Course

CLMD 306 Clinical Management Review

COM, D.O.

This required course is taken at the beginning of the student's third year. It is a self-paced study and review to improve the student's knowledge in clinical medicine.

Not repeatable for credit.

Credits: 4 Type: Clerkship

CLMD 402 Health Care Mgt & Public Health Pol (E)

COM, D.O.

This elective provides the student with hands-on experience in healthcare management and/or health policy administration. Students will complete a clerkship in one of several health care and/or public health policy environments, which may include private or public hospitals and clinics, public health departments, public health agencies, professional societies, managed care organizations, health insurance firms, or others.

Credits: 4 Type: Clerkship

CLMD 403 Medical Informatics (E)

COM, D.O.

An elective clerkship experience designed to provide the student with resources, devices, and methods required to optimize the acquisition, storage, retrieval, and use of information in medicine. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 4 Type: Clerkship

CLMD 404 Integrative Medicine (E)

COM, D.O.

This elective clerkship has four main goals: 1) to present the underlying philosophy of integrative medicine; 2) to provide evidence on the effectiveness of select integrative medicine approaches; 3) to examine integrative medicine approaches for identified medical problems; and 4) to provide opportunities for students to observe practitioners of integrated and complementary medicine (CAM). Students will have opportunities for introspection about physician well-being and its importance to the delivery of healthcare to patients.

Credits: 4 Type: Clerkship

CLMD 405 Healthcare Improvement (E)

COM, D.O.

The purpose of this two-week elective is to introduce the student to advances in health care improvement and patient safety competencies important for the next generation of health professionals worldwide. This elective is offered online through the Institute for Healthcare Improvement.

Prereq: Successful completion of third year and approval by the Associate Dean for Clinical Education. May not be taken concurrently with another elective.

Credits: 2 Type: DS

CLMD 406 Clinical Management Review

COM, D.O.

This required course is taken at the beginning of the student's fourth year. It is a self-paced study and review to improve the student's knowledge in clinical medicine.

Credits: 4 Type: Clerkship

CLMD 407 Clinical Management Review II

COM, D.O.

This elective is a self-paced study and review month to improve the student's knowledge in clinical medicine. Repeatable for credit with permission.

Prereq: CLMD 406

Credits: 4 Type: Independent Study

COMLEX1 COMLEX 1

COM, D.O.

COMLEX 1 required for MSII to progress to MSIII status.

Credits: 0 Type: Independent Study

COMLEX2CE COMLEX 2CE

COM, D.O.

COMLEX 2CE required for graduation from DO program

Credits: 0 Type: Independent Study

COMLEX2PE COMLEX 2PE

COM, D.O.

COMLEX 2PE required for graduation for DO program

Credits: 0 Type: Independent Study

COMSAE1 COMSAE 1

COM, D.O.

Comprehensive Osteopathic Medicine Student Accessment Examination. Participation and passing score necessary for MSII students to progress into clinical clerkships (MSIII).

Credits: 0 Type: Independent Study

CSA Clinical Skills Assessment

COM, D.O.

This transcript notation represents the testing of second year medical student's communication/ interviewing skills, physical exam skills and integrated osteopathic clinical skills. Each component of the test comprises one-third of the assessment and each are weighted evenly. Students must pass all three components of the test to receive a satisfactory grade.

Credits: Non-credit, required Type: Course

CSA I Clinical Skills Assessment I

COM, D.O.

Credits: Non-credit, required Type: Course

CSA II Clinical Skills Assessment II

COM, D.O.

Credits: Non-credit, required Type: Course

CUM Ex I Cumulative Examination I

COM, D.O.

This cumulative examination is required at the completion of the first year of academic study and must be passed to progress to the second year of study. This exam is recorded at the second semester of the first year with a grade value of Honors, Satisfactory or Unsatisfactory.

Credits: Non-credit, required Type: Course

ECE 001 Early Clinical Experience

COM, D.O.

This is a non-credit, required course designed to provide students with early clinical exposure during a four-hour shadowing experience completed in the greater Kansas City metropolitan area. Students might be eligible for an exception to the ECE 001 requirement if they have significant prior experience working within

a clinical setting. Examples include Nursing, Physical Therapy or other medical degree; EMT Certification, etc. Students should see the Associate Dean of Curriculum Affairs for additional information.

Credits: 0 Type: Independent Study

EMED 220 Clinical Care Prac - Emerg Med (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of Emergency Medicine. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician. Graded P/F.

Credits: 2 Type: Independent Study

EMED 401 Emergency Medicine (R)

COM, D.O.

This fourth-year required clerkship is designed to provide students with clinical exposure, observation and training to further their understanding of emergency medicine. Students focus on the care, treatment and diagnosis of a variety of acute and sub-acute problems in the adult emergency medicine patient. Highlights how to stabilize and correctly triage critically ill patients to prepare for more advanced study of the discipline. Specific goals, learning objectives and reading assignments are outlined in the required curriculum modules.

Credits: 4 Type: Clerkship

EMED 402 Emergency Medicine (E)

COM, D.O.

This elective provides students interested in pursuing a career in emergency medicine increased responsibilities including assisting in procedure workshops and conferences.

Prereq: Required core electives or EMED 401, SURG 301, SURG 302

Credits: 4 Type: Clerkship

EMED 402s Emergency Medicine (S)

COM, D.O.

This elective provides students interested in pursuing a career in emergency medicine increased responsibilities including assisting in procedure workshops and conferences.

Prereq: Required core electives or EMED 401, SURG 301, SURG 302.

Credits: 4 Type: Clerkship

EMED 404 Wilderness Medicine (E)

COM, D.O.

This elective provides students an opportunity to gain field experience in types of medical emergencies and clinical problems unique to rural and wilderness communities, including trauma, survival hypothermia, altitude, frostbite, heat illness, lightning, and river rescue.

Prereq: Required core electives or EMED 401, SURG 301, SURG 302 and Advanced Disaster Life Support

Credits: 4 Type: Clerkship

EMED 404s Wilderness Medicine (E)

COM, D.O.

This elective provides students an opportunity to gain field experience in types of medical emergencies and clinical problems unique to rural and wilderness communities, including trauma, survival hypothermia, altitude, frostbite, heat illness, lightning, and river rescue.

Prereq: Required core electives or EMED 401, SURG 301, SURG 302 and Advanced Disaster Life Support certification.

Credits: 4 Type: Clerkship

EMED 499 Emergency Medicine Research (E)

COM, D.O.

This elective provides students an opportunity to gain field experience in types of medical emergencies and clinical problems unique to rural and wilderness communities, including trauma, survival hypothermia, altitude, frostbite, heat illness, lightning, and river rescue.

Prereq: Required core electives or EMED 401, SURG 301, SURG 302 and Advanced Disaster Life Support certification.

Credits: 1 Type: Independent Study

FMED 104 Sports Medicine (E)

COM, D.O.

This elective course introduces the student to medicine as it relates to the athlete. Students will learn to complete a sports history and physical and will be able to identify and treat basic sports injuries of the head, neck, extremities and torso. Sports medicine as it applies to the child and adolescent, the geriatric patient and the female athlete. Ergogenic aids, drug use and doping methods will also be discussed.

Credits: 0.5 Type: Course

FMED 125 Basic Disaster Life Support (E)

COM, D.O.

This elective course is designed to provide students with introductory training for disasters requiring medical preparedness. This training complies with national guidelines to standardize emergency response training nationally and to strengthen the nation's public health system. This course is a prerequisite for FMED 126.

Credits: 0.5 Type: Course

FMED 210 Sports Medicine

COM, D.O.

This course will introduce medical students to advanced concepts and practices of sports medicine.

Credits: 0.5 Type: Course

FMED 212 Comp & Alternative Medicine

COM, D.O.

The broad-based curriculum is designed to encompass the prominent types of Complementary and Alternative Medicine (CAM) likely to be encountered by modern day physician. May be taught as either a 0.5 or 1.0 semester credit offering.

Credits: 0.5 Type: Course

FMED 213 Advanced OMT Techniques

COM, D.O.

This elective offers students an opportunity to further develop skills in manipulative medicine by participating in lecture/lab experiences covering expanded usage of previously taught modalities as well as new modalities. The case presentation context will be used to further clinical application of OMM.

Credits: 0.5 Type: Course

FMED 220 Clinical Care Practicum - Family Med (E)

COM, D.O.

The Clinical Care Practicum is a clinical experience designed to provide shadowing opportunities for students to further observe skills learned in the first-year curriculum. These skills include taking a medical history, performing a physical exam, and exposure to the business side of medicine in a private practice.

Credits: 2 Type: Independent Study

FMED 222 Clinical Care Pract - Community Med (E)

COM, D.O.

Early Clinical Experiences in Preventive and Community Medicine

Credits: 1 Type: Independent Study

FMED 225 Advanced Disaster Life Support (E)

COM, D.O.

This elective course is designed to provide students with advanced training for disasters requiring medical preparedness. The training complies with national guidelines to standardize emergency response training nationally and strengthen the nation's public health system. This course allows students to demonstrate competencies in casualty decontamination, specified essential skills, and mass casualty incident information systems/technology applications.

Prereq: FMED 125.

Credits: 1 Type: Course

FMED 226 Adv Disaster Life Support Instructor (E)

COM, D.O.

This elective course provides students with advanced disaster life support training and additional training to become an instructor for ADLS. The course includes instruction in coordinating and conducting rotation stations. This training complies with national guidelines to standardize emergency response training and strengthen the nation's public health system.

Prereq: FMED 225.

Credits: 0.5 Type: Course

FMED 230 Case Presentations in Clinical Med (E)

COM, D.O.

This elective course will focus on synthesizing information taught during the first and second years of the COM curriculum, with an emphasis on clinical medicine. The top 10 diagnoses seen in primary care, as well as the top five inpatient admitting diagnoses, will be covered. Students will practice obtaining medical history, documenting, and utilizing evidence-based, cost-effective diagnostic strategies in order to arrive at a treatment plan.

Prereq: Permission of instructor.

Credits: 1.5 Type: Course

FMED 301 Family Medicine I

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to further their understanding of family medicine. Two themes are addressed during this first of two family medicine clerkships: 1) prevention and wellness, and 2) communities and populations. Students focus on ambulatory management of common, acute, and chronic medical problems within a primary care setting to prepare for more advanced study of the discipline.

Credits: 4 Type: Clerkship

FMED 302 Family Medicine II

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to further their understanding of family medicine. The primary theme addressed during this family medicine clerkship is acute and chronic illness. Students focus on ambulatory management of common acute and chronic medical problems within a primary care setting to prepare for more advanced study of the discipline.

Credits: 4 Type: Clerkship

FMED 311 International Community Medicine (E)

COM, D.O.

This elective clerkship consists of participation in a medical mission to countries such as Kenya, Guatemala, the Dominican Republic, etc. The clerkship consists of predeparture didactic review sessions, country-specific medical language review, sessions regarding travel safety, and prevalence of disease/illnesses in the destination countries. In the country, time is spent providing supervised medical care.

Prereq: 1) OMS III or OMS IV status; 2) Knowledge of the destination country language is helpful but not required. May be repeated for up to 16 hours of credit.

Credits: 0.5 - 4 Type: Clerkship

FMED 401 Family Medicine Clinic I (R)

COM, D.O.

This fourth-year required clerkship is designed to provide students with clinical exposure, observation and training to further their understanding of rural or underserved primary care. Students focus on continuity of patient care and ambulatory management of common acute to chronic medical problems within a rural or underserved primary care setting to prepare for more advanced study of the discipline.

Credits: 4 Type: Clerkship

FMED 402 Rural/Underserved Primary Care II (E)

COM, D.O.

This clerkship provides the learner an opportunity to explore the challenges and solutions for providing medical care to populations which do not have ready access to routine/specialist medical care. Students focus on continuity of patient care and ambulatory management of common acute to chronic medical problems with a rural or underserved primary care setting.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 403 Core Family Medicine Clinic III

COM, D.O.

This clerkship provides the learner an opportunity to explore the challenges and solutions for providing medical care to populations which do not have ready access to routine/specialist medical care. Students focus on continuity of patient care and ambulatory management of common acute to chronic medical problems with a rural and underserved primary care setting.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 404 Gerontology (E)

COM, D.O.

This elective introduces the student to the ambulatory and residential medical care of the older adult population. The clerkship experience should represent office-based care and residential-based care facilities of the geriatric population.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 404s Gerontology (S)

COM, D.O.

This elective introduces the student to the ambulatory and residential medical care of the older adult population. The clerkship experience should represent office-based care and residential-based care facilities of the geriatric population.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 405 Sports Medicine (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in sports medicine.

Credits: 4 Type: Clerkship

FMED 405s Sports Medicine (S)

COM, D.O.

This clerkship is a sub-internship in sports medicine that introduces the student to medicine as it relates to the athlete. Students will learn to complete a sports history and physical and will be able to identify and treat basic sports injuries of the head, neck, extremities and torso. Sports medicine as it applies to the child and adolescent, the geriatric patient and the female athlete will be covered. Ergogenic aids, drug use and doping methods will be discussed.

Credits: 4 Type: Clerkship

FMED 406 General Family Medicine (E)

COM, D.O.

This elective clerkship provides students with clinical exposure, observation, and training to further their understanding of family medicine. The primary theme addressed during this clerkship will provide an opportunity for the student to demonstrate more definitive diagnoses and plans on problems that commonly present to the family practice setting.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 406s General Family Medicine (S)

COM, D.O.

This elective clerkship provides students with clinical exposure, observation, and training to further their understanding of family medicine. The primary theme addressed during this clerkship will provide an opportunity for the student to demonstrate more definitive diagnoses and plans on problems that commonly present to the family practice setting.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 408 Community Medicine (E)

COM, D.O.

This clerkship introduces students to the closely related fields of family and community medicine. Students will increase their competence in diagnosis and treatment of diseases presenting in ambulatory care as well as demonstrate the integration of clinical preventive medicine into the work-up of the ambulatory patient.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 409 Primary Care (E)

COM, D.O.

In this elective clerkship, the student will work with a physician in a family medicine setting, both inpatient and outpatient, and experience from the provider's viewpoint what it is to provide a "medical home" for the patients from birth to death.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 409s Primary Care (S)

COM, D.O.

