

## Allopathic Medicine Requirements

- Graduates of allopathic medical schools earn an MD and are medical doctors.
- Tennessee has two public medical schools: East Tennessee State University’s James H. Quillen College of Medicine in Johnson City and The University of Tennessee College of Medicine, located on the University of Tennessee Health Science Center in Memphis.
- Tennessee also has two private medical schools: Vanderbilt University School of Medicine and Meharry Medical College School of Medicine, both in Nashville.
- There is no particular major required for admission to allopathic medical school although a strong background in science is highly recommended. It is the applicant’s responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Completion of a baccalaureate degree and the MCAT (Medical College Admission Test) is required for admission.
- Students are strongly encouraged to meet with the Pre-Professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	Minimum semester hours required by Colleges of Allopathic Medicine
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
English Composition	ENGL 1010 ENGL 1020	6
Biochemistry	CHEM 4511	Strongly Recommended for MCAT
General Psychology	PSYC 1030	Strongly Recommended for MCAT
Introduction to Sociology	SOCI 1010	Strongly Recommended for MCAT
Upper-Division Biology Courses	See Advisor for Options	Strongly Recommended

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General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
English Composition	ENGL 1010 ENGL 1020	6
Biochemistry	CHEM 4511	Strongly Recommended for MCAT
General Psychology	PSYC 1030	Strongly Recommended for MCAT
Introduction to Sociology	SOCI 1010	Strongly Recommended for MCAT
Upper-Division Biology Courses	See Advisor for Options	Strongly Recommended

## Cytotechnology Requirements

### University of Tennessee Health Science Center

- Cytopathologists and histotechnologists are highly skilled laboratory professionals who prepare and process tissue and cellular material for evaluation, as well as examine body tissue cells microscopically in order to identify abnormalities.
- The University of Tennessee Health Science Center offers a 3+2 program that leads to a Master in Cytopathology Practice. Although the program at UTHSC admits applicants who have completed a minimum of 85 semester hours, students are strongly encouraged to complete a baccalaureate degree with a major in biology first.
- Students with a GPA less than a 3.0 will be required to take the GRE before being considered for admissions.
- It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Math	MATH 1710 or higher	3
English Composition	ENGL 1010 and ENGL 1020	6
English Literature or Communication	ENGL 2201, 2202 or COMM 2381	3
Social Science Electives	Recommended courses include History, Sociology, Psychology, Anthropology, and Philosophy	12
Upper-Division Biology	See options below for recommendations; any UD BIOL will suffice	15 minimum
Microbiology	BIOL 3500/3505	Recommended
Immunology	BIOL 4445	Recommended
Histology	BIOL 4380	Recommended
Cell Biology	BIOL 3130	Recommended
Genetics	BIOL 3072/3073	Recommended
Comparative Anatomy	BIOL 3620	Recommended
Vertebrate Physiology	BIOL 3730	Recommended
Electives	See Advisor for options	30 (85 hours needed total)

## Dental Hygiene Requirements

### University of Tennessee Health Science Center

- The Dental Hygiene program offered by The University of Tennessee Health Science Center is a baccalaureate program. Students completing prerequisite courses at The University of Memphis may enter the U of M as undecided or select one of our undergraduate majors.
- It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
Anatomy & Physiology	BIOL 2010/2011 BIOL 2020/2021	8
General Biology	BIOL 1110/1111*	4
Microbiology	BIOL 1230/1231	4
General Chemistry	CHEM 1110/1111 CHEM 1120/1121 OR CHEM 1010/1011 CHEM 1020/1021	8
English Composition	ENGL 1010 ENGL 1020	6
English Literature	ENGL 2201 or ENGL 2202	3
Communication	COMM 2381	3
Nutrition	NUTR 2202	3
College Algebra	Math 1710 or higher	3
Medical Terminology	CLAS 3021	3
Sociology	Any course	3
Psychology	Any course	3
Electives	See Advisor for options	9 hours needed to reach 60 total semester hours

\*Students must complete either CHEM 1110/1111 **OR** CHEM 1010/1011 & CHEM 1020/1021 prior to enrolling in BIOL 1110/1111.

