

The primary mission of the Quillen College of Medicine at East Tennessee State University (ETSU) is to educate future physicians to practice in underserved rural communities, especially those with an interest in primary care. In addition, the College is committed to excellence in biomedical research and is dedicated to the improvement of health care in Northeast Tennessee and the surrounding Appalachian region.

PRE-MEDICAL PROGRAM

There are no specific courses required for admission to the Quillen College of Medicine. Students wishing to prepare for professional training at institutions other than ETSU should consult the websites of those institutions to determine the specific preparation required for admission.

Although the BA/BS degree is not required for admission to the Quillen College of Medicine, nearly all students accepted for the study of medicine have the baccalaureate degree prior to enrollment. The following is a suggested sequence of courses. Please note that the *Arts and Sciences Curriculum Guide and Advising Handbook* contains course options for communicating through writing, communicating orally, foreign language, social sciences, arts and humanities, non-US history, global challenges, and connections. All students pursuing a degree must complete the University General Education Requirement.

Based on 2016/2017 Curriculum

	CREDIT HOURS
FRESHMAN	
English 101-102 or equivalent	6
Biology 150 (or 158) (see Note 1)	3
Biology 160 (or 169) and 159	5
Chemistry 120-130 (or 128-138) (see Note 2)	8
Mathematics (see Note 3)	6-8
Communicating Orally (OC)	<u>3</u>
	31-33
SOPHOMORE	
Chemistry 350-360 and 369	8
Physics 221-222	8
Foreign Language (Intermediate Level Sequence - see Note 4)	6
Arts and Humanities (see Note 5)	3
Non-US History	<u>6</u>
	31
JUNIOR	
Biology 240	4
Biochemistry & Cellular & Molecular Biology 401	4
Arts and Humanities (see Note 5)	3
Communicating through Writing (WC)	3
Global Challenges	0-3
Social Sciences (see Note 6)	6
Connections (see Note 7)	9
Electives (see Note 8)	<u>0-4</u>
	29-33
TOTAL: 90 hours minimum	

SENIOR

Completion of major program and BA/BS requirements or completion of one year at UT Health Science Center in Memphis

TOTAL: 120 hours minimum

Note 1: Pre-medicine students who have previously completed Biology 101 and 102 may substitute this sequence for Biology 150 if they are not

pursuing a Biological Sciences major.

- Note 2: The recommended freshman schedule for pre-medical students includes both biology and chemistry. This allows students to complete all required and recommended courses by the end of the junior year. A student, however, should carefully consider his/her high school math and science background and level of commitment to the pre-medical program before enrolling in both of these sequences. The pre-requisite to Chemistry 120 is Math 119 (College Algebra) or an ACT math subscore of 25.
- Note 3: Math 130 or any calculus course is required as a prerequisite for Physics 221-222. If a student is considering a major in a biological or physical science, he/she should consult an advisor on the selection of the appropriate math sequence. Math placement depends on high school courses and grades, ACT scores, and BA/BS requirements. Students should consult the undergraduate catalog for a complete list of mathematics courses that satisfy the University General Education Requirement.
- Note 4: This requirement assumes a student has had enough language background in high school to begin an intermediate language sequence at UT.
- Note 5: Students must select one course from List A and one course from List A or B, representing different departments.
- Note 6: Students must complete a minimum of two courses from at least two departments. To prepare for the MCAT, students should select Psychology 110 and Sociology 120 to satisfy the University General Education Requirement in Social Science.
- Note 7: Students will satisfy the Connections requirement by completing one of the following: a minor or second major, nine credit hours through a study abroad program, or nine hours from a Connections package.
- Note 8: Depending on course selection a student may require less than the listed elective hours to reach the minimum total of 90 hours. Recommended courses include: Biology 220-229 *General Microbiology and Lab*; EEB 240 *Human Anatomy*; BCMB 402 *Biochemistry II*; 440 *General Physiology*.