In this elective clerkship, the student will work with a physician in a family medicine setting, both inpatient and outpatient, and experience from the provider's viewpoint what it is to provide a "medical home" for the patients from birth to death.

Prereq: Successful completion of FMED 301 and FMED 302

Credits: 4 Type: Clerkship

FMED 410 Physical Medicine & Rehabilitation (E)

COM, D.O.

This clerkship will provide students with exposure to many areas of rehabilitation either in an acute inpatient unit or through outpatient services. Students will be exposed to a variety of experiences and may be able to customize the clerkship depending upon interests. Experiences may include physical therapy, occupational therapy, speech therapy, recreational therapy, psychology, wound care, and other rehabilitation-related components.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 410s Physical Medicine & Rehabilitation (S)

COM, D.O.

This clerkship will provide students with exposure to many areas of rehabilitation either in an acute inpatient unit or through outpatient services. Students will be exposed to a variety of experiences and

may be able to customize the clerkship depending upon interests. Experiences may include physical therapy, occupational therapy, speech therapy, recreational therapy, psychology, wound care, and other rehabilitation-related components.

Prereq: Successful completion of FMED 301 and FMED 302.

Credits: 4 Type: Clerkship

FMED 411 International Health (E)

COM, D.O.

This elective clerkship consists of participation in a medical mission to countries such as Kenya, Guatemala, the Dominican Republic, etc. The clerkship consists of predeparture didactic review sessions, country-specific medical language review, sessions regarding travel safety, and prevalence of disease/illnesses in the destination countries. In country time is spent providing supervised medical care.

Prereq: 1) OMS III or OMS IV status; 2) Knowledge of the destination country language is helpful but not required. May be repeated for up to 16 hours of credit.

Credits: 4 Type: Clerkship

FMED 499 Family Medicine Research (E)

COM, D.O.

Student research in an area of interest within family medicine that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

GENE 100 Fundamentals of Genetic Analysis (E)

COM, D.O.

This elective course provides additional study for students with limited background in genetic analysis as well as providing substantive review for students seeking to refresh and enhance an understanding of analysis applications.

Credits: 0.5 Type: Course

GENE 199 Medical Genetics Research (E)

COM, D.O.

This elective course provides students an opportunity to learn and/or improve research techniques, particularly molecular techniques, in a supervised setting. Students will be able to develop an individual project as part of a research team. Credit value is variable from 2-5 semester credits. May be repeated for credit up to a maximum of 15 credits.

Prereq: Instructor Permission from: Adkison, Linda

Credits: 2 Type: Independent Study

GENE 210 Dysmorphology

COM, D.O.

This elective course builds on the skills and knowledge gained during the first two years of medical training by emphasizing a stronger understanding of dysmorphology. The course will provide an introduction into dysmorphology assessment; an overview of common diagnoses, management, and treatment; and development of differential diagnoses.

Credits: 1 Type: Course

GENE 211 Clinical Genetics (E)

COM, D.O.

This elective course provide a systematic and comprehensive review of the application of genetics to commonly studied genetic diseases and syndromes encountered in medical training.

Credits: 0.5 Type: Course

GENE 213 Advanced Topics in Genetics (E)

COM, D.O.

This elective is designed for students interested in genetic research and current topics in the literature. May be repeated for a maximum of 4 credits.

Prereq: Permission of the instructor.

Credits: 1 Type: Course

GENE 299 Medical Genetics Research (E)

COM, D.O.

This elective course provides students an opportunity to learn and/or improve research techniques, particularly molecular techniques, in a supervised setting. Students will be able to develop an individual project as part of a research team. Credit value is variable from 2-5 semester credits. May be repeated for credit up to a maximum of 15 credits.

Prereq: Instructor Permission from: Adkison, Linda

Credits: 2 Type: Independent Study

GENE 401 Clinical Topics in Genetics (E)

COM, D.O.

This elective provides students an opportunity to investigate genetic topics that may be encountered in various specialties and practice. The course is tailored to the needs of the student after discussion with the instructor. This is primarily an on-line course. Permission required.

Prereq: Completion of all required third year clerkships.

Class size: 5 per month

Credits: 2.5 Type: Independent Study

GENE 499 Medical Genetics Research (E)

COM, D.O.

This elective clerkship allows for student research in the area of medical genetics.

Prereq: Permission of sponsoring faculty member or preceptor, and completion and submission of a research elective registration form to OCCE 90 days in advance of proposed start date.

Credits: 1 Type: Independent Study

GLMD 100 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 105 Global Health Outreach (E)

COM, D.O.

This elective provides didactic review sessions and instruction, including understanding of pre-post travel clinical consultation, information regarding travel safety and prevalence of disease/illness in a specific country, in preparation and application for a medical mission to that country to provide supervised medical care. May be repeated for up to 8 credits.

Prereq: Must be in good academic standing at KCU and complete the application process for each outreach.

Credits: 0.5 - 4 Type: Course

GLMD 200 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 201 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 205 Global Health Outreach (E)

COM, D.O.

This elective provides didactic review sessions and instruction, including understanding of pre-post travel clinical consultation, information regarding travel safety and prevalence of disease/illness in a specific country, in preparation and application for a medical mission to that country to provide supervised medical care. May be repeated for up to 8 credits.

Prereq: Must be in good academic standing at KCU and complete the application process for each outreach.

Credits: 0.5 - 4 Type: Course

GLMD 300 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 301 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 305 Global Health Outreach (E)

COM, D.O.

This elective provides didactic review sessions and instruction, including understanding of pre-post travel clinical consultation, information regarding travel safety and prevalence of disease/illness in a specific country, in preparation for a medical mission to that country to provide supervised medical care. May be repeated for credit up to a maximum of 6 credits.

Prereq: Must be in good academic standing at KCU and complete the application process for each outreach.

Credits: 0.5 Type: Course

GLMD 400 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 401 Global Health Track (E)

COM, D.O.

This honors track program introduces students to principles of

global health, the burden of disease in developing countries, comparison of health systems, and global ethics. Selection for the Honors Track in Global Medicine is by application.

Prereq: Application for admission to the Global Medicine track. Selection is competitive and limited to 12-15 students. May be repeated for credit up to 8 credits.

Credits: 1 Type: Course

GLMD 405 Global Health Outreach (E)

COM, D.O.

This elective provides didactic review sessions and instruction, including understanding of pre-post travel clinical consultation, information regarding travel safety and prevalence of disease/illness in a specific country, in preparation for a medical mission to that country to provide supervised medical care. May be repeated for credit up to a maximum of 6 credits.

Prereq: Must be in good academic standing at KCU and complete the application process for each outreach.

Credits: 0.5 Type: Course

IDIS 001 COMLEX I Preparation

COM, D.O.

This is a mandatory course for students who are unsuccessful in passing COMLEX Level I. Students focus on the study of osteopathic medical knowledge and clinical skills considered essential for osteopathic generalist physicians to practice medicine without supervision. Course includes consultation with the Director of Learning Enhancement to review course objectives and help construct an individualized study plan including the use of reading materials, questions, videos and/or audio materials.

Credits: 1 Type: Independent Study

IDIS 002 COMLEX II-CE Preparation

COM, D.O.

This is a mandatory course for students who are unsuccessful in passing COMLEX Level II-CE. Students focus on the study of osteopathic medical knowledge and clinical skills considered essential for osteopathic generalist physicians to practice medicine without supervision. Course includes consultation with the Director of Learning Enhancement to review course objectives and help construct an individualized study plan, including use of reading materials, questions, and videos and/or audio materials.

Credits: 1 Type: Independent Study

IDIS 002p NBOME II-PE Preparation

COM, D.O.

This is a mandatory course for students who are unsuccessful in passing COMLEX Level 2-PE. Students are required to return to Kansas City to receive one-on-one instruction from a clinical faculty member as approved by the Provost and Dean of the College of Osteopathic Medicine. This course is graded P/F based on passing of the COMLEX Level 2-PE exam and meets no clinical graduation requirement. Credit value is variable depending on the individualized plan of study and required time on task. Credit is assigned based on increments of 1.0 credit or 37.5 contact hours. Students should refer to the Student Handbook for additional details.

Credits: 1 Type: Independent Study

IDIS 003 Osteopathic Clinical Skills

COM, D.O.

This clerkship is designed for students who are unsuccessful in passing a clinical clerkship. Students focus on the functional knowledge and application of the multiple facets of osteopathic clinical skills necessary to perform a competent diagnostic evaluation and subsequent treatment of patients.

Credits: 5 Type: Independent Study

IDIS 100 Independent Study (E)

COM, D.O.

This elective is for students who have been identified by the administration to pursue a special, directed course of study during a semester.

Prereq: Recommendation of the dean of the COB or COM.

Credits: 6 Type: Independent Study

IDIS 112 Bioethics in Action: The OSCE Experience II (E)

COM, D.O.

Physicians face challenging ethical situations every day. This elective will provide students with practical experience in communicating about difficult issues in complex scenarios, including two bioethics OSCE experiences that will explore psychosocial and emotional issues that surround HIV/AIDS and domestic violence.

Credits: 1 Type: Course

IDIS 120 Introduction to Research (E)

COM, D.O.

The purpose of this elective is to provide an overview of research design and its application to research questions. This overview consists of understanding the preliminary considerations that go into selecting a quantitative, qualitative, or mixed methods research design. These include knowing the definition for these different approaches, considering philosophical worldviews, reviewing the literature, understanding the use of theory, anticipating ethical issues, and developing writing strategies. The course will include the process of research as it relates to each approach. This process includes writing an introduction, specifying a purpose statement, and developing research questions and/or hypotheses. The course will also discuss the methods and procedures for quantitative, qualitative, and mixed methods studies.

Credits: 2 Type: Course

IDIS 121 Intro Stats & Quantitative Analysis (E)

COM, D.O.

The purpose of this course is to provide an introduction to statistics used in research. The course will provide students with a foundation of practical skills in statistics focusing on data collection, management and analysis. More specifically, the course will cover descriptive statistics, inferential statistics, hypothesis testing, correlation techniques, statistics used in epidemiology and statistics used in decision making. This course includes laboratory time that is dedicated to the effective use of PASW (formally SPSS). Students will be expected to analyze data in the lab and accurately interpret output.

Credits: 2 Type: Course

IDIS 122 Introduction to Clinical Research (E)

COM, D.O.

This course provides students with an advanced knowledge and experience in the application of the practical aspects required to achieve success in conducting human research. May be repeated for credit up to a maximum of 6 credits.

Credits: 1.5 Type: Course

IDIS 197 Medical Education Research (E)

COM, D.O.

This elective is intended to provide a framework within which medical students may engage in biomedical science research projects or a variety of activities related to such research at KCU or other approved institution(s) and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of the appropriate college is required. May be repeated for credit.

Credits: 1 Type: Course

IDIS 198 Biomedical Science Research (E)

COM, D.O.

This elective is intended to provide a framework within which medical students may engage in biomedical science research

projects or a variety of activities related to such research at KCU or other approved institution(s) and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of the appropriate college is required. May be repeated for credit.

Credits: 1 Type: Course

IDIS 199 Social Medicine Research (E)

COM, D.O.

This course is intended to provide a framework within which MSI students may engage in behavioral science research projects or a variety of activities related to such research at KCU or other approved institution(s) for academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of the appropriate college is required. May be repeated for credit.

Prereq: Instructor Permission

Credits: 1 Type: Course

IDIS 201 Spirituality in Medicine (E)

COM, D.O.

This elective course exemplifies the Osteopathic integration of "Body, Mind and Spirit." Students will be exposed to a variety of religious beliefs, often by practitioners of those faiths. Treatment considerations of the hospitalized patients and the dying patient will be discussed in small groups and with selected chaplains from the area. Students will also have an opportunity to explore their own belief system. For the interested students, optional activities such as a sweat lodge, a meditation, a retreat, and following a chaplain on rounds may be available.

Credits: 1 Type: Course

IDIS 202 Spanish Medical Terminology (E)

COM, D.O.

This elective course is designed for those with little to no previous experience with the Spanish language and for those who wish to improve their medical Spanish skills. It is based on the concept of using simple conversations to facilitate a health care interaction and using repetition to learn a new language. Previous knowledge in Spanish is helpful, but not essential.

Credits: 1 Type: Course

IDIS 203 Health Care Mngt & Public Health Policies (E)

COM, D.O.

This elective course provides an introduction to health care management and public health policies in the health care field including areas of managed care, quality care issues, cost considerations, and management and leadership practices. Students are introduced to the management languages of accounting, economics, finance, human resources, information technology, law, marketing, and management.

Credits: 0.5 Type: Course

IDIS 204 Biomolecular Clinical Med Journal Club

COM, D.O.

Elective course offering open to MSI and MSII students that will focus on recent journal articles that link clinical cases with relevant, interesting biomolecular science publications.

Credits: 1 Type: Course

IDIS 209 Medical Spanish II

COM, D.O.

This is an advanced course for students who have completed IDIS 202 or who have equivalent training and experience with medical Spanish.

Prereq: IDIS 202 or Instructor Permission

Credits: 1 Type: Course

IDIS 212 International Medicine

COM, D.O.

This broad based curriculum is designed to provide a review and understanding of common types of medical and community health issues likely to be encountered in developing countries around the globe.

Credits: 0.5 Type: Course

IDIS 213 Medicine and Law (E)

COM, D.O.

This course will provide the basic doctrines and principles of the law to serve as a foundation for legally sound medical practice. It will include a comprehensive coverage of the dynamics of the law and the application to the healthcare professional issues and recent developments in law related to healthcare delivery. Literature related to all aspects of life with special reference to health and healthcare will include throughout the course. Literary narrative writing will be read and discussed to demonstrate its relation to the practice of medicine.

Credits: 1.5 Type: Course

IDIS 221 Leadership in Health Promotion

COM, D.O.

The purpose of this elective is for students to define a group within the University community who could improve their state of health and then to design and implement a program that will impact this group. The student will demonstrate skills in leadership, organization and self-direction. May be repeated for credit up to three times for a maximum of 1.5 credits.

Credits: 0.5 Type: Course

IDIS 223 Cultural Competency (E)

COM, D.O.

