

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.

Credits Required: 60-63

Major Advisors: Ralph Gouvion
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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

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
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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

Quantitative/Analytic Methods		
<input type="checkbox"/>	MATH 130 Calculus I	5

Human Experience		
<input type="checkbox"/>	ART 103 Drawing I	3

Human Systems/No companion Elements		
Choose one class		
<input type="checkbox"/>	_____	3

Human Systems/Diverse Perspectives		
Choose one class		
<input type="checkbox"/>	_____	3

Human Systems/Social Responsibility		
Choose one class		
<input type="checkbox"/>	_____	3

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

Wellness Strategies/Scientific Inquiry		
<input type="checkbox"/>	PSYC 101 General Psychology	3

General Electives		10-11
<input type="checkbox"/>	CHEM 126 College Chemistry II*	5
<input type="checkbox"/>	MATH 120 Elementary Statistics	3
<input type="checkbox"/>	MATH 125 Trigonometry	3
<input type="checkbox"/>	MATH 201 Calculus III***	5
<input type="checkbox"/>	MATH 202 Differential Equations	3

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

** Required for Engineering Majors

General Education Electives can be found on page 86.

Pathway Requirements can be found on page 90