## Dentistry Requirements

### University of Tennessee Health Science Center

- The University of Tennessee College of Dentistry admits one class per year beginning in August. The program is four years in length and leads to the Doctor of Dental Surgery (D.D.S.) degree.
- There is no particular major required for admission to dental school although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- All prerequisites listed below for the University of Tennessee College of Dentistry must be taken in a traditional classroom setting. Online coursework will not be accepted.
- Completion of a baccalaureate degree and the DAT (Dental Admissions Test) is required for admission
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
Biochemistry	CHEM 4511	3
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
Select one: Microbiology Comparative Anatomy Histology	BIOL 3500/3505 BIOL 3620 BIOL 4380	4
English Composition	ENGL 1010 ENGL 1020	6
Upper Division Biology	See Advisor for Options	Recommended

## Health Informatics and Information Management Requirements

### University of Tennessee Health Science Center

- “Health Informatics and Information Management professionals work in a variety of different settings and job titles. Having skilled HIM professionals on staff ensures an organization has the right information on hand when and where it is needed while maintaining the highest standards of data integrity, confidentiality, and security. They often serve in bridge roles, connecting clinical, operational, and administrative functions.” (AHIMA)
- The University of Tennessee Health Science Center’s program leads to a Master in Health Informatics and Information Management. Although this program admits students who have completed a minimum of 92 credit hours, we encourage students to complete a baccalaureate degree prior to entry.
- It is the applicant’s responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
Anatomy and Physiology	BIOL 2010/2011 BIOL 2020/2021	8
Medical Terminology	CLAS 3021	1-3 (an online course is acceptable)
Statistics	MATH 1530, Math 4611, SCMS 2710, SOCI 3311, EDPR 4541	3
English Composition	ENGL 1010 ENGL 1020	6
English Literature	ENGL 2201 or 2202	3
Oral Communication	COMM 2381	3
Principles of Management	MGMT 3110	3
Personnel Administration	MGMT 3215*	3
Management Information Systems	MIS 2749	3
Systems Analysis and Design	MIS 3770*	3
Database Management	MIS 3775*	3
Social Science Electives	See Advisor for options	6
Electives	See Advisor for options **	Need to earn a minimum of 92 total hours

\*Contact Pre-Professional Advisor for information on obtaining permit.

\*\* Suggested courses included: ACCT 2010, ACCT 2020, ACCT 3011, MIS 2770, MIS 4800, MGMT 3510, MGMT 4251, MGMT 4260, and MGMT 4420.

## Medical Laboratory Science Requirements

### University of Tennessee Health Science Center

- This program prepares laboratory scientists who use a variety of sophisticated instruments to perform and evaluate various laboratory procedures, including tests on blood and body fluids to obtain data on which a diagnosis of health or disease is made and appropriate therapy initiated.
- The Medical Laboratory Science program offered by The University of Tennessee Health Science Center is designed as the third and fourth years of a baccalaureate degree program, although applicants who have completed their baccalaureate degree previously are encouraged to apply.
- It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
Anatomy & Physiology	BIOL 2010/2011	4
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
Microbiology	BIOL 3500/3505	4
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
Math	Math 1710 or Math 1530 or Math 4611	3
English Composition	ENGL 1010 ENGL 1020	6
English Literature	ENGL 2201 or 2202	3
General Psychology	PSYC 1030	3
Humanities	General Education	3
Social Sciences	General Education	3
History	General Education	3
* Electives	See Advisor for options	Need 61 hours total

## Occupational Therapy Requirements

### University of Tennessee Health Science Center

- Occupational Therapists utilize everyday activities (occupations) to help people of all ages develop skills and strategies to participate in the things they want and need to do in their everyday lives.
- There is no particular major required for occupational school although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Although the OT program offered by The University of Tennessee Health Science Center does not require completion of a baccalaureate degree, all other programs in TN do. The GRE (Graduate Record Exam) is required for admission to all programs.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
Anatomy & Physiology	BIOL 2010/2011 BIOL 2020/2021	8
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111	4
Kinesiology	ESMS 3405* or ESMS 3415*	3
Statistics	EDPR 4541, SCMS 2710, MATH 1530, SOCI 3311, MATH 4611	3
General Psychology	PSYC 1030	3
Human Growth and Development	EDPR 2111	3
Abnormal Psychology	PSYC 3102	3
General Sociology	SOCI 1010	3
Scientific Terminology	CLAS 3021 or HMSE 2000	1-3 (an online course is acceptable)
English Composition	ENGL 1010 ENGL 1020	6
Communication	COMM 2381	3
Anthropology	ANTH 1200	3
Humanities	See Advisor for options	9
Electives	See Advisor for options	Need to earn a minimum of 90 total hours

\*Non-ESMS majors should contact Ms. Kathy Walker ([kwalker1@memphis.edu](mailto:kwalker1@memphis.edu)) for a permit.