This elective course examines our own culture--the latroculture--and preconceived notions about cultures, races and other groups. The content will identify features that make cultures unique while exploring the commonalities among cultures. The course will teach students new skills to appreciate all cultures. 1 semester credit. May be repeated for a maximum of 2 credits.

Credits: 1 Type: Course

IDIS 224 American Sign Language (E)

COM, D.O.

This is an introductory elective course to familiarize the medical student with a foundational working knowledge of American Sign Language with a strong emphasis on the medical sign language skill acquisition.

Credits: 1 Type: Course

IDIS 225 Disaster Medical Services for Medical Professionals

COM, D.O.

This course is designed to introduce medical students and faculty to the unique challenges to preparing for and providing medical services in a disaster area. The course format will include didactic sessions; on-line courses and small group projects. Curriculum will include preparedness and mitigation; Strategic National Stockpile; Incident Command; National Incident Management System; Hurricane Katrina; Disaster Medical Assistant Teams and public health issues/challenges.

Credits: 1 Type: Course

IDIS 227 Moral Dilemmas in Medicine--Health Care

COM, D.O.

This is an advanced seminar, offering an opportunity to explore contemporary ethical issues in medicine and bioscience, such as genetic engineering. The course is offered collaboratively with the St. Paul's School of Theology. It provides a setting for cross-disciplinary collaborative learning, with medical students and ministry students working together on problems in bioethics - and learning from one another. It is designed especially for ministerial students considering specialized ministry in healthcare settings and/or serving on hospital ethics committees.

One of the predominant approaches to bioethics is the “case-study” approach. This course will make use of case-studies as a way to facilitate cross-disciplinary collaborative learning between ministerial and medical students. It will also include lectures, PowerPoint presentations, and small group discussions.

Credits: 1 Type: Course

IDIS 229 Human Simulator Concepts

COM, D.O.

This elective course allows students to use the human patient simulators (HPS) as they apply didactic material they have learned to the creation of a case scenario.

Prereq: One year of preclinical training.

Credits: 1 Type: Course

IDIS 235 BCLS Instructor Training

COM, D.O.

This elective course provides the training necessary for students to become qualified Basic Cardiac Life Support instructors. The instructive phase involves didactic and hands-on training. Participants provide BCLS instruction to other students to fulfill the course requirement.

Credits: 1 Type: Course

IDIS 250 Biostatistics for Medical Students (E)

COM, D.O.

This elective is designed to acquaint medical students with fundamental concepts in biostatistics. Successful completion of the course will improve a student’s ability to successfully read and interpret statistics used in biomedical research science. Available to MSI and MSII students

Credits: 0.5 Type: Course

IDIS 297 Medical Education Research (E)

COM, D.O.

This elective is intended to provide a framework within which medical students may engage in biomedical science research projects or a variety of activities related to such research at KCU or other approved institution(s) and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the individualized plan of study and required time on task. May be repeated for credit up to a maximum of 20 credits.

Credits: 1 Type: Course

IDIS 298 Biomedical Science Research (E)

COM, D.O.

This elective is intended to provide a framework within which medical students may engage in biomedical science research project or a variety of activities related to such research at KCU or other approved institution(s) and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the individualized plan of study and required time on task. May be repeated for credit up to a maximum of 20 credits.

Credits: 2 Type: Course

IDIS 299 Behavioral Science Research (E)

COM, D.O.

This elective course is intended to provide a framework within which MSII students may engage in behavioral science research projects or a variety of activities related to such research at KCU or other approved institution(s) for academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Permission of instructor required. Credit value is variable depending on the

individualized plan of study and required time on task. May be repeated for credit up to a maximum of 8 credits.

Prereq: Instructor Permission

Credits: 1 Type: Course

IDIS 301 Independent Study (E)

COM, D.O.

This elective is for student preparation for COMLEX level 2CE. Students focus on study of the osteopathic medical knowledge and clinical skills considered essential for osteopathic generalist physicians to practice medicine. The course includes intensive review of reading materials, questions, videos and/or audio materials as needed.

Prereq: Permission of the Associate Dean for Clinical Education.

Credits: 1 Type: Independent Study

IDIS 397 Medical Ed Research (E)

COM, D.O.

This elective provides a framework for students to engage in medical education research projects at KCUMB or other approved institution(s). Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship.

Prereq: Permission of instructor prior to registration. Repeatable for credit with approval.

Credits: 4 Type: Independent Study

IDIS 400 Clinical Independent Study (E)

COM, D.O.

This clerkship is designed to provide students with an opportunity for independent study in areas of medical education, clinical practice, research, investigational inquiry, or for COMLEX preparation. Investigational study projects under this number require the approval of the Executive Vice President of Academic and Medical Affairs, and Dean of the College of Osteopathic Medicine.

Credits: 1 Type: Independent Study

IDIS 497 Medical Ed Research (E)

COM, D.O.

This elective provides a framework for students to engage in medical education research projects at KCUMB or other approved institution(s). Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship.

Prereq: Permission of instructor prior to registration. Repeatable for credit with approval.

Credits: 4 Type: Independent Study

IMED 200 Hospice/Palliative Medicine (E)

COM, D.O.

This elective is designed to introduce the basic principles and concepts involved in the care of the terminally ill patient.

Prereq: Completion of first year of didactic studies. Not repeatable for credit.

Credits: 2.5 Type: Course

IMED 220 Clinical Care Prac - Internal Med (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of internal medicine. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

IMED 301 Internal Medicine I

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to better understand principles and practices of general internal medicine. Students focus on active participation in the care and management of patients to prepare for more advanced study of the discipline.

Credits: 4 Type: Clerkship

IMED 302 Internal Medicine II

COM, D.O.

This required clerkship provides a continuation of training initiated in IMED 301. Students will more actively participate in care and management of patients and engage in greater responsibility in patient care. Additional concepts of systems-based practice will be introduced to acquaint students with care of emergency patients and the role of physicians.

Credits: 4 Type: Clerkship

IMED 401 Cardiology (E)

COM, D.O.

This fourth-year clerkship provides students with clinical exposure, observation and training to further their understanding of cardiology. Students focus on the basic care, treatment and diagnosis of common cardiovascular illnesses in the adult patient to prepare for more advanced study of the discipline. Training emphasizes physician awareness, assessment, treatment, and acknowledgement of common cardiovascular conditions.

Credits: 4 Type: Clerkship

IMED 402 Pulmonary Medicine (E)

COM, D.O.

This elective clerkship provides students experience in diagnosing, treating and caring for patients with pulmonary diseases. Under supervision, students are expected to assist in the management of acute and chronic pulmonary disease.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 402s Pulmonary Medicine (S)

COM, D.O.

This sub-internship clerkship provides students with experience diagnosing, treating and caring for patients with pulmonary diseases. Under supervision, students are expected to assist in the management of acute and chronic pulmonary disease at a more advanced level than the elective offering of this same experience.

Prereq: Successful completion of IMED 302.

Credits: 4 Type: Clerkship

IMED 403 Gastroenterology (E)

COM, D.O.

This is an elective rotation providing clinical observation and training in gastroenterology.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 403s Gastroenterology (S)

COM, D.O.

This is a clerkship offered as a sub-internship in gastroenterology.

Credits: 4 Type: Clerkship

IMED 404 Infectious Diseases (E)

COM, D.O.

This elective clerkship exposes students to a wide variety of acute and chronic infectious disease problems with emphasis on diagnostic and therapeutic approaches.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 404s Infectious Diseases (S)

COM, D.O.

This sub-internship clerkship exposes students to a wide variety of acute and chronic infectious disease problems with emphasis on diagnostic and therapeutic approaches at a more advanced level than the elective clerkship experience.

Prereq: Successful completion of IMED 302.

Credits: 4 Type: Clerkship

IMED 405 General Internal Medicine (E)

COM, D.O.

This elective clerkship provides students an environment and opportunity to further develop and refine skills learned in IMED 301 & 302, with emphasis on diagnostic and therapeutic approaches to acute and chronic disease.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 405s General Internal Medicine (S)

COM, D.O.

This sub-internship clerkship provides students an environment and opportunity to further develop and refine skills learned in IMED 301 & 302, with an emphasis on diagnostic and therapeutic approaches to acute and chronic disease at a more advanced level than the general elective experience.

Prereq: IMED 302.

Credits: 4 Type: Clerkship

IMED 406 Cardiology (E)

COM, D.O.

This elective clerkship provides an orientation into the basics of cardiology. Students will gain insights into the use of several invasive and non-invasive diagnostic tools and expand their ability to interpret electrocardiograms.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 406s Cardiology (S)

COM, D.O.

This sub-internship clerkship provides an orientation into the basics of cardiology. Students will gain insights into the use of several invasive and non-invasive diagnostic tools and expand their ability to interpret electrocardiograms at a more advanced level than the elective offering.

Prereq: Successful completion of IMED 302.

Credits: 4 Type: Clerkship

IMED 409 Rheumatology (E)

COM, D.O.

This elective clerkship provides an opportunity for students to better understand clinical presentations of immunologically related diseases of joints, soft tissues, autoimmune disorders, and vasculitis.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 409s Rheumatology (S)

COM, D.O.

This sub-internship clerkship provides an opportunity for students to better understand clinical presentations of immunologically related diseases of joints, soft tissues, autoimmune disorders, and vasculitis at a more advanced level than the elective offerings.

Credits: 4 Type: Clerkship

IMED 410 Neurology (E)

COM, D.O.

This elective clerkship will provide the student a better understanding of diseases of the central, peripheral, and autonomic

nervous systems, including patient presentations and diagnoses.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 410s Neurology (S)

COM, D.O.

This sub-internship clerkship will provide the student a better understanding of diseases of the central, peripheral, and autonomic nervous systems, including patient presentations and diagnoses.

Credits: 4 Type: Clerkship

IMED 412 Hematology/Oncology (E)

COM, D.O.

This elective clerkship provides an introduction to the evaluation, diagnosis, and management of patients with hematologic disorders and malignant neoplasms. It serves as a review of the pathophysiology of bone marrow, disorders of hemostasis and behavior of neoplastic diseases. These principles will be applied to specific patient presentations.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 412s Hematology/Oncology (S)

COM, D.O.

This sub-internship clerkship provides an introduction to the evaluation, diagnosis, and management of patients with hematologic disorders and malignant neoplasms. It serves as a review of the pathophysiology of bone marrow, disorder of hemostasis and behavior of neoplastic diseases. These principles will be applied to specific patient presentations.

Prereq: Successful completion of IMED 301 & 302.

Credits: 4 Type: Clerkship

IMED 413 Endocrinology/Metabolism (E)

COM, D.O.

This elective clerkship will provide students opportunities to expand their knowledge of endocrinology by participating in the initial evaluation, diagnosis, and management of patients with endocrine and metabolic problems.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 413s Endocrinology/Metabolism(S)

COM, D.O.

This sub-internship clerkship will provide students opportunities to expand their knowledge of endocrinology by participating in the initial evaluation, diagnosis, and management of patients with endocrine and metabolic problems at a more advanced level than the elective offering.

Credits: 4 Type: Clerkship

IMED 414 Medical Genetics (E)

COM, D.O.

This elective provides training in the steps required in a genetic evaluation and basic skills involved in genetic history taking, physical examination and counseling, as well as the diagnosis and management of genetic disorders.

Prereq: Successful completion of IMED 301 and PEDS 301.

Credits: 4 Type: Clerkship

IMED 414s Medical Genetics (S)

COM, D.O.

This sub-internship provides training in the steps required in a genetic evaluation and basic skills involved in genetic history taking, physical examination and counseling, as well as the diagnosis and management of genetic disorders.

Prereq: Completion of IMED 302 and PEDS 301.

Credits: 4 Type: Clerkship

IMED 415 Dermatology (E)

COM, D.O.

This elective clerkship gives students a broad clinical exposure to skin diseases. Emphasis will be on the outpatient diagnosis and treatment of common skin problems and the cutaneous manifestations of systemic disease.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 415s Dermatology (S)

COM, D.O.

This sub-internship clerkship gives students a broad clinical exposure to skin diseases. Emphasis will be on the outpatient diagnosis and treatment of common skin problems and the cutaneous manifestations of systemic disease at a more advanced level than the elective offering.

Credits: 4 Type: Clerkship

IMED 416 Nephrology (E)

COM, D.O.

This elective clerkship will provide an introduction to the pathophysiologic basis of renal disease. Clinical relevance of the pathophysiologic process is emphasized. Students will gain experience with diagnosis and management of many acute medical problems including serious infections, cardiovascular, gastrointestinal and neurologic emergencies.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 416s Nephrology (S)

COM, D.O.

This sub-internship clerkship will provide an introduction to the pathophysiologic basis of renal disease. Clinical relevance of the pathophysiologic process is emphasized. Students will gain experience with diagnosis and management of many acute medical problems including serious infections, cardiovascular, gastrointestinal and neurologic emergencies at a more advanced level than the elective offering.

Credits: 4 Type: Clerkship

IMED 417 Allergy/Immunology (E)

COM, D.O.

The purpose of this elective clerkship is to develop confidence and competence in the management of allergic diseases in an ambulatory care setting. Student may also be exposed to in-hospital allergy and immunology consultation.

Credits: 4 Type: Clerkship

IMED 417s Allergy/Immunology (S)

COM, D.O.

The purpose of this sub-internship clerkship is to develop confidence and competence in the management of allergic diseases in an ambulatory care setting. Students may also be exposed to in-hospital allergy and immunology consultation at a more advanced level than the elective offering.

Credits: 4 Type: Clerkship

IMED 418 Gerontology (E)

COM, D.O.

This elective clerkship provides students with additional knowledge and experience in the care of older adults and the risks of this population for various health care concerns.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 418s Gerontology (S)

COM, D.O.

This sub-internship clerkship provides students with additional knowledge and experience in the care of older adults and the

risks of this population for various health care concerns at a more advanced level than the elective offering.

Credits: 4 Type: Clerkship

IMED 419 Addiction Medicine (E)

COM, D.O.

This elective clerkship provides an opportunity to develop an appreciation for caring for patients with chemical dependency. Students will better understand the effects of major pharmacologic drugs and be able to recognize clinical presentations for addiction or intoxication.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 419s Addiction Medicine (S)

COM, D.O.

