ASSOCIATE IN SCIENCE

The Mathematics and Physics Department at LCC strives to work with students and help them succeed in their degree, career and transfer plans by providing quality courses in mathematics and physics. The full time faculty of the department all have graduate degrees in their fields. The college offers smaller class sizes and the opportunity for more attention to the student as an individual.

Concentration Requirements 31

- COMP 138 Visual Basic Programming 3
- MATH 130 Calculus I 5
- MATH 131 Calculus II 5
- MATH 201 Calculus III 5
- MATH 202 Differential Equations 3
- PHYS 203 Engineering Physics I 5
- PHYS 208 Engineering Physics II 5

Concentration Electives (choose 5 or 6 hours) 5-6

- CHEM 124 College Chemistry I 5
- COMP 135 C++ Programming 3
- INDU 131 Engineering Graphics 3
- INDU 210 Computer Aided Drafting & Design 3
- MATH 120 Elementary Statistics 3
- MATH 121 Matrix Algebra 3
- MATH 125 Trigonometry 3

General Education Requirements 27

- BIOL 120 Biology 5
- COMM 101 Fundamentals of Speech 3
- ENGL 101 English Composition I 3
- ENGL 102 English Composition II 3
- PED 116 Lifetime Fitness 1
- Humanities Electives 6
- Social and Behavioral Science Electives 6

Recommended Course Sequence (Math/Engineering/Physics):

SEM 1: MATH 120, MATH 130
SEM 2: MATH 121, MATH 131, COMP 138
SEM 3: MATH 201, PHYS 203
SEM 4: MATH 202, PHYS 208

Recommended Course Sequence (Engineering Technology):

SEM 1: MATH 125, MATH 120
SEM 2: MATH 121, COMP 138
SEM 3: MATH 130, PHYS 201, or PHYS 203
SEM 4: MATH 131, PHYS 205, or PHYS 208

Credits Required: 63-64

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Accreditation

The Mathematics and Physics Department are active participants in the Kansas Core Outcomes Group, which meets annually and seeks to ensure transfer of general education mathematics courses between the various colleges, technical schools, and universities in the Regents’ System in Kansas.

Requirements

First time enrollees in math courses at LCC can be placed into math courses via either their ACT Math Score, by transferring courses from sister institutions, or by taking the ACCUPLACER Placement Test. Information concerning ACT placement criteria and ACCUPLACER placement score requirements can be found on page 29 of this catalog.

Students seeking the two year Associate’s Degree in Math/Physics/Engineering should set a goal of starting in Calculus I in the fall semester of their freshman year if entering the program as a traditional student. Students seeking to transfer into an Engineering Technology program should anticipate starting at least at a College Algebra level in their fall semester, freshman year.

After Graduation

Career Information in Math/Physics/Engineering:

http://www.bls.gov/ooh/architecture-and-engineering/home.htm
http://www.bls.gov/ooh/math/home.htm

Courses designated as Physical Science, Natural Science, Humanities, Social Behavioral and General Education electives can be found on page 82.

Placement Tests or pre-requisites are required for English Composition I, Math courses and most General Education Electives. See page 31 for complete Placement information.

All first-time, full-time students with fewer than 15 credit hours after high school graduation are required to enroll in the College Success Skills course during their first semester.

Some courses are not offered each semester. Always make an appointment with your major advisor to enroll each semester.

Providing Quality Learning Opportunities