FOUNDATIONS AND PERSPECTIVES REQUIREMENTS

Students seeking a degree from the College of Arts and Sciences must meet all college requirements, including credit hours, residency and Foundations and Perspectives requirements. With the exception of the social science requirement, there is no preferred way for a pre-medical student to fulfill the general requirements. The pre-medical student should keep in mind that the Medical College Admissions Test (MCAT) includes a section entitled Critical Analysis and Reasoning Skills; therefore, courses which emphasize these skills (literature, history, philosophy, etc.) should be included in the student's program.

STUDENTS IN OTHER COLLEGES

Students who are currently enrolled in another college, i.e., Engineering or Education, do not have to fulfill Foundations and Perspectives requirements, but are required to take the following minimum courses for admission to most medical schools:

- English 101-102
- Biology 150-160, 159
- Chemistry 120-130
- Chemistry 350-360 and 369
- Physics 221-222 (231-232 for engineering students only)

The following courses are not required by most medical schools, but their content is included on the MCAT.

Biology 240
Biochemistry and Cellular and Molecular Biology 401
Psychology 110, Sociology 120

Note that the courses listed above constitute the *minimum* requirements for most medical schools. Pre-medical students should review the websites of medical schools they are considering and consult a health professions advisor on a regular basis in 313 Ayres Hall.

SELECTION CRITERIA AT THE QUILLEN COLLEGE OF MEDICINE

No specific courses at the undergraduate level are required for admission to Quillen College of Medicine. Rather, applicants are encouraged to pursue their own intellectual interests in completing a broadly based undergraduate education demonstrating scholastic rigor, analytic and critical thinking, an aptitude for understanding complex systems in human biology, and the ability to apply knowledge.

Quillen welcomes applications from excellent students regardless of major or course of study; however, completion of a minimum of 90 semester hours of undergraduate coursework at a regionally accredited college or university is required to be eligible for admission. Additionally, all applicants are required to submit scores from the Medical College Admissions Test (MCAT). Acceptable scores may not be more than two years old. Undergraduate GPA, strength of curriculum, and scores on the MCAT are evaluated as important indicators of probable academic success. Competitive performance on the MCAT requires adequate preparation in general biology, general and organic chemistry, biochemistry, algebraic and trigonometric quantitative skills, and relevant physical science. Appropriate preparation is strongly advised. The ability to read and comprehend information at a rapid pace is of great value.

Applicants should demonstrate scientific curiosity and enthusiasm for life-long learning. The continuum of scientific discovery that impacts diagnostic and therapeutic practice requires that applicants have an adequate preparation in the pre-clinical sciences, particularly in biochemistry, biomolecular mechanisms and genetics. In addition, the Admissions Committee looks for a broad educational foundation in the behavioral and social sciences, humanities, literature, and the fine arts.

The Committee also values extra-curricular experiences that provide insights into altruism, community service and leadership endeavors, and activities reflecting an understanding of human behavior, ethics, and cultural awareness.

The Admissions Committee will continue to evaluate applicants based on the holistic principle of seeking a person who is well-rounded and gives promise of success not only in the curriculum, but to an even greater degree, in the practice of the profession they seek to enter. Because Quillen College of Medicine is a state-supported institution, preference for admission is given to U.S. citizens who are Tennessee residents. Applications from residents of Tennessee, the immediate service area, and well-qualified minorities from across the nation are encouraged. Additionally, the college gives preference to veterans of U.S. military service and to applicants who have received at least a baccalaureate degree from a regionally accredited institution prior to matriculation.

CLEP AND ADVANCED PLACEMENT

A student who has been awarded advanced placement credit, CLEP credit, or other non-traditional credit in required science courses by a regionally accredited college or university will

have those credits honored at Quillen College of Medicine.

PROGRAM PLANNING AND ACADEMIC ADVISING

The importance of program planning for the pre-medical student cannot be overstressed. These students should develop their programs carefully and creatively in order to both prepare for medical school and pursue a degree in the College of Arts and Sciences. Pre-health advisors are available to assist the student with program planning; however, in the final analysis, it is the student's responsibility to determine the program which will best satisfy his/her particular needs.

Because admission to all medical schools is competitive, the pre-medical student is strongly urged to select a major which will provide alternatives in the event admission to medical school is not achieved. The student may select a major from any of the nine undergraduate colleges at the University.