This sub-internship clerkship provides an opportunity to develop an appreciation for caring for patients with chemical dependency. Students will better understand the effects of major pharmacologic drugs and be able to recognize clinical presentations for addition and/or intoxication at a higher level than the elective offering.

Credits: 4 Type: Clerkship

IMED 420 Critical Care Medicine (E)

COM, D.O.

This elective clerkship provides the student with experience working with a multidisciplinary health care team to care for patients with acute, life-threatening illnesses or injuries.

Prereq: Successful completion of IMED 301.

Credits: 4 Type: Clerkship

IMED 420s Critical Care Medicine (S)

COM, D.O.

This sub-internship clerkship provides students with experience working with a multidisciplinary health care team to care for patients with acute, life-threatening illnesses or injuries at a higher level than the elective offering.

Credits: 4 Type: Clerkship

IMED 421 Hospice/Palliative Care (E)

COM, D.O.

This elective course will provide a basic grounding in the knowledge and skills necessary for dealing competently and compassionately with seriously ill and dying patients. It will provide an introduction to clinical knowledge and skills; focus on interpersonal skills and attitudes, including mindful listening, conveying bad news, cultivating empathy, and developing sensitivity to religious, ethnic, class or other differences; and will explore the ethical and professional principles of effective end-of-life care.

Credits: 4 Type: Clerkship

IMED 421s Hospice/Palliative Care (S)

COM, D.O.

This sub-internship will provide a basic grounding in the knowledge and skills necessary for dealing competently and compassionately with seriously ill and dying patients. It will provide an introduction to clinical knowledge and skills; focus on interpersonal skills and attitudes, including mindful listening, conveying bad news, cultivating empathy, and developing sensitivity to religious, ethnic, class or other differences; and will explore the ethical and professional principles of effective end-of-life care.

Credits: 4 Type: Clerkship

IMED 422 Electrocardiogram Interpretation (E)

COM, D.O.

This elective course provides students with a comprehensive study of electrocardiograms. The contents contain a variety of ECGs that reflect common clinical encounters.

Prereq: Completion of third year of COM education; Permission of

instructor required.

Credits: 2.5 Type: Clerkship

IMED 499 Internal Medicine Research (E)

COM, D.O.

Student research in an area of interest within internal medicine that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

IOCS II Integrative Osteo Clin Skills II

COM, D.O.

This is the second portion of a two-year curriculum. It builds on the skills learned in IOCSI and is designed to reach students how to perform a history and physical exam, appropriately communicate with patients, and integrate the use of osteopathic principles and practices into patient care. Registration occurs both fall and spring term for 2.5 credits for an annual total of 5 credits.

Credits: 2.5 Type: Course

MBIO 199 Microbiology Research (E)

COM, D.O.

This elective is intended to provide a framework within which MSI students may engage in microbiology research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credits. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Credit value is variable from 2-5 credits. May be repeated for credit up to a maximum of 15 credits.

Prereq: Instructor Permission

Credits: 2 Type: Independent Study

MBIO 210 Clinical Applications in Microbiology (E)

COM, D.O.

This elective is intended to provide MSII students with an extensive in-depth examination of microbial pathogens, to a greater extent than experienced in the required COM curriculum. Principles of basic bacteriology, mycology parasitology and virology will be integrated into a diagnosis of infected patients by examining clinical scenarios (case studies). Public speaking skills will also be enhanced through the presentation of infectious disease case studies to the class.

Prereq: Successful completion of Neuroscience I and II sections. Graded P/F.

Credits: 1 Type: Course

MBIO 215 Clin Immunology & Microbiology (E)

COM, D.O.

This elective is intended to provide a framework within which MSII students may integrate the principles of basic immunology, bacteriology and virology into the diagnosis of patients within clinical scenarios.

Prereq: Successful completion of all MSI & MSII required sections.

Credits: 0.5 Type: Course

MBIO 299 Microbiology Research (E)

COM, D.O.

This elective is intended to provide a framework within which MSII students may engage in microbiology research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Credit value is variable from 2-5 credits. May be repeated for credit up to a maximum of 15 credits.

Prereq: Instructor Permission

Credits: 2 Type: Independent Study

MBIO 499 Microbiology Research (E)

COM, D.O.

Student research in an area of interest within microbiology that is

under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

MED 110 Molecular and Cellular Mechanisms

COM, D.O.

This is a multidisciplinary course which incorporates aspects of biochemistry, molecular biology, cell biology, and genetics. Topics reviewed within these disciplines include function of cellular elements, cell structure, cellular organelles and macromolecules, DNA/RNA structure and function, protein synthesis, regulation of gene expression, energetics, metabolism, and regulation of cellular activity. These topics are presented via learning sessions using lectures, clinical correlations, medical vignettes, and directed reading. The course objective is to present the mechanisms underlying normal physiology and metabolism thus providing a foundation for understanding disease processes.

Credits: 5 Type: Course

MED 111 Host Defense Mechanisms

COM, D.O.

This course introduces basic concepts necessary to understand the normal function of the immune system including the cellular and humoral components included in the system. It provides an overview of the human immune system, including processes which may lead to immunopathogenesis. This course will utilize lectures, directed reading assignments, and clinical integrative case discussions.

Credits: 4.5 Type: Course

MED 112 Musculoskeletal I

COM, D.O.

This interdisciplinary course introduces fundamental concepts which enable the student to understand the normal structure and function of the musculoskeletal system as well as the basic science which underlies disorders associated with skeletal muscle, the neuromuscular junction, bone, and joints. This course has an introduction to gross dissection and radiographic anatomy in order to enhance understanding of structure and function. In addition to dissection, this course will utilize lectures, directed reading assignments, and clinical integrative case discussions.

Credits: 8 Type: Course

MED 113 Cardiopulmonary

COM, D.O.

This course introduces the basic structure and function of the cardiac and respiratory systems as well as an introduction to normal coagulation and hemostasis. It provides an overview of the function of the cardiorespiratory system as well as the biomedical science underlying disorders of the heart, circulatory and respiratory systems. Topics reviewed include cardiac cycle and sounds, basic ECG, hemodynamics, autonomic control, respiratory cycle, perfusion, ventilation, gas transport, acid/base balance, and control of breathing. This course utilizes lectures, cadaver dissection, radiographic anatomy, directed reading assignments, and interactive class sessions.

Credits: 7 Type: Course

MED 114 Gastrointestinal I

COM, D.O.

This is a multidisciplinary course designed to provide knowledge necessary to understand integration of the normal structure and function of the gastrointestinal and hepatobiliary systems. It covers basic principles of digestion, absorption, secretion, and motility as well as an overview of the regulation of mechanical, chemical, neural, and hormonal systems which control digestive processes. The course is structured to include the gross and radiographic anatomy of the primary and accessory organs of digestion. This course utilizes lectures, cadaver dissection, directed reading assignments, and case discussions.

Credits: 3.5 Type: Course

MED 115 Renal I

COM, D.O.

The renal course utilizes a multidisciplinary approach to prepare students with a foundational understanding of the normal structure and function of the renal system. This course reviews the basic functional principles of the organs of urine production and excretion including the gross anatomy, histology, and embryology of the kidney and urinary tract. A thorough investigation of the essential physiology of kidney function will include the primary renal processes, urine formation, and renal blood flow. In addition, the renal system's role in ion regulation, acid-base balance, fluid volume, and salt-water balance will be examined along with the regulatory control mechanisms of these functions. An understanding of the renal system will be accomplished through student involvement in lectures, directed student assignments, and relevant interactive clinical correlation sessions.

Credits: 2.5 Type: Course

MED 116 Endocrine I

COM, D.O.

This course is designed to introduce the basic anatomy, physiology, histology, and embryology of the major endocrine structures and organs. It also reviews production, secretion, regulation of secretion, and actions of the hormones associated with each structure/organ and its target tissue(s). The course provides a basis for understanding the pathological conditions resulting from endocrine dysfunction. This course utilizes lectures, cadaver dissection, directed reading assignments, and case discussions.

Credits: 1.5 Type: Course

MED 117 Reproduction & Development I

COM, D.O.

This course is designed to introduce the basic anatomy, physiology, histology, and embryology of the major reproductive structures and organs of the male and female. It provides an overview of production, secretion, regulation of secretion, and actions of the hormones associated with each structure/organ and its target tissue(s). The course also introduces basic information related to pregnancy, perinatal physiology and development, and contraception. This course utilizes lectures, cadaver dissection, directed reading assignments, and case discussions.

Credits: 3.5 Type: Course

MED 118 Neuroscience I

COM, D.O.

This course introduces the anatomy and physiology of the central and peripheral nervous system as a basis of understanding normal function. The study of neuroanatomy and head/neck anatomy is bridged by an introduction of the cranial nerves. Concepts in this course are presented utilizing clinical-based lectures, reading assignments, cadaver dissection, and reinforced by integrative class sessions which relate basic neuroanatomical knowledge with the clinical symptoms presented by a neurological deficit.

Credits: 7.5 Type: Course

MED 119 Mechanisms of Disease I

COM, D.O.

This intensive course is designed to impart and stimulate through lectures and active, adult learning strategies, acquisition of introductory knowledge and understanding/application of the basic tenets of human pathophysiology. Pathology is the study of disease and the basic science of clinical medicine. As such it is foundational to the understanding and development of differential diagnosis "thinking" and the rationale for many of the diagnostic studies and therapeutic modalities employed in clinical medicine. This course, along with Mechanisms of Disease II, are considered bridging learning endeavors to aid students in preparing for Year II of the KCU curriculum.

Credits: 1.5 Type: Course

MED 120 Mechanisms of Disease II

COM, D.O.

This course builds on the information introduced in MED 119 and employs lectures, clinical interactive sessions and active, adult learning strategies along with introductory knowledge of the basic tenets of human pathophysiology to further explore infectious causes of pathology and disease. This course, along with Mechanisms of Disease I, are considered bridging learning endeavors to aid students in preparing for Year II of the KCU curriculum.

Credits: 2 Type: Course

MED 121 Medical Informatics & Info Literacy

COM, D.O.

A series of two competency-based courses that serve as an introduction to information literacy and evidence-based practice. This course is designed to enable students to access, assess, and present medical information. Course objectives are accomplished through designated student assignments, lectures, and small group sessions which culminate in the development and presentation of a clinical case in student-led grand rounds.

Credits: 1 Type: Course

MED 122 Medical Informatics & Info Literacy

COM, D.O.

A series of two competency-based courses that serve as an introduction to information literacy and evidence-based practice. This course is designed to enable students to access, assess, and present medical information. Course objectives are accomplished through designated student assignments, lectures, and small group sessions which culminate in the development and presentation of a clinical case in student-led grand rounds.

Credits: 1 Type: Course

MED 123 Bioethics I

COM, D.O.

This course is designed to enable students to apply ethical principles to medical practice, healthcare policy, and biomedical research. Students learn to recognize ethical issues, engage in moral reasoning, and make decisions which respect the rights of patients while fulfilling the obligations of physicians. Course objectives are accomplished through designated student assignments, lectures, and written assignments.

Credits: 1 Type: Course

MED 125 Osteopathic Skills I

COM, D.O.

This course is designed to provide basic information related to diagnosis and treatment using current anatomic, biomechanical, and functional osteopathic principles and practice which allow the integrative use of these treatments into patient care. Additional topics reviewed include the history and philosophy of osteopathic medicine, professional communication, examination skills, and medical record documentation. The course is structured to deliver content via lectures and competency-based laboratory experiences and skills demonstrations.

Credits: 5 Type: Course

MED 126 Osteopathic Skills II

COM, D.O.

This course builds on basic concepts introduced in MED 125 and is designed to provide more advanced information related to the integrative use of osteopathic principles and practices in patient care. Emphasis is on more advanced application of osteopathic manipulative medicine diagnostic skills and treatments. The course is structured to deliver content via lectures and competency-based laboratory experiences and skills demonstrations.

Credits: 3 Type: Course

MED 130 Principles of Clinical Medicine I

COM, D.O.

This course is coordinated with the systems courses and is designed to introduce skills required to communicate with patients and to complete a comprehensive history and physical exam with accurate and adequate documentation of the encounter. Additionally, the course seeks to develop active clinical thinking/problem solving skills along with demonstration of competency in the clinical application of basic medical procedures. Course content is delivered via lectures, human patient simulation sessions, standardized patient encounters, and competency-based laboratory experiences and skills demonstrations culminating in clinical skills assessments.

Credits: 4 Type: Course

MED 131 Principles of Clinical Medicine II

COM, D.O.

This course is a continuation of MED 130 and is coordinated with the systems courses. It is designed to introduce skills required to communicate with patients and to complete a comprehensive history and physical exam with accurate and adequate documentation of the encounter. Additionally, the course seeks to develop active clinical thinking/problem solving skills along with demonstration of competency in the clinical application of basic medical procedures with an introduction to patient presentation and admission orders. Course content is delivered via lectures, human patient simulation sessions, standardized patient encounters, and competency-based laboratory experiences and skills demonstrations culminating in clinical skills assessments.

Credits: 3 Type: Course

MED 215 Renal II

COM, D.O.

The Renal II course focuses on the pathophysiology and pathologic entities of the renal system. Broad topics to be emphasized include the wide spectrum of physiologic functions of the human kidney, pathologic renal entities (e.g., glomerulopathy, glomerulonephritis, tubulointerstitial disorders, infections, toxic and ischemic insults, vascular disease and neoplasms), drugs used in the treatment of hypertension, and clinical aspects of the above-mentioned disorders. Key aspects of clinical laboratory test ordering and data utilization in the diagnosis and monitoring of kidney and urinary tract disease are discussed.

Credits: 3 Type: Course

MED 216 Endocrine II

COM, D.O.

The Endocrine II course will review the basic principles of endocrine hormone signaling, storage, secretion and action. Abnormalities in normal endocrine physiology will be discussed through pathophysiologic correlations and clinical discussions. The course will emphasize the hypothalamic/pituitary complex, thyroid, parathyroid, adrenal, and endocrine functions of the pancreas. Students are expected to be familiar with the hypofunctioning or hyperfunctioning of key endocrine glands, the structure, secretion and action of endocrine hormones (peptide, steroid and thyroid hormones), and the major clinical endocrine disorders related thereto. Pharmacology as it relates to hormone secretion and action will be discussed. Emphasis will be placed on understanding the pathophysiology of each endocrine gland with the intent to use the general principles of endocrine pathophysiology and pharmacology to effectively diagnose, manage and care for patients with endocrine disorders.

