

PHYSICS/ENGINEERING

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.

Recommended Course Sequence (Math/Engineering/Physics):

SEM 1: MATH 125, CHEM 124

SEM 2: MATH 130, CHEM 126**

SEM 3: MATH 131, PHYS 203

SEM 4: MATH 201, PHYS 208

Credits Required: 60-63

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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 NEXT GENERATION ACCUPLACER Placement Test. Information concerning placement score requirements can be found on page 27 of this catalog.

Students seeking the two year Associate 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>

Concentration Requirements 15

<input type="checkbox"/>	CHEM 124	College Chemistry I	5
<input type="checkbox"/>	MATH 131	Calculus II	5
<input type="checkbox"/>	PHYS 205	College Physics II <i>or</i>	
<input type="checkbox"/>	PHYS 208	Engineering Physics II	5

Pathway Requirements 35-37

Written Communication

<input type="checkbox"/>	ENGL 101	English Composition I	3
<input type="checkbox"/>	ENGL 102	English Composition II	3

Verbal Communication

<input type="checkbox"/>	COMM 101	Public Speaking	3
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Quantitative/Analytic Methods

<input type="checkbox"/>	MATH 130	Calculus I	5
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Human Experience

<input type="checkbox"/>	ART 103	Drawing I	3
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Human Systems/No companion Elements

Choose one class

<input type="checkbox"/>			3
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Human Systems/Diverse Perspectives

Choose one class

<input type="checkbox"/>			3
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Human Systems/Social Responsibility

Choose one class

<input type="checkbox"/>			3
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Natural World/Scientific Inquiry

<input type="checkbox"/>	PHYS 201	College Physics I <i>or</i>	
<input type="checkbox"/>	PHYS 203	Engineering Physics I	5

Wellness Strategies/No Companion Elements

Choose one class

<input type="checkbox"/>			1-3
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Wellness Strategies/Scientific Inquiry

<input type="checkbox"/>	PSYC 101	General Psychology	3
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General Education Electives 10-11

<input type="checkbox"/>	CHEM 126	College Chemistry II*	5
<input type="checkbox"/>	MATH 202	Differential Equations	3
<input type="checkbox"/>	MATH 120	Elementary Statistics	3
<input type="checkbox"/>	MATH 125	Trigonometry	3
<input type="checkbox"/>	MATH 201	Calculus III**	5

* Required for Physics Majors and/or if the B.S. Engineering program at transfer institution requires it.

** Required for Engineering Majors

Courses designated as Physical Science, Natural Science, Humanities, Social Behavioral and General Education electives can be found on page 92.

Placement Tests or pre-requisites are required for English Composition I, and Math courses. See page 26 for complete Placement information.

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