Advisors are available in Arts and Sciences Advising Services, 313 Ayres Hall, to assist pre-medical students as they plan their programs. When a student declares a major, he/she should obtain an advisor in the department of the declared major, but should continue to consult with the pre-med advisors in Arts and Sciences Advising Services about the pre-medical program.

A representative from the Quillen College of Medicine visits the UTK campus once or twice a year to discuss with interested pre-medical students their plans for attending medical school. Students on the pre-health distribution list (see AED section below) will be notified when the representative is coming to campus.

ALPHA EPSILON DELTA (AED)

Alpha Epsilon Delta is a pre-health honor society that seeks to provide information and opportunities for students with an interest in the health professions. The Tennessee Beta Chapter of AED is active at The University of Tennessee. AED activities include information sessions on preparing to apply to professional schools, local speakers from the medical community, trips to Tennessee medical schools and health centers, and service activities. The schedule of meetings is available at <http://web.utk.edu/~aed/>.

Requirements for national membership include three terms of college (at least one at UT), a cumulative GPA of 3.2, a science GPA of 3.2, and participation in AED sponsored events and meetings. Students interested in AED should first affiliate themselves with the organization as a pledge during the first semester of college attendance at UT. Applications for both pledge status and national membership are available in Arts and Sciences Advising Services, 313 Ayres Hall, and at the organizational website.

Students who do not meet the criteria to become national members may continue as a pledge. Pre-health students wishing to receive notification of pre-health activities and AED events should send an e-mail to mhoskins@utk.edu to request to be added to the pre-health distribution list.

PRE-PROFESSIONAL FILE

During the junior year, students should attend a pre-professional file group meeting to learn about setting up the pre-professional file. Group meetings are scheduled weekly in Arts and Sciences Advising Services, 313 Ayres Hall. In the meeting, students are given information on pre-professional

evaluations, AMCAS, and other aspects of the medical school application process.

The most important aspect of the file is the letters of evaluation requested from faculty members who have known the student during his or her undergraduate studies. Two of the evaluations should come from faculty members teaching in science-based disciplines. Students should become well acquainted with their professors prior to requesting the evaluations. Once the file is started, students should keep in touch with the health professions secretary to check on the status of the file and to provide updated contact information.

For the purposes of AMCAS, the file prepared in Arts and Sciences is considered a *letter packet*. For the purposes of AACOMAS, the file prepared in Arts & Sciences Advising Services is considered a committee letter. For both services, the primary contact is the chair of the health professions, Mary Anne Hoskins. For a file to be released to AMCAS or AACOMAS, the pre-medical student must sign a release form. Students applying to medical schools via AMCAS should also provide a copy of the AMCAS Letter Request Form to the staff in 313 Ayres Hall.

HEALTH CARE EXPERIENCE

Experience in a health care field is a critical component of the pre-medical student's pre-professional program. To develop a working knowledge of the role and responsibilities of a physician, students should volunteer or work part-time in a health facility and/or spend extensive time with physicians discussing their profession and professional training.

Almost all of the students accepted into medical schools have worked or volunteered in a clinical setting. A list of physicians at UT Medical Center who have volunteered to spend a day with a pre-medical student can be found on the Arts and Sciences website. Students will have the opportunity to talk to the physicians, join them in their hospital rounds, or observe them in their practice. In addition, the website contains a list of hospital contacts for volunteer opportunities. ETSU has a program entitled Medical Horizons that provides those considering a career in medicine with hands on exposure and firsthand experience in the health professions. See <http://www.etsu.edu/com/sa/admissions/medicalhorizons/default.aspx> for more information.

SEMINAR FOR PRE-HEALTH STUDENTS

During each fall, Arts and Sciences Advising Services offers a one credit hour course entitled "*Introduction to Health Care Delivery*." This one credit hour seminar course is taught in the Wood Auditorium of UT Hospital. The course provides weekly seminars on topics such as managed care, family practice, ethical issues in medicine, malpractice, allied health programs, and many others. The course is listed in the timetable under Interdisciplinary Programs 100. The course is open to any interested student.