Credits: 3 Type: Course

MED 217 Reproduction II

COM, D.O.

This course introduces the care of the pregnant woman, based on principles learned previously. The course will focus on the process of the pregnant state, normal labor and delivery, and management

of common obstetrical and gynecological issues, with an emphasis on interpretation of clinical cases.

Credits: 3.5 Type: Course

MED 222 Musculoskeletal II

COM, D.O.

The Musculoskeletal II course introduces second year students to the pathophysiology, the signs and symptoms, the diagnosis, and the treatment of commonly occurring musculoskeletal diseases, limb, and joint pain; as well as less common, but serious, musculoskeletal disorders with neoplastic, infectious or inherited etiologies. The core scientific and medical disciplines in the Musculoskeletal II course are: pathology, internal medicine (primary care and sub-specialties), and pharmacology. This course complements the Musculoskeletal 1 section, which was rich in anatomy and physiology, and includes reading assignments, lectures, case-based clinical presentations and clinical simulations.

Credits: 4 Type: Course

MED 223 Bioethics II

COM, D.O.

This course is designed to enable students to apply ethical principles to medical practice, healthcare policy, and biomedical research. Students learn to recognize ethical issues, engage in moral reasoning, and make decisions which respect the rights of patients while fulfilling the obligations of physicians. Course objectives are accomplished through designated student assignments, lectures, and written assignments.

Credits: 1 Type: Course

MED 224 Gastrointestinal II

COM, D.O.

The course covers the gastrointestinal system, including the hepatobiliary and pancreatic systems. After a brief review of normal physiologic principles and processes, the initial two weeks are devoted to a thorough study of gastrointestinal pathology. Clinicopathological correlations are emphasized. The remainder of the course is devoted to the application of the integrated pathophysiological principles in clinical settings under the guidance of appropriate clinical faculty. Material that has been previously covered is integrated into clinical application and used to build the clinical framework needed to be a competent osteopathic physician. Emphasis is placed on understanding the pathophysiology and the ability to correlate and use basic principles in the management of gastrointestinal disorders. Clinical discussions and lectures focus on disease states the students will encounter throughout their careers.

Credits: 4 Type: Course

MED 225 Osteopathic Skills III

COM, D.O.

The third semester of osteopathic skills is designed to teach students new manipulative medicine treatment modalities; built on the foundation from year 1 by integrating examination skills with the use of osteopathic principles, and OMT treatment practices into patient care.

Credits: 2.5 Type: Course

MED 226 Osteopathic Skills IV

COM, D.O.

The fourth semester of osteopathic skills is designed to teach students new manipulative medicine treatment modalities; built on the foundation from year 1 by integrating examination skills with the use of osteopathic principles, and OMT treatment practices into patient care.

Credits: 2 Type: Course

MED 227 Pediatric Medicine

COM, D.O.

This course will focus on the clinical presentation, pathophysiology,

and differential diagnosis of a variety of common and uncommon medical conditions as they present in the pediatric population.

When applicable, growth and development, maturational processes of organ function, immunologic considerations, and genetic factors will be presented.

Credits: 1 Type: Course

MED 228 Neuroscience II

COM, D.O.

The first week of the Neuroscience II course will focus on the general principles of pharmacology (i.e., pharmacodynamics, pharmacokinetics, drug biotransformation, and clinical trials). The remainder of the Neuroscience II course is designed to use the neuroanatomy and neurophysiology basic science information presented in Year 1 to underpin a comprehensive overview of neuropathology, including both non-neoplastic and neoplastic diseases. Neuroanatomy, neurophysiology, and clinical neurology applications are integrated to build the clinical framework necessary to succeed during year 3 and year 4 clinical rotations.

Credits: 7 Type: Course

MED 229 Hematology & Lymph

COM, D.O.

This course is designed to provide the student with a comprehensive overview of hematology and hematopathology. All blood cell lines will be discussed in the context of the pathophysiology and pathology of both non-neoplastic and neoplastic diseases. This material will be integrated into clinical applications and used to build the clinical framework needed to successfully synthesize and integrate course content. Topics include hematopoiesis, red cell disorders and the clinical work-up of anemia, non-neoplastic and neoplastic white cell disorders, and bleeding and hypercoagulable disorders. In addition, students will be exposed to concepts related to solid organs of the hematologic/lymphatic system (spleen and thymus). Pertinent pharmacology to the treatment of anemia and neoplastic diseases will be presented and common diagnostic tests and their interpretation will be integrated throughout the course.

Credits: 4 Type: Course

MED 230 Principles of Clinical Medicine III

COM, D.O.

PCM3 is the third installment of a 2-year longitudinal course that addresses the foundations of clinical medicine. Students will learn how to perform a history and physical exam, complete appropriate medical documentation, effectively communicate with patients, perform various clinically-related skills and integrate the use of osteopathic principles and practices into patient care. The overall goal of the 2-year Principles in Clinical Medicine curriculum is for students to demonstrate competence in the above-mentioned areas prior to starting third year clinical clerkships.

Credits: 3.5 Type: Course

MED 231 Principles of Clinical Medicine IV

COM, D.O.

PCM4 is the fourth and final installment of a 2-year longitudinal course that addresses the foundations of clinical medicine. Students will learn how to perform a history and physical exam, complete appropriate medical documentation, effectively communicate with patients, perform various clinically-related skills and integrate the use of osteopathic principles and practices into patient care. The overall goal of the 2-year Principles in Clinical Medicine curriculum is for students to demonstrate competence in the above-mentioned areas prior to starting third year clinical clerkships.

Credits: 3 Type: Course

MED 233 Cardiovascular Medicine

COM, D.O.

Cardiovascular Medicine is structured with the goal of enabling the

student to obtain the requisite knowledge necessary to understand the pathology, physiology, pharmacology and clinical medicine of the cardiovascular system. Upon completion of the course, the student will be able to recognize presenting signs and symptoms of various C-V diseases and develop appropriate differential diagnosis and treatment. Special emphasis on interpretation of ECGs will be presented. The content of this course will be presented via lecture, interactive lectures, reading assignments, case presentations, and patient presentations.

Credits: 5 Type: Course

MED 234 Respiratory Medicine

COM, D.O.

This course will concentrate on the pathology, pathophysiology, diagnosis and treatment of major disorders of the lungs, and the relationship multisystem diseases have with the pulmonary system. Student activities will concentrate on the fundamental obstructive, restrictive, and infectious diseases. Pulmonary emergencies and primary and secondary malignancies will be presented, with an emphasis on diagnostic techniques and treatment methodologies. Broad classes of antibiotics, antivirals, and antifungals will be introduced and discussed as they relate to respiratory medicine.

Credits: 4.5 Type: Course

MED 235 Behavioral Science and Psychiatry

COM, D.O.

The Behavioral Science and Psychiatry System is structured to expose students to psychiatric and behavioral medical issues commonly seen in practice. The clinical component of the course will focus on mental health disorders, such as depression, bipolar disorder, mania, psychosis, anxiety, and drug abuse. Symptoms of these disorders will be explored in detail with a heavy emphasis on the available pharmacologic treatments.

Credits: 3 Type: Course

MED 236 Bioethics III

COM, D.O.

This course is a continuation of Bioethics II (MED 223), which focuses on professionalism, clinical ethics, research ethics, and public policy.

Prereq: MED 223

Credits: 1 Type: Course

MED 250 Comprehensive Systems Integration

COM, D.O.

This is a required, structured overview course designed to aid the student preparing for the COMLEX I Board Examination. Self-assessment and continuous review of key concepts in biomedical disciplines by means of an online question bank is a key component of the course. The course culminates with a comprehensive lecture series and practice exams conducted under conditions similar to the actual COMLEX level 1 Board Exam.

Credits: 8.5 Type: Course

MED 411 DOCARE International Community Med

COM, D.O.

This clerkship consists of approximately two weeks on KCU's campus to conduct didactic review sessions of Medical Spanish, as well as sessions regarding travel safety, prevalence of disease/illness in Central America, and preparation for the medical mission. The remaining two weeks are spent in Guatemala providing supervised medical care. During the time spent on campus, students will be expected to spend a minimum of 40 hours preparing didactic sessions and language study, and a minimum of 80 hours of field experience during the clinical portion of the elective. Cross-referenced with MED 311. Students may earn credit for both MED 311 & 411 for a maximum of 10 credits.

Credits: 5 Type: Clerkship

MIMD 101 Military Medicine (E)

COM, D.O.

This elective is a specialized curricular honors track for Health Professions Scholarship Program (HPSP) student recipients and National Guard members who will serve as military physicians in the U.S. Army, Navy, and Air Force following medical school graduation. This specialty track provides learning opportunities uniquely aligned to address Medical Corps officer duties and obligations. Graded P/F.

Credits: 1 Type: Course

MIMD 102 Military Medicine (E)

COM, D.O.

This elective is a specialized curricular honors track for Health Professions Scholarship Program (HPSP) student recipients and National Guard members who will serve as military physicians in the U.S. Army, Navy, and Air Force following medical school graduation. This specialty track provides learning opportunities uniquely aligned to address Medical Corps officer duties and obligations. Graded P/F.

Credits: 1 Type: Course

MIMD 201 Military Medicine III (E)

COM, D.O.

This elective is a specialized curricular honors track for Health Professions Scholarship Program (HPSP) student recipients and National Guard members who will serve as military physicians in the U.S. Army, Navy, and Air Force following medical school graduation. This specialty track provides learning opportunities uniquely aligned to address Medical Corps officer duties and obligations. Graded P/F.

Credits: 1 Type: Course

MIMD 202 Military Medicine IV (E)

COM, D.O.

This elective is a specialized curricular honors track for Health Professions Scholarship Program (HPSP) student recipients and National Guard members who will serve as military physicians in the U.S. Army, Navy, and Air Force following medical school graduation. This specialty track provides learning opportunities uniquely aligned to address Medical Corps officer duties and obligations. Graded P/F.

Credits: 1 Type: Course

OBGY 220 Clinical Care Practicum - OB/GYN (E)

COM, D.O.

Early Clinical Experiences---OBGYN

Credits: 2 Type: Independent Study

OBGY 301 Obstetrics and Gynecology

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to further their understanding of obstetrics and gynecology. Students focus on the diagnosis, treatment and management of common OB/GYN conditions to prepare for more advanced study of the discipline. During the clerkship, students will continue to improve their abilities to obtain, record, analyze, and communicate clinical information.

Credits: 4 Type: Clerkship

OBGY 401 Maternal Fetal Medicine (E)

COM, D.O.

This elective provides opportunities to observe and assist in the management of patients with complex problems related to maternal fetal medicine. These may include pre-term labor with or without premature pre-term rupture of membranes, multiple gestations, diabetes in pregnancy (pre-existing and gestations), hypertension in pregnancy (including chronic hypertension, gestational hypertension, mild or severe pre-eclampsia), advanced maternal age, and genetic conditions.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 401s Maternal Fetal Medicine (S)

COM, D.O.

This clerkship is offered as a sub-internship in maternal fetal medicine.

Credits: 4 Type: Clerkship

OBGY 402 Medical Genetics (E)

COM, D.O.

This elective provides an introduction to the field of clinical genetics. Students have the opportunity to learn about a range of genetic disorders, genetic diagnostics and genetic counseling by participating in the evaluation of fetal development during pregnancy.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 402s Medical Genetics (S)

COM, D.O.

This sub-internship provides an introduction to the field of clinical genetics. Students have the opportunity to learn about a range of genetic disorders, genetic diagnostics and genetic counseling by participating in the evaluation of fetal development during pregnancy.

Credits: 4 Type: Clerkship

OBGY 403 General Gynecology (E)

COM, D.O.

This course provides clinical exposure, observation and training to further the understanding of general gynecology. Students focus on the diagnosis, treatment and management of common and uncommon gynecological conditions with a greater depth than the core rotation. During the clerkship, students will continue to improve their abilities to obtain record, analyze, and communicate clinical information.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 403s General Gynecology (S)

COM, D.O.

This clerkship is offered as a sub-internship in general gynecology.

Credits: 4 Type: Clerkship

OBGY 404 Gynecologic Oncology (E)

COM, D.O.

This elective provides opportunities to observe and assist in the management of patients with cancer and precancerous conditions of the female gynecologic organs. The student will learn epidemiology, diagnosis, treatment and long term prognosis for the major gynecologic cancers: cervical, uterine, and ovarian.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 404s Gynecologic Oncology (S)

COM, D.O.

This sub-internship provides opportunities to observe and assist in the management of patients with cancer and precancerous conditions of the female gynecologic organs. The student will learn epidemiology, diagnosis, treatment and long term prognosis for the major gynecologic cancers: cervical, uterine, and ovarian.

Credits: 4 Type: Clerkship

OBGY 405 General Obstetrics (E)

COM, D.O.

This course provides clinical exposure, observation and training to further the understanding of general obstetrics. Students focus on the diagnosis, treatment and management of common and

uncommon obstetrical conditions with a greater depth than the core rotation. During the clerkship, students will improve their abilities to obtain, record, analyze, and communicate clinical information.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 405s General Obstetrics (S)

COM, D.O.

This sub-internship provides clinical exposure, observation and training to further the understanding of general obstetrics. Students focus on the diagnosis, treatment and management of common and uncommon obstetrical conditions with a greater depth than the core rotation. During the clerkship, students will continue to improve their abilities to obtain, record, analyze, and communicate clinical information.

Credits: 4 Type: Clerkship

OBGY 406 General OB/GYN (E)

COM, D.O.

This course provides clinical exposure, observation and training to further the understanding of general obstetrics and gynecology. Students focus on the diagnosis, treatment and management of common and uncommon obstetrical and gynecologic conditions. During the clerkship, students will improve their abilities to obtain, record, analyze, and communicate clinical information.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 406s General OB/GYN (S)

COM, D.O.