# Optometry Requirements

## Southern College of Optometry

- “Doctors of optometry are independent primary health care providers who specialize in the examination, diagnosis, treatment and management of diseases and disorders of the visual system, the eye, and associated structures as well as the diagnosis of related systemic conditions.” (definition adopted by the American Optometric Association)
- Completion of a bachelor’s degree is strongly encouraged and the Optometry Admission Test (OAT) is required for admission.
- There is no particular major required to enter optometry training although a strong background in science is highly recommended. It is the applicant’s responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by Southern College of Optometry
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
Microbiology	BIOL 3500/3505	4
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301	4
Biochemistry	CHEM 4511*	3
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
Calculus	Math 1830 or Math 1910	3
Statistics	Math 1530, Math 4611, SOCI 3311, SCMS 2710, EDPR 4541	3
English Composition	ENGL 1010 ENGL 1020	6
General Psychology	PSYC 1030	3
Social Science Electives	Courses from Sociology, Psychology, Political Science, History, Economics, Anthropology, Geography, Religion, or Philosophy.	6
Cell Biology	BIOL 3130	Recommended
Comparative Anatomy	BIOL 3620	Recommended
Vertebrate Physiology	BIOL 3730	Recommended

\*CHEM 3511/3501 (Foundations of Bio-Organic Chemistry) is required prior to taking Biochemistry.

## Osteopathic Medicine Requirements

- Osteopathic medicine provides all of the benefits of modern medicine including prescription drugs, surgery, and the use of technology to diagnose disease and evaluate injury. It also offers the added benefit of hands-on diagnosis and treatment through a system of therapy known as osteopathic manipulative medicine. Osteopathic medicine emphasizes helping each person achieve a high level of wellness by focusing on health promotion and disease prevention.
- Doctors of osteopathic medicine can choose any specialty, prescribe drugs, perform surgeries, and practice medicine anywhere in the United States.
- There is no particular major required for admission to allopathic medical school although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Completion of a baccalaureate degree and the MCAT (Medical College Admission Test) is required for admission.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	Minimum semester hours required by Colleges of Osteopathic Medicine
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
English Composition	ENGL 1010 ENGL 1020	6
Biochemistry	CHEM 4511	Strongly Recommended for MCAT
General Psychology	PSYC 1030	Strongly Recommended for MCAT
Introduction to Sociology	SOCI 1010	Strongly Recommended for MCAT
Upper-Division Biology Courses	See Advisor for Options	Strongly Recommended

## Pharmacy Requirements

### The University of Tennessee Health Science Center College of Pharmacy

- Pharmacy school is four years in length and upon graduation students earn a Pharm.D.
- There is no particular major required for admission to pharmacy school although a strong background in science is highly recommended. Students majoring in either biology or chemistry are able to complete the prerequisites coursework in a timely manner whereas a non-science major may take significantly longer to do so.
- It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Completion of minimum of 62 credit hours and the PCAT (Pharmacy College Admission Test) is required for admission.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	Minimum semester hours required by University of Tennessee College of Pharmacy
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
Microbiology	BIOL 3500/3505	See Advisor if you have already completed a Microbiology course
Anatomy and Physiology	BIOL 2010/2011 and BIOL 2020/2021 OR BIOL 3620 and BIOL 3730	8
Calculus	MATH 1830 or MATH 1910	3
Statistics	MATH 4611, SCMS 2710, EDPR 4541, SOCI 3311	3
English Composition	ENGL 1010 ENGL 1020	6
Oral Communication	COMM 2381	3
Humanities Electives	See Advisor for Options	6
Social Science Electives	See Advisor for Options	6

## Physical Therapy Requirements

### University of Tennessee Health Science Center

- Physical Therapists work with patients of every age, assisting with the ability to move, reduce pain, restore function, and prevent disability.
- The University of Tennessee Health Science Center offers a three-year professional program. Graduates of this program are awarded the Doctor of Physical Therapy (DPT) degree. No online science courses allowed.
- There is no particular major required for physical therapy although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Completion of a baccalaureate degree and the GRE (Graduate Record Exam) is required for admission to all programs.
- Students are strongly encouraged to meet with the Pre-Professional Advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Health Science Center
Anatomy & Physiology	BIOL 2010/2011 BIOL 2020/2021	8
General Biology	BIOL 1110/1111 BIOL 1120/1121	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
Statistics	EDPR 4541, MATH 1530, SOCI 3311, MATH 4611	3
Math	MATH 1720 or higher	3
Psychology	PSYC 1030 and one additional course	6

