

# ENGINEERING TECHNOLOGY

## 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 (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:** 60-63

**Major Advisors:**

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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>

<u>Concentration Requirements</u>		20
<input type="checkbox"/>	MATH 130 Calculus I	5
<input type="checkbox"/>	MATH 131 Calculus II	5
<input type="checkbox"/>	PHYS 201 College Physics I <i>or</i>	
<input type="checkbox"/>	PHYS 203 Engineering Physics I	5
<input type="checkbox"/>	PHYS 205 College Physics II <i>or</i>	
<input type="checkbox"/>	PHYS 208 Engineering Physics II	5

<u>Pathway Requirements</u>		33-35
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<b>Written Communication</b>		
<input type="checkbox"/>	ENGL 101 English Composition I	3
<input type="checkbox"/>	ENGL 102 English Composition II	3
<b>Verbal Communication</b>		
<input type="checkbox"/>	COMM 101 Public Speaking	3
<b>Quantitative/Analytic Methods</b>		
<input type="checkbox"/>	MATH 115 College Algebra <i>or</i>	
<input type="checkbox"/>	MATH 120 Elementary Statistics	3
<b>Human Experience</b>		
<input type="checkbox"/>	ART 103 Drawing I	3
<b>Human Systems/No companion Elements</b>		
Choose one class		
<input type="checkbox"/>	_____	3
<b>Human Systems/Diverse Perspectives</b>		
Choose one class		
<input type="checkbox"/>	_____	3
<b>Human Systems/Social Responsibility</b>		
Choose one class		
<input type="checkbox"/>	_____	3
<b>Natural World/Scientific Inquiry</b>		
<input type="checkbox"/>	CHEM 124 College Chemistry I	5
<b>Wellness Strategies/No Companion Elements</b>		
Choose one class		
<input type="checkbox"/>	_____	1-3
<b>Wellness Strategies/Scientific Inquiry</b>		
<input type="checkbox"/>	PSYC 101 General Psychology	3
<u>General Education Electives</u>		7-8
<input type="checkbox"/>	CHEM 126 College Chemistry II	5
<input type="checkbox"/>	LEAR 102 Research Skills	1
<input type="checkbox"/>	MATH 120 Elementary Statistics	3
<input type="checkbox"/>	MATH 125 Trigonometry	3

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.