This sub-internship provides clinical exposure, observation and training to further the understanding of general obstetrics and gynecology. Students focus on the diagnosis, treatment and management of common and uncommon obstetrical and gynecologic conditions with a greater depth than the core rotation. Students will continue to improve their abilities to obtain, record, analyze, and communicate clinical information.

Credits: 4 Type: Clerkship

OBGY 407 Reproductive Endocrinology (E)

COM, D.O.

This elective provides opportunities to observe and assist in the management of patients with complex problems related to reproductive endocrinology and infertility. These may include hormonal imbalances, menstrual disturbances, sexual development and function problems, infertility, pregnancy loss, and menopause.

Prereq: Completion of OBGY 301.

Credits: 4 Type: Clerkship

OBGY 407s Reproductive Endocrinology (S)

COM, D.O.

This sub-internship provides opportunities to observe and assist in the management of patients with complex problems related to reproductive endocrinology and infertility. These may include hormonal imbalances, menstrual disturbances, sexual development and function problems, infertility, pregnancy loss, and menopause.

Credits: 4 Type: Clerkship

OBGY 499 OB/GYN Research (E)

COM, D.O.

Student research in an area of interest within obstetrics and/or gynecology under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

OCS 215 OPP & Clinical Case Integration (E)

COM, D.O.

The purpose of this elective is to help the student organize the OCS curriculum knowledge for the preparation of evaluating and treating patients during the clinical years. It is designed to be an interactive

discussion of the application of OPP within a clinical case context format. While discussing clinical cases, the integration of the osteopathic concepts will be emphasized as well as physical diagnosis skills. The clinical presentation being discussed will determine which specific OMT techniques will be included.

Prereq: OCS 201

Credits: 1 Type: Course

OCS 220 CCP: Osteopathic Manipulation (E)

COM, D.O.

The clinical care practicum is designed to provide second-year students with exposure, supervised observation and training to further their understanding of Osteopathic Medicine.

Credits: 2 Type: Independent Study

OCS 399 OMM Fellowship (E)

COM, D.O.

The OMM Fellowship provides selected students with advanced professional education in osteopathic manipulative medicine, and provides a framework under which they develop teaching and research skills.

Variable credit with fall and spring offerings awarded 20 credits. This is a 12-month program with a maximum credit value of 40 credits.

Prereq: Selection through application process.

Credits: 20 Type: Independent Study

OCS 401 Osteopathic Manipulation (E)

COM, D.O.

This elective clerkship provides clinical exposure, observation and training to further the understanding of osteopathic manipulation. These experiences take place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Learning is enhanced with specific goals and objectives.

Credits: 4 Type: Clerkship

OCS 401s Osteopathic Manipulation (S)

COM, D.O.

This elective sub-internship is restricted to fourth-year students and is designed to provide the student with an increased level of patient care responsibility. Students serve as primary care providers under the direct supervision of the attending physician or faculty and may perform simple diagnostic procedures. Training focuses on self-education and includes more advanced study of osteopathic manipulation.

Credits: 4 Type: Clerkship

OCS 499 Pathology Research (E)

COM, D.O.

This elective experience is individualized and designed to enhance the student's understanding and research ability in osteopathic clinical skills and treatment.

Credits: 1 Type: Clerkship

OMMD 209 Foundations of Teaching OMM (E)

COM, D.O.

This elective provides selected second-year students with experience in teaching principles of Osteopathy in the laboratory setting. Participants assist first-year students in their weekly laboratory experience and provide individual instruction and demonstration of osteopathic techniques under the supervision of faculty and staff. May be repeated for credit up to a maximum of 2 credits.

Prereq: Instructor Permission

Credits: 0.5 Type: Course

OMMD 401 Accelerated OMM Integration Session (E)

COM, D.O.

Graduating students will review OMM diagnosis and treatment with emphasis on common areas of somatic dysfunction as well as alternate treatment techniques in a closely supervised environment. Students will also learn and practice appropriate OMM documentation and billing practices. To supplement lab material, students will assess and treat patients in a clinical setting.

Prereq: Course director approval.

Credits: 2 Type: Clerkship

OMMD 420 Teaching an Accelerated OMM Integration Session (E)

COM, D.O.

Fellows emeritus will gain experience in developing course curriculum by facilitating a practical OMM review for graduating COM students. Fellows emeritus will also gain additional experience teaching senior students to improve their assessment skills and perform effective treatments.

Prereq: Course director approval.

Credits: 2.5 Type: Clerkship

PATH 110 Basic Forensic Pathology (E)

COM, D.O.

This elective course introduces forensic pathology in the setting of a medical examiner's office. Students will learn the differences between hospital and forensic autopsies, natural and non-natural causes of death, and types of wound presentations associated with non-natural causes of death.

Prereq: Instructor Permission

Credits: 1 Type: Course

PATH 112 Pathology Symposium (E)

COM, D.O.

This elective will allow students to gain an enhanced understanding of disease through small group-directed discussions and acquire skills critical to a physician's lifelong learning. May be repeated for a maximum of 4 credits.

Credits: 1 Type: Course

PATH 199 Pathology Research (E)

COM, D.O.

This elective provides students with an opportunity to learn and/or improve skills in pathology identification and develop research techniques. Students will be able to develop individual projects or participate as part of a research team.

Prereq: Permission of instructor prior to registration. May be repeated for up to a maximum of 20 credits.

Credits: 1 Type: Independent Study

PATH 209 Introduction to Pathology Teaching (E)

COM, D.O.

Course participants work hand-in-hand with department faculty to introduce incoming students to pathology, including microscope work, and making and presenting clinicopathologic correlations.

Prereq: MSII status and permission of the department chair. May be repeated for credit up to a maximum of 3 credits.

Credits: 1 Type: Course

PATH 211 Introduction to Hospital Pathology (E)

COM, D.O.

In this course students join hospital pathologists for hands-on-learning, including processing and diagnosing surgical specimens and biopsies, and experience in the clinical lab.

Prereq: MSII status and permission of department chair.

Credits: 1 Type: Course

PATH 212 Pathology Symposium (E)

COM, D.O.

This elective will allow students to gain an enhanced understanding of disease through small group-directed discussions and acquire

skills critical to a physician's lifelong learning. May be repeated for a maximum of 4 credits.

Credits: 1 Type: Course

PATH 215 Pathology Applications (E)

COM, D.O.

This elective course provides students with an intensive overview of pathology applications as they will actually appear in practice. Students will be presented (in rapid-fire mode) with clinical situations to assess in their small groups, and then be responsible for presenting their analysis to the larger group.

Credits: 0.5 Type: Course

PATH 220 Clinical Care Practicum - Pathology (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of Pathology. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

PATH 221 Clinical Care Pract -Forensic Path (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of Forensic Pathology. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

PATH 222 Clinical Care Pract -Transfusion Med (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of Transfusion Medicine. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

PATH 224 Clinical Care Pract - Surgical Path (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of Surgical Pathology. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

PATH 299 Pathology Research

COM, D.O.

This elective provides students with an opportunity to learn and/or improve skills in pathology identification and develop research techniques. Students will be able to develop individual projects or participate as part of a research team.

Prereq: Permission of instructor prior to registration. May be repeated for up to a maximum of 20 credits.

Credits: 1 Type: Independent Study

PATH 401 General Pathology (E)

COM, D.O.

This elective acquaints students with the overall practice of hospital pathology. The wide range of choices must include the processing and interpretation of surgical pathology and hematology specimens. It may also include time on the necropsy, cytopathology, clinical chemistry, transfusion, and molecular pathology services. The experience will be valuable to students planning careers in any specialty, as they understand the mysteries hidden from many physicians "behind the paraffin curtain."

Credits: 4 Type: Clerkship

PATH 401s Clinical Pathology (S)

COM, D.O.

This sub-internship acquaints students with the overall practice of hospital pathology. The wide range of choices must include the processing and interpretation of surgical pathology and hematology specimens. It may also include time on the necropsy, cytopathology, clinical chemistry, transfusion, and molecular pathology services. The experience will be valuable to students planning careers in any specialty, as they understand the mysteries hidden from many physicians "behind the paraffin curtain."

Credits: 4 Type: Clerkship

PATH 402 Clinical Pathology (E)

COM, D.O.

This elective acquaints students with clinical pathology laboratories, as well as provides an opportunity to concentrate in an area based upon the student's interest. The clerkship provides an opportunity to obtain an overview of clinical laboratory assays important for diagnosis and treatment of disease.

Credits: 4 Type: Clerkship

PATH 402s Clinical Pathology (S)

COM, D.O.

This sub-internship acquaints students with clinical pathology laboratories, as well as provides an opportunity to concentrate in an area based upon the student's interest. The clerkship provides an opportunity to obtain an overview of clinical laboratory assays important for diagnosis and treatment of disease.

Credits: 4 Type: Clerkship

PATH 403 Anatomic Pathology (E)

COM, D.O.

This elective introduces students to the field of anatomic pathology as it is practiced in the hospital setting. Students will help process tissues and practice making diagnoses.

Credits: 4 Type: Clerkship

PATH 403s Anatomic Pathology (S)

COM, D.O.

This sub-internship introduces students to the field of anatomic pathology as it is practiced in the hospital setting. Students will help process tissues and practice making diagnoses.

Credits: 4 Type: Clerkship

PATH 404 Blood Banking (E)

COM, D.O.

Students will become familiar with the operation of a blood bank and the interaction of the pathologist with the patient's health care team. Students will participate in the collection, processing, analysis, storage, selection and administration of blood components, and the workup of suspected transfusion reactions as performed by the laboratory team.

Credits: 4 Type: Clerkship

PATH 404s Blood Banking (S)

COM, D.O.

Students will become familiar with the operation of a blood

bank and the interaction of the pathologist with the patient's health care team. Students will participate in the collection, processing, analysis, storage, selection and administration of blood components, and the workup of suspected transfusion reactions as performed by the laboratory team.

Credits: 4 Type: Clerkship

PATH 405 Forensic Pathology (E)

COM, D.O.

This elective provides extended training in forensic pathology in the setting of a medical examiner's office. During the clerkship, students will become active participants on the forensics team as the circumstances surrounding questionable deaths are reconstructed.

Credits: 4 Type: Clerkship

PATH 405s Forensic Pathology (S)

COM, D.O.

This sub-internship provides extended training in forensic pathology in the setting of a medical examiner's office. During the clerkship, students will become active participants on the forensics team as the circumstances surrounding questionable deaths are reconstructed.

Credits: 4 Type: Clerkship

PATH 406 Hematopathology (E)

COM, D.O.

This elective provides an opportunity for students to learn the basic approach to hematology-oncology patients primarily from the perspective of the clinical laboratory. Students will gain experience in the evaluation of hematology patients of all sorts, including those presenting with anemia, coagulation disorders, leukemia and/or lymphoma.

Credits: 4 Type: Clerkship

PATH 406s Hematopathology (S)

COM, D.O.

This sub-internship provides an opportunity for students to learn the basic approach to hematology-oncology patients primarily from the perspective of the clinical laboratory. Students will gain experience in the evaluation of hematology patients of all sorts, including those presenting with anemia, coagulation disorders, leukemia and/or lymphoma.

Credits: 4 Type: Clerkship

PATH 407 Toxicology (E)

COM, D.O.

This elective examines basic concepts of toxicology as they apply to environmental health. During the clerkship, students will become active participants on a pathology service with a focus on a variety of medical toxicology problems.

Credits: 4 Type: Clerkship

PATH 407s Toxicology (S)

COM, D.O.

This sub-internship examines basic concepts of toxicology as they apply to environmental health. During the clerkship, students will become active participants on a pathology service with a focus on a variety of medical toxicology problems.

Credits: 4 Type: Clerkship

PATH 499 Pathology Research (E)

COM, D.O.

Students research in an area of interest within pathology under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

PEDS 199 Pediatric Research (E)

COM, D.O.

This elective provides students with an opportunity to learn and/or

improve research techniques in a pediatric setting. Students will be able to develop an individual project as part of a research team.

Prereq: Permission of instructor prior to registration. Repeatable for up to a maximum of 20 credits.

Credits: 1 Type: Independent Study

PEDS 202 Introduction to Newborn Care

COM, D.O.

This elective course provides an introduction to newborn infants in clinical settings.

Prereq: Completion of a minimum of three pre-clinical semesters of medical training.

Credits: 1 Type: Course

PEDS 203 Neonatal Resuscitation (E)

COM, D.O.

This elective course provides instruction in neonatal resuscitation based on the American Academy of Pediatrics and the American Health Association's International Guidelines.

Prereq: BCLS Certification

Credits: 1 Type: Course

PEDS 220 Clinical Care Practicum - Pediatrics (E)

COM, D.O.

This course is designed to offer students with early clinical exposure, supervised observation and training to further their understanding of Pediatrics. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

PEDS 299 Pediatric Research

COM, D.O.

This elective provides students with an opportunity to learn and/or improve research techniques in a pediatric setting. Students will be able to develop an individual project as part of a research team.

Prereq: Permission of instructor prior to registration. Repeatable for up to a maximum of 20 credits.

Credits: 1 Type: Independent Study

PEDS 301 Pediatrics

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to further their understanding of pediatrics. Students focus on inpatient and outpatient medical management of infants and children to prepare for more advanced study of the discipline.

Credits: 4 Type: Clerkship

PEDS 401 Neonatology (E)

COM, D.O.

This elective clerkship provides students experience in admitting and managing patients in pediatric and neonatal intensive care units.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 401s Neonatology (S)

COM, D.O.

This sub-internship provides students experience admitting and managing patients in pediatric and neonatal intensive care units.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 402 Pediatric Infectious Diseases (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric infectious diseases.

Credits: 4 Type: Clerkship

PEDS 402s Pediatric Infectious Diseases (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric infectious disease.

Credits: 4 Type: Clerkship

PEDS 403 Pediatric Hematology/Oncology (E)

COM, D.O.

This elective clerkship provides an introduction to common hematologic problems and the management of more difficult and unusual hematological and oncologic problems of pediatric patients.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 403s Pediatric Hematology/Oncology (S)

COM, D.O.

This sub-internship clerkship provides an introduction to common hematologic problems and the management of more difficult and unusual hematological and oncologic problems of pediatric patients.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 404 Pediatric Pulmonary Medicine (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric pulmonary diseases.