\* *Virtual, online, AP and CLEP courses are accepted for Math, Statistics, and Psychology only.*

## Physician Assistant Requirements (TN programs)

- Physician assistants, working under the supervision of a physician, perform many patient-related tasks traditionally done by physicians. PAs practice in all areas of medicine although the majority of PA programs train students for general medicine.
- There is no particular major required for physician assistant school although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Completion of a bachelor's degree and the GRE (Graduate Record Exam) is required for admission.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by Bethel University	# of hours required by CBU	# of hours required by LMU-DeBusk COM	# of hours required by South College	# of hours required by Trevecca Nazarene University	# of hours required by UTHSC
Anatomy & Physiology	BIOL 2010/2011 BIOL 2020/2021	8	8	8	8	8	8
General Biology	BIOL 1110/1111 BIOL 1120/1121	8	8	8	8	-	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8	8	8	8	8	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	-	8	8	<b>R*</b>	-	<b>R*</b>
Microbiology	BIOL 1230/1231 or BIOL 3500/3505 (check with schools)	4	4	4	<b>R*</b>	4	3
Math (College algebra or higher)	MATH 1710, 1720, 1830, 1910	-	3	3	6 (may include stats)	-	3
General Psychology	PSYC 1030	3	3	3	-	3	3 (or Sociology)
Human Growth and Development	EDPR 2111	-	-	-	-	3	-
Scientific Terminology	CLAS 3021	-	One semester	One semester	-	-	One Semester
English Composition	ENGL 1010 ENGL 1020	-	6	6	6	-	-
Humanities/Social Sciences		-	-	-	6	-	-
Genetics	BIOL 3072/3073	4	4	-	<b>R*</b>	-	-
Biochemistry	CHEM 4511	-	-	-	<b>R*</b>	-	<b>R*</b>
Upper Division Psychology		-	<b>R*</b>	<b>R*</b>	-	-	-

\***R**=recommended

## Podiatry Requirements

- Doctors of Podiatric Medicine (DPMs) are responsible for the prevention, diagnosis, and treatment of conditions associated with the ankle and foot.
- There are currently eight Colleges of Podiatric Medicine and more than 200 hospitals and institutions available for postdoctoral training in the field.
- There is no particular major required to enter podiatric training although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- Completion of a bachelor's degree is strongly encouraged and the MCAT is required for admission. Some schools will accept the DAT in place of the MCAT.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	Actual minimum semester hours required by all Colleges of Podiatric Medicine
General Biology	BIOL 1110/1111 BIOL 1120/1121	8-12*
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8
General Physics	PHYS 2010/2011 PHYS 2020/2021	8
English Composition	ENGL 1010 ENGL 1020	6-8*

\*Dr. William M. Scholl College of Podiatric Medicine requires 12 hours of Biology.

\*California School of Podiatric Medicine requires 8 hours of English/Communication Studies.

## Veterinary Medicine Requirements (TN & MS programs)

- Students graduate from veterinary school with a DVM (Doctor of Veterinary Medicine).
- There is no particular major required for veterinary medicine although a strong background in science is highly recommended. It is the applicant's responsibility to research each school and review recommended coursework in addition to verifying the prerequisites listed below. Application dates and deadlines may vary.
- The GRE (Graduate Record Exam) is required for admission.
- Students are strongly encouraged to meet with the pre-professional advisor early in their academic career to discuss plans of study, student involvement, the application process to professional school, etc.

Courses	U of M Course	# of hours required by University of Tennessee Knoxville	# of hours required by Mississippi State University	# of hours required by Auburn University
General Physics	PHYS 2010/2011 PHYS 2020/2021	8	6	4
General Biology	BIOL 1110/1111 BIOL 1120/1121	8	8	8
General Chemistry	CHEM 1110/1111 CHEM 1120/1121	8	8	8
Organic Chemistry	CHEM 3310/3301 CHEM 3511/3501	8	8	6
Microbiology	BIOL 3500/3505	Recommended	4	Recommended
Genetics	BIOL 3072/3073	3	-	-
Biochemistry	CHEM 4511	One semester; lab not required	3	3
Cell Biology	BIOL 3130	3	-	-
Math	College Algebra or higher	-	6	3
English Composition	ENGL 1010 ENGL 1020	6	6	6
Humanities/Social Sciences	See Advisor for options	18	15	12
Oral Communication	COMM 2381	-	3	-
Upper Division Science Electives	See Advisor for options	Recommended	12	6
History or Behavioral Science	See Advisor for options	-	-	3
Animal Nutrition	Online Course Recommended			3