TENNESSEE INSTITUTES FOR PRE-PROFESSIONALS

Tennessee Institutes for Pre-Professionals (TIP) is designed to assist Tennessee resident college students from under-represented groups in their pursuit of a professional health career in medicine, dentistry, pharmacy or veterinary medicine. The program actively seeks applications from veterans and from individuals who are historically underrepresented in science and in the health care professions: underrepresented minority students, non-traditional students, students with

disabilities, and students who represent the first in their families to pursue higher education. The program provides a variety of experiences to students including academic enrichment in the sciences, clinical exposure, and test preparation. Eligibility requirements include: member of an underrepresented group, current enrollment in college, clear demonstration of an interest in pursuing a professional health degree, and a 3.0 cumulative GPA with a 2.7 GPA in required science courses. The application deadline is February 28. For more information contact: Health Career Programs, The University of Tennessee Health Science Center, 8 South Dunlap, Room BB9, Memphis, TN 38163, 1-800-998-8654, www.uthsc.edu/hcp.

RURAL PRIMARY CARE TRACK

The Rural Primary Care track is a unique and exciting experience available for a maximum of 15 medical students interested in rural health care. Students have the opportunity to work with patients, their families, and rural communities on an earlier and more consistent basis than students in the traditional medical school curriculum. Students participate in community-based projects and research. For additional information contact: ETSU James H. Quillen College of Medicine, Office of Rural and Community Health, P.O. Box 70412, Johnson City, TN 37614 or call (423) 439-7809.

MEDICAL COLLEGE ADMISSION TEST (MCAT)

The MCAT is a standardized examination designed to help admissions committees predict which of their applicants will perform adequately in the medical school curriculum. The exam assesses mastery of basic biology, chemistry, and physics concepts as well as facility with scientific problem solving and critical thinking. The MCAT is designed to encourage students interested in medicine to pursue broad undergraduate study in the natural and social sciences and the humanities. The MCAT contains four sections: Biological and Biochemical Foundations of Living Systems; Chemical and Physical Foundations of Biological Systems; Psychological, Social, and Biological Foundations of Behavior; and Critical Analysis and Reasoning Skills. Total scores are centered at 500, with scores ranging from 472 to 528. Each section is scored on a range of 118 to 132, with a midpoint of 125.

Nearly all U.S. medical schools require applicants to attempt the MCAT before applying for admission. The MCAT is a computer-based test (CBT). The American Association of Medical Colleges (AAMC) offers the MCAT approximately 20 times a year. Students must make their own arrangements for taking the test.

For ETSU, acceptable scores may not be more than two years old. Applicants are advised to prepare adequately and thoroughly and to complete appropriate course work prior to taking the examination. The cost of the test is \$305.

To register for the MCAT, students should go to the Association of American Medical Colleges (AAMC) website at www.aamc.org. In addition to MCAT registration, this website also contains a list of publications available to order as resources for MCAT preparation.

AMCAS AND THE QUILLEN COLLEGE OF MEDICINE

The American Medical College Application Services (AMCAS) is a nonprofit centralized application processing service for applicants to U.S. medical schools. All applications for admission to the Quillen College of Medicine are processed

through AMCAS.

AMCAS does not render any admission decisions and does not advise applicants where to submit applications or provide any other admission advice. Each participating school is completely autonomous in reaching its decisions. AMCAS provides only the application processing service. Students apply to AMCAS electronically by going to the Association of American Medical Colleges (AAMC) web site: www.aamc.org. Students may submit their applications no earlier than the first week of June and no later than the deadlines set by the medical schools. AMCAS will forward the application to the medical schools the student has designated on the application. Those colleges of medicine wishing to consider the applicant further will request additional information, including the pre-professional evaluation, if not already received.

Arts and Sciences Advising Services will forward your pre-professional evaluation to AMCAS any time after the service opens in the application year. Your written request may be made by faxing or coming to Arts and Sciences Advising Services, 313 Ayres Hall. Requests made by phone cannot be honored. You must have your AAMC ID and AAMC Letter ID to make your request.