Credits: 4 Type: Clerkship

PEDS 404s Pediatric Pulmonary Medicine (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric pulmonary disease.

Credits: 4 Type: Clerkship

PEDS 405 Pediatric Gastroenterology (E)

COM, D.O.

This elective rotation is designed to provide students experience in the management of a variety of acute and chronic diseases of the intestinal tract and liver.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 405s Pediatric Gastroenterology (S)

COM, D.O.

This sub-internship provides students experience in the management of a variety of acute and chronic diseases of the intestinal tract and liver.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 406 Pediatric Neurology (E)

COM, D.O.

This elective rotation provides students opportunities to improve evaluation and management skills for neurological problems of infancy, childhood, and adolescents.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 406s Pediatric Neurology (S)

COM, D.O.

This sub-internship provides students opportunities to improve evaluation and management skills for neurological problems of infancy, childhood, and adolescents.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 407 Pediatric Rheumatology (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric rheumatology.

Credits: 4 Type: Clerkship

PEDS 407s Pediatric Rheumatology (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric rheumatology.

Credits: 4 Type: Clerkship

PEDS 408 Pediatric Genetics (E)

COM, D.O.

This elective provides students clinical opportunities to focus on the evaluation and management of children with genetic disorders. Students will be exposed to genetic counseling, the evaluation of children with hereditary structural defects, and diagnosis and management of children with inborn errors of metabolism and developmental defects including common dysmorphologies.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 408s Pediatric Genetics (S)

COM, D.O.

This elective provides students clinical opportunities to focus on the evaluation and management of children with genetic disorders. Students will be exposed to genetic counseling, the evaluation of children with hereditary structural defects, and diagnosis and management of children with inborn errors of metabolism and developmental defects including common dysmorphologies.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 409 Pediatric Critical Care Medicine (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric critical care medicine.

Credits: 4 Type: Clerkship

PEDS 409s Pediatric Critical Care Medicine (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric critical care medicine.

Credits: 4 Type: Clerkship

PEDS 410 Adolescent Medicine (E)

COM, D.O.

This elective clerkship introduces students to the unique medical and emotional problems of the adolescent age group within the framework of normal growth and development. Training may include a range of experiences including obtaining patient histories, performing thorough physical examinations, formulating differential diagnoses, learning to make decisions based on appropriate laboratory and radiological studies and procedures, communicating with patients and members of the health care team.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 410s Adolescent Medicine (S)

COM, D.O.

This sub-internship clerkship introduces students to the unique medical and emotional problems of the adolescent age group within the framework of normal growth and development. Training may include a range of experiences including obtaining patient histories,

performing thorough physical examinations, formulating differential diagnoses, learning to make decisions based on appropriate laboratory and radiological studies and procedures, communicating with patients and members of the health care team at a more advanced level than the elective clerkship offering.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 411 General Pediatrics (E)

COM, D.O.

This elective clerkship will provide students with additional experience with pediatric populations and may comprise inpatient, ambulatory, community, and nursery experiences depending upon the clerkship site. The clerkship will emphasize skills and knowledge required for general pediatrics.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 411s General Pediatrics (S)

COM, D.O.

This sub-internship elective will provide students with additional experience with pediatric populations and may comprise inpatient, ambulatory, community, and nursery experiences depending upon the clerkship site. The clerkship will emphasize skills and knowledge required for general pediatrics.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 412 Pediatric Cardiology (E)

COM, D.O.

This elective clerkship will expose students to a variety of children with suspected or confirmed congenital heart disease. Emphasis will be on history-taking, physical examination, and interpretation of electrocardiograms and X-rays, and may include exposure to echocardiography, cardiac catheterization, and electrophysiologic studies.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 412s Pediatric Cardiology (S)

COM, D.O.

This sub-internship clerkship will expose students to a variety of children with suspected or confirmed congenital heart disease. Emphasis will be on history-taking, physical examination, and interpretation of electrocardiograms and X-rays; may include exposure to echocardiography, cardiac catheterization, and electrophysiologic studies at a more advanced level than the elective clerkship offering under the same course ID.

Prereq: Successful completion of PEDS 301.

Credits: 4 Type: Clerkship

PEDS 413 Pediatric Dermatology (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric dermatology.

Credits: 4 Type: Clerkship

PEDS 413s Pediatric Dermatology (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric dermatology.

Credits: 4 Type: Clerkship

PEDS 414 Pediatric Nephrology (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric nephrology.

Credits: 4 Type: Clerkship

PEDS 414s Pediatric Nephrology (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric nephrology.

Credits: 4 Type: Clerkship

PEDS 415 Developmental Pediatrics (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in developmental pediatrics.

Credits: 4 Type: Clerkship

PEDS 415s Developmental Pediatrics (S)

COM, D.O.

This clerkship is offered as a sub-internship in developmental pediatrics.

Credits: 4 Type: Clerkship

PEDS 416 Pediatric Endocrinology/Metabolism (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric endocrinology/metabolism.

Credits: 4 Type: Clerkship

PEDS 416s Pediatric Endocrinology/Metabolism (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric endocrinology/metabolism.

Credits: 4 Type: Clerkship

PEDS 417 Pediatric Allergy/Immunology (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in pediatric allergy/immunology.

Credits: 4 Type: Clerkship

PEDS 417s Pediatric Allergy/Immunology (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric allergy/immunology.

Credits: 4 Type: Clerkship

PEDS 418 Pediatric Emergency Medicine (E)

COM, D.O.

This elective reinforces previously learned skills and principles of addressing the undifferentiated emergency patient. Students acquire the skills to recognize truly ill patients requiring further inpatient management and distinguish them from those who can be treated and discharged.

Prereq: Successful completion of PEDS 301 and EMED 401.

Credits: 4 Type: Clerkship

PEDS 418s Pediatric Emergency Medicine (S)

COM, D.O.

This clerkship is offered as a sub-internship in pediatric emergency medicine.

Credits: 4 Type: Clerkship

PEDS 419 Community Pediatrics (E)

COM, D.O.

This elective clerkship is designed to provide students with the opportunity to participate in clinical observation and training in general pediatrics from a community-based perspective either at a health center or a school-based clinic.

Credits: 4 Type: Clerkship

PEDS 419s Community Pediatrics (S)

COM, D.O.

This clerkship is offered as a sub-internship in community pediatrics.

Credits: 4 Type: Clerkship

PEDS 420 Medicine/Pediatrics (E)

COM, D.O.

This elective clinical experience is designed to provide students with clinical exposure, observation and training to further their understanding of medicine/pediatrics. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 4 Type: Clerkship

PEDS 420s Medicine/Pediatrics (S)

COM, D.O.

This sub-internship offers a fourth-year clinical experience designed to provide students with an increased level of patient care responsibility to further their understanding of medicine/pediatrics. Students serve as the primary physician under direct supervision of the attending, faculty or resident physician and may perform simple diagnostic procedures. Focus is on self-education and more advanced study of the discipline. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally outlined in the course curriculum.

Credits: 4 Type: Clerkship

PEDS 499 Pediatric Research (E)

COM, D.O.

Student research in an area of interest within pediatrics that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

PHAR 101 Deconstruct NSAID Anti-Inflam Drugs (E)

COM, D.O.

This course will introduce the history and development of non-steroidal anti-inflammatory drugs (NSAIDs); the basis for their clinical efficacy/safety, especially their cardiovascular, renal and hepatic side-effects; the dominant molecular hypothesis that shapes the controversy over their cardiovascular safety, their use in cancer prevention and the evidence for OMT as an alternative/complement to NSAIDs. This course will reinforce knowledge gained in cardiovascular and musculoskeletal sections of the curriculum and anticipate some of the content in the gastrointestinal sections of the curriculum.

Credits: 1 Type: Course

PHAR 199 Pharmacology Research (E)

COM, D.O.

This elective provides a framework within which MSI students may engage in pharmacology research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credit. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Credit value is variable from 2-5 semester credits. May be repeated for credit for a maximum of 15 credits.

Prereq: Instructor Permission

Credits: 2 Type: Course

PHAR 202 Study Designs & Medical Lit Eval (E)

COM, D.O.

This elective course will introduce students to the various study designs commonly utilized by medical researchers and published

in the medical literature. Students will be given the opportunity to learn how to systematically review the medical literature and to determine if the findings of a publication are scientifically sound, generalizable, and useable for changes in the care of the patients. Students will also be given the opportunity to practice board-relevant exam questions, as a group, to formally assess their knowledge-based improvement at the end of the course.

Credits: 1 Type: Course

PHAR 215 Basic Pharm/Pharmacotherapeutics (E)

COM, D.O.

This elective is intended to provide a framework within which MSII students may integrate the principles of basic pharmacology, evidence-based medicine guidelines and best practices in the treatment of patients within clinical scenarios.

Credits: 0.5 Type: Course

PHAR 299 Pharmacology Research (E)

COM, D.O.

This elective provides a framework within which MSII students may engage in pharmacology research projects or a variety of activities related to such research at KCU or other approved institution(s), and receive academic credits. Students are expected to participate in an ongoing research project or conduct their own study under approved mentorship. Credit value is variable 2-10 semester credits per term. May be repeated for credit up to a maximum of 30 credits.

Prereq: Instructor Permission

Credits: 2 Type: Course

PHAR 499 Pharmacology Research (E)

COM, D.O.

Student research in an area of interest within pharmacology that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

PHYS 110 Exercise Counseling by Physicians (E)

COM, D.O.

This elective course will provide students with the knowledge, skills, and tools essential for prescribing exercise to their patients. Emphasis will be placed on how to accomplish this task within the primary setting.

Credits: 0.5 Type: Course

PHYS 120 Core Concepts in Physiology I (E)

COM, D.O.

Core Concepts in Physiology I is designed to increase first year medical students' mastery of physiology as taught in Foundations of Medicine and Musculoskeletal. This course relies heavily on independent learning to review the core concepts required to understand future physiology material and to ensure that the students are able to use the concepts in critical thinking/diagnostic reasoning as required in future sections.

Credits: 1 Type: Course

PHYS 121 Core Concepts in Physiology II

COM, D.O.

This one-week intensive elective course is intended for MS-1 students whose self-assessments or test performance/discipline mastery reports indicate the need for additional assistance to master basic cardiorespiratory physiology before future sections and boards. This course will utilize technology-enhanced teaching and independent learning to cover topics such as ventilation/perfusion (V/Q) inequalities and cardiac/respiratory cycles; beginning with a brief review of the basic physiology and then moving to exercised designed to develop the student's ability to apply the information using critical reasoning skills as required in future sections of the KCU curriculum and COMLEX.

Credits: 1 Type: Course

PHYS 212 Foundations of Health Promotion

COM, D.O.

The purpose of this elective course is to promote a personal and professional attitude that will improve the health of the participant and influence treatment of their future patients. Three areas will be emphasized including nutrition, exercise and stress management. A series of lectures, assignments and directed studies are associated with the course.

Credits: 0.5 Type: Course

PHYS 213 Advanced Topics in Physical Activity (E)

COM, D.O.

This elective is designed for students with interests in human performance, exercise physiology and sports medicine. This course is also available to Graduate level students as PHYS 513.

Prereq: Permission of the instructor

Credits: 1 Type: Course

PHYS 215 Clinical Pathophysiology (E)

COM, D.O.

This elective is designed to prepare students to understand the pathophysiology behind common, specific patient presentations. It will allow the student to draw on this understanding to more effectively diagnose and treat the patient.

Credits: 1 Type: Course

PHYS 499 Physiology Research (E)

COM, D.O.

Student research in an area of interest within physiology that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

PMED 104 Intro to PASW (SPSS) & Biomedical Statistics

COM, D.O.

This course is intended to provide advanced exposure and instruction on biomedical statistics and research methodology along with hands-on experience in data management and statistical analysis using PASW (SPSS) Windows-based statistical software. Students learn to enter, import, define, manipulate, transform, re-code, combine, and calculate variables; assess normality of data, generate descriptive and inferential statistical analyses and associated output, export output, and be provided exposure to test interpretation.

Prereq: Acceptance into KCU Student Summer Research Fellowship or permission of instructor.

Credits: 1 Type: Course

PMED 204 Data Management using SPSS

COM, D.O.

Student summer research fellows and staff/faculty will develop a basic understanding of SPSS. Students will be able to calculate frequencies, crosstabulations, Student's t-tests, analysis of variance, regression analysis, and Chi-square test and be familiar with interpreting the data. Emphasis will be placed on the ability to collect, enter and analyze data using SPSS software.

Credits: 1 Type: Course

PMED 401 General Preventive Medicine (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in preventive medicine.

Credits: 4 Type: Clerkship

PMED 401s General Preventive Medicine (S)

COM, D.O.

This clerkship is designed to provide students with the opportunity to participate in clinical observation and training in preventive medicine as a sub-internship.

Credits: 4 Type: Clerkship

PMED 402 Occupational Medicine (E)

COM, D.O.

This elective clerkship provides exposure to a specialty concerned with healthcare of individuals in the workplace, home, and community. The elective will include recognition of hazards in the workplace and evaluation of individuals with occupational illness and injury. Participants will gain an understanding of the role of medical surveillance and prevention in workforce healthcare.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 402s Occupational Medicine (S)

COM, D.O.

This sub-internship provides students exposure to a specialty concerned with healthcare of individuals in the workplace, home, and community. The elective will include recognition of hazards in the workplace and evaluation of individuals with occupational illness and injury. Participants will gain an understanding of the role of medical surveillance and prevention in workforce healthcare.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 403 Public Health (E)

COM, D.O.

This elective clerkship allows students to become familiar with the important public health responsibilities of a community health department. Participants learn about the relationships between clinical practice and public health and the impact of policies on health care and health outcomes.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 403s Public Health (S)

COM, D.O.

This sub-internship allows students to become familiar with the important public health responsibilities of a community health department. Participants will learn about the relationships between clinical practice and public health and the impact of policies on health care and health outcomes.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 404 Environmental Health (E)

COM, D.O.

This elective clerkship allows students to become familiar with diagnosis, management, and investigation of environmentally-related diseases.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 404s Environmental Health (S)

COM, D.O.

This sub-internship allows students to become familiar with diagnosis, management, and investigation of environmentally-related diseases.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 405 Aerospace Medicine

COM, D.O.

