

# MATHEMATICS/ENGINEERING/PHYSICS

## 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.

**Credits Required:** 63-64

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### Concentration Requirements **31**

<input type="checkbox"/>	COMP	138	Visual Basic Programming	3
<input type="checkbox"/>	MATH	130	Calculus I	5
<input type="checkbox"/>	MATH	131	Calculus II	5
<input type="checkbox"/>	MATH	201	Calculus III	5
<input type="checkbox"/>	MATH	202	Differential Equations	3
<input type="checkbox"/>	PHYS	203	Engineering Physics I	5
<input type="checkbox"/>	PHYS	208	Engineering Physics II	5

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

<input type="checkbox"/>	CHEM	124	College Chemistry I	5
<input type="checkbox"/>	COMP	135	C++ Programming	3
<input type="checkbox"/>	INDU	131	Engineering Graphics	3
<input type="checkbox"/>	INDU	210	Computer Aided Drafting & Design	3
<input type="checkbox"/>	MATH	120	Elementary Statistics	3
<input type="checkbox"/>	MATH	121	Matrix Algebra	3
<input type="checkbox"/>	MATH	125	Trigonometry	3

### General Education Requirements **27**

<input type="checkbox"/>	BIOL	120	Biology	5
<input type="checkbox"/>	COMM	101	Fundamentals of Speech	3
<input type="checkbox"/>	ENGL	101	English Composition I	3
<input type="checkbox"/>	ENGL	102	English Composition II	3
<input type="checkbox"/>	PED	116	Lifetime Fitness	1
<input type="checkbox"/>			Humanities Electives	6
<input type="checkbox"/>			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

### 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/business-and-financial/home.htm>

<http://www.bls.gov/ooh/computer-and-information-technology/home.htm>

<http://www.bls.gov/ooh/education-training-and-library/home.htm>

<http://www.bls.gov/ooh/life-physical-and-social-science/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 offer each semester. Always make an appointment with your major advisor to enroll each semester.