

East Central College

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Division

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East Central College is accredited by
the Higher Learning Commission and
a participant in the Academic Quality
Improvement Program (AQIP).
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THE CAREER

Merriam-Webster defines medicine as the "art of dealing with the maintenance of health and the prevention, alleviation or cure of disease. Those seeking a medical career have many employment options along those lines as physicians, veterinarians, pharmacists and the like.

These professionals first need a strong science-based education starting at the undergraduate level. ECC's medical science degree successfully prepares students in this way so that when they graduate, they are ready to enter into a baccalaureate program as a junior.

EMPLOYMENT OPPORTUNITIES

The number of medical science positions is increasing at a faster-than-average rate, per the U.S. Bureau of Labor Statistics. Specific career paths (requiring advanced degrees and licensure) include:

- ✓ Chiropractor
- ✓ Dentist
- ✓ Optometrist
- ✓ Orthodontist
- ✓ Pharmacist
- ✓ Physician
- ✓ Podiatrist
- ✓ Surgeon
- ✓ Veterinarian

PROFESSIONAL TRAITS

Those pursuing a career in this field should:

- Care about the public's health and well-being
- Have solid interpersonal, communication and listening skills
- Be trustworthy, ethical and able to keep confidences
- Have the emotional stability to cope with suffering, emergencies or other stresses
- Have strong analytical and problem-solving skills
- Pay close attention to details
- Be able to direct and supervise others

THE PROGRAM

Students at East Central College who express an interest in a medical science career have several course options and electives available. Assuming appropriate placement scores, it is a two-year transfer degree, with flexibility to customize the program to the student's chosen career.

Medical science consists of the 42-credit hour general education core plus the necessary electives in biology, chemistry and physics. The academic program's strong science emphasis readies students to complete a pre-medical, pre-dental, pre-optometry, pre-veterinary or related bachelor's degree at a four-year college or university. In addition, ECC provides various student activities, organizations and practicum experiences related to the discipline.

GENERAL EDUCATION REQUIREMENTS

East Central College requires each transfer student complete a 42 hour general education block. General education at ECC is organized around the institution's common learning objectives and coursework. A student is required to demonstrate skills in each of the following three areas:

- **Communicating:** Improve written and oral communication skills; adapt and apply communication to academic and professional purposes, audiences and contexts; demonstrate the use of technology to analyze and communicate information; and use active listening and reading skills.
- **Creative/Critical Thinking:** Improve the application of relevant knowledge and theory to new ideas, positions or solutions; assess and analyze concepts and data; formulate meaningful questions; and interpret and evaluate evidence and arguments.
- **Ethics and Social Responsibility:** Develop cross cultural awareness and an understanding of global interconnectedness; apply multiple worldviews, analyze ethical choices and consequences; and understand the core values and accountability of citizenship in a democratic society.

ADMISSIONS REQUIREMENTS

Students must have completed:

- ✓ High school diploma or the equivalent (documentation must be sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (some coursework requires minimum placement results)

TRANSFER OPTIONS

Many of the credits, particularly the general education electives earned with this degree, are accepted as transfer credits by four-year colleges and universities. These decisions are made solely by the bachelor degree-granting institution, not ECC.

Students seeking to transfer should communicate often with their faculty advisors and the East Central College transfer advisor. They should also make early contact with the four-year institution of their choice regarding the transferability of East Central College's credits and coursework.

MEDICAL SCIENCE

ASSOCIATE OF ARTS

PROGRAM OF STUDY

This program of study is for a full-time student; part-time study is also available. Please contact an academic advisor for full course options. All academic schedules are subject to change. For the most current schedule, visit www.eastcentral.edu.

YEAR 1

FALL SEMESTER

COURSE	HOURS
FS 1000/ FS 1001 Campus Orientation/ Foundation Seminar	1
EN 1223/ EN 1233 English Comp I or Honors English Comp I	3
Math Requirement**	5
SC 1000 Laboratory Safety for Students	0
CH 1305 General Chemistry I Lecture/Lab	5
Total Hours	14

SPRING SEMESTER

COURSE	HOURS
CH 1405 General Chemistry II Lecture/Lab	5
EN 1333/ EN 1343 English Comp II or Honors English Comp II	3
BI 1325 Principles of Biology I Lecture/Lab	5
PR 2103 Ethics	3
Total Hours	16

SUMMER SEMESTER

COURSE	HOURS
CT 1103 Public Speaking	3
Total Hours	3

YEAR 2

FALL SEMESTER

COURSE	HOURS
HS 1113 Medical Terminology	3
EN 1403 Technical Writing	3
Any course in Ethics or Social Responsibility	3
Any course within Global and Cross Cultural	3
Total Hours	12

SPRING SEMESTER

COURSE	HOURS
HI 1000/ PS 1000 Constitutional Study Module	0
History or Political Science Requirement	3
BI 1415 Principles of Biology II Lecture/Lab	5
Program Elective with Lab*	5
Any course within Ethics and Valuing	3
Total Hours	16

*PROGRAM ELECTIVES

COURSE	HOURS
BI 2045 Cell Biology Lecture/Lab	5
BI 2005 Genetics Lecture/Lab	5
CH 2305 Organic Chemistry I Lecture/Lab	5
CH2415 Organic Chemistry II Lecture/Lab	5
PH1703/ PH 1712 College Physics I Lecture/Lab	5
PH1803/ PH1812 College Physics II Lecture/Lab	5

**MATH ELECTIVES

COURSE	HOURS
MT 1505 Pre-Calculus Math	5
MT 1605 Analytic Geometry & Calculus I	5