This elective clerkship provides students exposure to a specialty concerned with the determination and maintenance of the health, safety and performance of those who fly in the air or in space with emphasis on the effects of the environmental and vehicular stresses on those who fly.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 405s Aerospace Med (Sub-I)

COM, D.O.

This sub-internship provides students exposure to a specialty concerned with the determination and maintenance of the health, safety and performance of those who fly in the air or in space with emphasis on the effects of the environmental and vehicular stresses on those who fly.

Prereq: Successful completion of FMED 302 and IMED 302.

Credits: 4 Type: Clerkship

PMED 499 Preventive Medicine Research (E)

COM, D.O.

This elective rotation is designed to provide the opportunity to participate in research in preventive medicine/public health. Research opportunities may focus on clinical or classical epidemiology. The department has several ongoing research projects.

Credits: 1 Type: Clerkship

PSYC 301 Psychiatry

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to further their understanding of psychiatry. Students focus on assisting with the treatment and medical management of patients with psychiatric disorders to better understand mental health and illness to prepare for more advanced study of the discipline.

Credits: 4 Type: Clerkship

PSYC 401 General Psychiatry (E)

COM, D.O.

This elective clerkship introduces students to patients with mental illness and prepares them to provide general psychiatric care. Students will improve their ability to take a psychiatric history, conduct a mental status exam, formulate a biopsychosocial assessment, develop differential diagnoses, and formulate a treatment plan.

Prereq: Successful completion of PSYC 301.

Credits: 4 Type: Clerkship

PSYC 401s General Psychiatry (S)

COM, D.O.

This sub-internship introduces students to patients with mental illness and prepares them to provide general psychiatric care. Students will improve their ability to take a psychiatric history, conduct a mental status exam, formulate a biopsychosocial assessment, develop differential diagnoses, and formulate a treatment plan.

Prereq: Successful completion of PSYC 301.

Credits: 4 Type: Clerkship

PSYC 402 Pediatric Psychiatry (E)

COM, D.O.

This elective clerkship introduces commonly encountered psychiatric disorders of childhood. Students will gain additional experience interviewing children, adolescents, and families as well as enhanced diagnostic skills for psychiatric illness in children and adolescents.

Prereq: Successful completion of PSYC 301 and PEDS 301.

Credits: 4 Type: Clerkship

PSYC 402s Pediatric Psychiatry (S)

COM, D.O.

This sub-internship introduces students to commonly encountered psychiatric disorders of childhood. Students will gain additional experience interviewing children, adolescents, and families as well as enhanced diagnostic skills for psychiatric illness in children and adolescents.

Prereq: Successful completion of PSYC 301 and PEDS 301.

Credits: 4 Type: Clerkship

PSYC 499 Psychiatry Research (E)

COM, D.O.

Student research in an area of interest within psychiatry that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

RADI 220 CCP: General Radiology

COM, D.O.

This elective clinical care practicum is a clinical experience designed to provide shadowing opportunities for students to further observe skills learned in the first-year curriculum. These skills include taking a medical history, performing a physical exam, and exposure to the business side of medicine in a private practice.

Credits: 2 Type: Independent Study

RADI 401 General Radiology (E)

COM, D.O.

This elective clerkship introduces a working knowledge of the role that each medical imaging modality plays with respect to the diagnostic evaluation and treatment of patients. Students practice image interpretation and gain an appreciation of how different examinations are performed. It also underscores the concepts of medical imaging science, instrumentation, and radiation safety.

Credits: 4 Type: Clerkship

RADI 401s General Radiology (S)

COM, D.O.

This clerkship is designed to provide students with the opportunity to participate in clinical observation and training in radiology as a sub-internship.

Credits: 4 Type: Clerkship

RADI 402 Pediatric Radiology (E)

COM, D.O.

This elective introduces students to specialized clinical science and techniques to facilitate effective diagnostic radiologic examination of infants, children and adolescents.

Credits: 4 Type: Clerkship

RADI 402s Pediatric Radiology (S)

COM, D.O.

This sub-internship introduces students to specialized clinical science and techniques to facilitate effective diagnostic radiologic examination of infants, children and adolescents.

Credits: 4 Type: Clerkship

RADI 403 Nuclear Medicine (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in nuclear medicine.

Credits: 4 Type: Clerkship

RADI 403s Nuclear Medicine (S)

COM, D.O.

This clerkship is designed to provide students with the opportunity to participate in clinical observation and training in nuclear medicine as a sub-internship.

Credits: 4 Type: Clerkship

RADI 404 Interventional Radiology (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in interventional radiology.

Credits: 4 Type: Clerkship

RADI 404s Interventional Radiology (S)

COM, D.O.

This clerkship is designed to provide students with the opportunity to participate in clinical observation and training in interventional radiology as a sub-internship.

Credits: 4 Type: Clerkship

RADI 405 Body Imaging (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in body imaging.

Credits: 4 Type: Clerkship

RADI 405s Body Imaging (S)

COM, D.O.

This clerkship is designed to provide students with the opportunity to participate in advanced study in body imaging as a sub-internship.

Credits: 4 Type: Clerkship

RADI 406 Radiation Oncology (E)

COM, D.O.

Students will rotate in elected clinical settings to fulfill course requirements. Radiology preceptors will specify site requirements and see that students are provided with an appropriate level of clinical and didactic experiences. In order to successfully complete the clinical experience, all students must fulfill requirements specified by their preceptor and complete the required elements of the standardized curriculum. In fulfilling these requirements, students will gain an appreciation for appropriate utilization of a variety of diagnostic and treatment modalities. Required reading assignments are provided.

Credits: 4 Type: Clerkship

RADI 406s Radiation Oncology (S)

COM, D.O.

In this sub-internship, students will rotate in elected clinical settings to fulfill course requirements. Radiology preceptors will specify site requirements and see that students are provided with an appropriate level of clinical and didactic experiences. In order to successfully complete the clinical experience, all students must fulfill requirements specified by their preceptor and complete the required elements of the standardized curriculum. In fulfilling these requirements, students will gain an appreciation for appropriate utilization of a variety of diagnostic and treatment modalities. Required reading assignments are provided.

Credits: 4 Type: Clerkship

RADI 499 Radiology Research (E)

COM, D.O.

Student research in an area of interest within radiology under the direction of a member of the faculty.

Credits: 1 Type: Independent Study

ROTA 3a 3rd Year Rotation Block - Fall Term

COM, D.O.

Generic course code utilized for full-time registration status for third year students, Fall term. This course code will be removed after the term ends and the Office of Clinical Rotations provides the Registrar with the specific rotations taken for each student, along with their corresponding final grades.

Credits: 20 Type: Clerkship

ROTA 3b 3rd Year Rotation Block - Spring Term

COM, D.O.

Generic course code utilized for full-time registration status for third year students, Spring term. This course code will be removed after the term ends and the Office of Clinical Rotations provides the Registrar with the specific rotations taken for each student, along with their corresponding final grades.

Credits: 20 Type: Clerkship

ROTA 3c ROTA 3c

COM, D.O.

This serves as a placeholder clerkship for the third year, summer term, until such a time that the clerkship details are provided for transcript inclusion. Placeholder is removed when term details are confirmed.

Credits: 5 Type: Clerkship

ROTA 4a 4th Year Rotation Block - Fall Term

COM, D.O.

Generic course code utilized for full-time registration status for Fourth year students, Fall term. This course code will be removed after the term ends and the Office of Clinical Rotations provides the Registrar with the specific rotations taken for each student, along with their corresponding final grades.

Credits: 25 Type: Clerkship

ROTA 4b 4th Year Rotation Block - Spring Term

COM, D.O.

Generic course code utilized for full-time registration status for Fourth year students, Spring term. This course code will be removed after the term ends and the Office of Clinical Rotations provides the Registrar with the specific rotations taken for each student, along with their corresponding final grades.

Credits: 25 Type: Clerkship

ROTA 4c ROTA 4c

COM, D.O.

This is a placeholder for fourth year clerkships for the Spring term. Placeholder is deleted once the course details are provided. Since fourth year students start immediately after third year, that means they actually start their fourth year with the Summer semester. Consequently, ROTA 4c is the first placeholder in the fourth year curriculum sequence. It can also be used when students are late graduates and take clerkships after the traditional commencement date of their intended graduation year.

Credits: 10 Type: Clerkship

Surg 220 ECE/Surgery (E)

COM, D.O.

This course is designed to provide students with early clinical exposure, supervised observation and training to further their understanding of surgery. The experience takes place in a wide variety of clinical, office and hospital settings presenting unique opportunities with regard to the spectrum of clinical situations encountered. Specific goals and learning objectives are generally determined by the student in conjunction with the supervising physician.

Credits: 2 Type: Independent Study

SURG 301 Surgery I

COM, D.O.

This required clerkship provides students with clinical exposure, observation and training to further their understanding of general surgery. Students focus on active participation in the care of surgical patients in the operating room, the clinic and office.

Credits: 4 Type: Clerkship

SURG 302 Surgery II

COM, D.O.

This required clerkship provides students with a continuation of clinical exposure, observation and training to further develop understanding and skills in general surgery. Students actively participate in the care of patients in various stages of evaluation and treatment. These include, but are not limited to, preoperative visits, inpatient admission, operative procedures, and inpatient and outpatient recovery. Students participate as members of a multidisciplinary team responsible for patient care.

Credits: 4 Type: Clerkship

SURG 401 General Surgery (E)

COM, D.O.

This elective clerkship is an extension of the required third year surgery clerkship series (SURG 301 & 302) and will stress the pathophysiology and management of problems commonly encountered in the care of surgical patients.

Credits: 4 Type: Clerkship

SURG 401s General Surgery (S)

COM, D.O.

This sub-internship elective expands upon the required third year surgery clerkship series (SURG 301 & 302) and will stress the pathophysiology and management of problems commonly encountered in the care of surgical patients.

Credits: 4 Type: Clerkship

SURG 402 Cardiovascular Surgery (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in cardiovascular surgery.

Credits: 4 Type: Clerkship

SURG 402s Cardiovascular Surgery (S)

COM, D.O.

This clerkship is offered as a sub-internship in cardiovascular surgery.

Credits: 4 Type: Clerkship

SURG 403 Otolaryngology/ENT (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in ENT.

Credits: 4 Type: Clerkship

SURG 403s Otolaryngology/ENT (S)

COM, D.O.

This clerkship is offered as a sub-internship in ENT.

Credits: 4 Type: Clerkship

SURG 404 Ophthalmology (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in ophthalmology.

Credits: 4 Type: Clerkship

SURG 404s Ophthalmology (S)

COM, D.O.

This clerkship is offered as a sub-internship in ophthalmology.

Credits: 4 Type: Clerkship

SURG 405 Thoracic Surgery (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in thoracic surgery.

Credits: 4 Type: Clerkship

SURG 405s Thoracic Surgery (S)

COM, D.O.

This clerkship is offered as a sub-internship in thoracic surgery.

Credits: 4 Type: Clerkship

SURG 406 Urology (E)

COM, D.O.

This elective provides students with an introduction to the diagnosis and management of benign and malignant disease of the urogenital system.

Credits: 4 Type: Clerkship

SURG 406s Urology (S)

COM, D.O.

This clerkship is offered as a sub-internship in the diagnosis and management of benign and malignant disease of the urogenital system.

Credits: 4 Type: Clerkship

SURG 407 Neurosurgery (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in neurosurgery.

Credits: 4 Type: Clerkship

SURG 407s Neurosurgery (S)

COM, D.O.

This clerkship is offered as a sub-internship in neurosurgery.

Credits: 4 Type: Clerkship

SURG 408 Transplant Medicine (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in transplant medicine.

Credits: 4 Type: Clerkship

SURG 408s Transplant Medicine (S)

COM, D.O.

This clerkship is offered as a sub-internship in transplant medicine.

Credits: 4 Type: Clerkship

SURG 409 Plastic Surgery (E)

COM, D.O.

This elective rotation is designed to provide students with the opportunity to participate in clinical observation and training in plastic surgery.

Credits: 4 Type: Clerkship

SURG 409s Plastic Surgery (S)

COM, D.O.

This clerkship is offered as a sub-internship in plastic surgery.

Credits: 4 Type: Clerkship

SURG 410 Orthopedic Surgery (E)

COM, D.O.

This elective clerkship is a four-week experience in the management of injury and illness of the musculoskeletal system. The student may be required to travel to the clinic, outpatient surgery center and/or hospital facility during his/her rotation time.

Credits: 4 Type: Clerkship

SURG 410s Orthopedic Surgery (S)

COM, D.O.

This sub-internship is a four-week experience in the management of injury and illness of the musculoskeletal system. The student may be required to travel to the clinic, outpatient surgery center and/or hospital facility during his/her rotation time.

Credits: 4 Type: Clerkship

SURG 411 Proctology (E)

COM, D.O.

This elective provides students with an introduction to the multidisciplinary management of benign and malignant disease of the colon, rectum and anus.

Credits: 4 Type: Clerkship

SURG 411s Proctology (S)

COM, D.O.

This sub-internship provides students with an introduction to the multidisciplinary management of benign and malignant disease of the colon, rectum and anus.

Credits: 4 Type: Clerkship

SURG 412 Trauma Surgery (E)

COM, D.O.

This elective provides students the opportunity to gain experience in evaluating, stabilizing and treating the blunt and penetrating trauma patient.

Credits: 4 Type: Clerkship

SURG 412s Trauma Surgery (S)

COM, D.O.

This sub-internship provides students opportunities to gain experience in evaluating, stabilizing and treating the blunt and penetrating trauma patient.

Credits: 4 Type: Clerkship

SURG 413 Pediatric Surgery (E)

COM, D.O.

This elective provides students opportunities to better understand the management of surgical diseases in pediatric patients.

Credits: 4 Type: Clerkship

SURG 413s Pediatric Surgery (S)

COM, D.O.

This sub-internship provides students opportunities to better understand the management of surgical diseases in pediatric patients.

Credits: 4 Type: Clerkship

SURG 499 Surgery Research (E)

COM, D.O.

Student research in an area of interest within surgery that is under the direction of a member of the faculty.

Credits: 1 Type: Independent Study