The Quillen College of Medicine participates in the AMCAS Early Decision Program. Under this plan, applications are submitted through AMCAS to be received no later than August 1. Under this plan the student applies to only one institution. In return, the College of Medicine agrees to notify all applicants utilizing this plan of the Admissions Committee decision no later than October 1.

Applicants are notified when their applications have been received. At a later date, applicants who have passed an initial screening will be requested to supply supplementary application materials, which include their scores on the CASPer™ (Computer-based Assessment for Sampling Personal Characteristics), a situational judgment test designed to evaluate core personal characteristics considered important for student success in medical school and ultimately, as a practicing physician. Some of these include professionalism, ethical grounding, empathy, compassion, and cultural sensitivity. In addition, an application fee of \$50 will be requested at this time. A waiver of this application fee is available to applicants who have received an AMCAS fee waiver. Applicants who are no longer being considered for a position in the entering class will be notified immediately by mail.

NON-RESIDENT APPLICATIONS

Non-residents of the state of Tennessee should follow the same application procedure as described herein for residents. Non-residents should take note that qualified resident applicants are given first priority. Applicants other than Tennessee residents are discouraged except for those with very high credentials and a strong desire to practice primary care medicine. Residency status (for admissions and fee payment purposes) is determined according to regulations established by the Tennessee Board of Regents. A copy of the guidelines for determining residency will be made available on request from the Office of Student Affairs, Quillen College of Medicine.

VETERAN PREFERENCE

Pursuant to the provisions of Public Law 92-541 as amended, priority for admission will be given to otherwise qualified veterans who, during their military service, acquired medical

military occupation specialties, and said veterans who served during the Vietnam era and who are entitled to disability compensation under laws administered by the Veterans Administration. Veterans whose discharge or release was for a disability incurred or aggravated in the line of duty will be given highest priority.

DEFERRED MATRICULATION PROGRAM

Under this program, a student who has been accepted for admission may petition the Admissions Committee to delay entrance by one year. Students requesting deferred enrollment must write a letter to the Admissions Committee clearly stating the reasons for the request. Requests will be accepted up to 30 days before classes begin. No deferrals will be granted after this date. Deferred matriculants will be required to file a no-cost deferred/delayed matriculation application through AMCAS by August 1 the following year.

QUILLEN COLLEGE OF MEDICINE STATISTICS

<u>2015 Applicants</u>	<u>All Applicants</u>	<u>Accepted Applicants</u>
Number of applications	2187	132
Number of UTK students	181	25
Number of applicants interviewed	287	
Mean GPA (overall)	3.61	
(science)	3.57	
Mean MCAT		V PS BS 9.4 9.3 10

+Class size at James Quillen is 72.

ADDITIONAL INFORMATION IS AVAILABLE FROM:

Doug Taylor, Assistant Dean and Director of Admissions
East Tennessee State University Quillen College of Medicine
(423) 439-2033; sacom@etsu.edu (e-mail); www.etsu.edu/com

Arts and Sciences Advising Services, 313 Ayres Hall
(865) 974-4481; artsci.utk.edu/advising

ASSOCIATION OF AMERICAN MEDICAL COLLEGES
www.aamc.org

AMERICAN ASSOCIATION OF COLLEGES OF OSTEOPATHIC
MEDICINE www.aacom.org

NATIONAL RURAL HEALTH ASSOCIATION
www.ruralhealthweb.org

MEDICAL SCHOOL INTERVIEW FEEDBACK
www.studentdoctor.net

The information in this bulletin is subject to revision. Students are strongly encouraged to consult with a health professions advisor on a regular basis.

ADMISSION TO THE QUILLEN COLLEGE OF MEDICINE IS AT THE DISCRETION OF THAT COLLEGE; ADMISSION TO THE UNIVERSITY OF TENNESSEE, KNOXVILLE, AND COMPLETION OF THE PRE-MEDICINE PROGRAM IN THE COLLEGE OF ARTS AND SCIENCES DOES NOT ASSURE ADMISSION TO THE QUILLEN COLLEGE OF MEDICINE.

THE UNIVERSITY OF TENNESSEE, KNOXVILLE
EEO/TITLE IX/SECTION 504 STATEMENT

The University of Tennessee is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services.