

 	ASSOCIATE OF SCIENCE PRE-ENGINEERING – ELECTRICAL ENGINEERING <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.</i>	2023-24 Catalog Effective Summer 2023 <div style="font-size: 2em; font-weight: bold;">4102</div>
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Business, Engineering, and Information Technologies Division

Engineering Technology Department

ARTICULATING TO A BS IN ELECTRICAL ENGINEERING WITH THE UNIVERSITY OF AKRON

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
ENGLISH COMPOSITION & ORAL COMMUNICATION				
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES				
BUS221	Microeconomics^	3	IDS102 or Proficiency	
SOC225	Diversity in American Society^	3	IDS102 or Proficiency	
ARTS & HUMANITIES				
HIS122	U.S. History II from 1877	3		
PHL122	Ethics	3		
NATURAL SCIENCES				
CHM141	General Chemistry I (lab)^▲	5	(CHM101 or Proficiency) or (MTH024 or MTH025 or Proficiency)	
PHY221	General Physics I w/Calculus (lab)	5	MTH223 and MTH224	
MATHEMATICS, STATISTICS AND LOGIC				
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	MTH025 or Proficiency	
MTH223	Analytical Geometry and Calculus I^*	4	MTH135 or (MTH125 and MTH130) or Proficiency	
MTH224	Analytical Geometry and Calculus II	4	MTH223	
MTH227	Ordinary Differential Equations	3	MTH224	
CONCENTRATION CORE				
MTH225	Analytical Geometry and Calculus III	4	MTH224	
EET120	DC Circuit Analysis	4	Pre-Co-MTH125 or Pre-Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre-Co-MTH130 or Pre-Co-MTH135) and EET120	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CST121	Modeling and Simulation	3	MTH221 or MTH223	
MET124	Statics and Strength of Materials	4	Pre-Co-PHY121 or Pre-Co-PHY221	
TOTAL CREDIT HOURS		64		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Bridge courses that can be taken at Stark State College, prior to attending the University of Akron, that apply towards the University of Akron BS Degree: COM121, ENG221, PHY222, MTH227 and CSE233. If you plan on taking additional courses at Stark State College beyond this list, we recommend you verify transferability with a University of Akron advisor prior to taking the course. Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit Transferology at <http://www.transferology.com> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer 36 approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer. Contact the University of Akron's Transfer Student Services Center (330-972-7009) during the first semester to discuss junior year Stark State College Associate of Science pre-engineering transition strategies to the University of Akron's Engineering BS programs.

First Semester

SSC101 Student Success Seminar^^
CHM141 General Chemistry I (lab)^▲

ENG124 College Composition^

MTH135 Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.

EET120 DC Circuit Analysis

Credit Hours

1

5

3

5

4

18

Pre- or Co-requisites

Take first semester

(CHM101 or Proficiency) or
(MTH024 or MTH025 or Proficiency)

Co-ENG024 or Co-ENG011 or
Proficiency

MTH025 or Proficiency

Pre-Co-MTH125
or Pre-Co-MTH135

Second Semester

SOC225 Diversity in American Society^

MTH223 Analytical Geometry and Calculus I^*

EET122 AC Circuit Analysis

PHL122 Ethics

3

14

IDS102 or Proficiency
MTH135 or (MTH125 and MTH130) or
Proficiency
(Pre-Co-MTH130 or
Pre-Co-MTH135) and EET120

Summer Semester

MTH224 Analytical Geometry and Calculus II

4

MTH223

Third Semester

PHY221 General Physics I w/Calculus (lab)

MTH225 Analytical Geometry and Calculus III

MET124 Statics and Strength of Materials

5

4

4

13

MTH223 and MTH224
MTH224
Pre-Co-PHY121 or Pre-Co-PHY221

Fourth Semester

CSE122 Programming Logic and Problem Solving^

3

(IDS102 or Proficiency)
and (ITD100 or Proficiency)
MTH224

MTH227 Ordinary Differential Equations

BUS221 Microeconomics^

CST121 Modeling and Simulation

HIS122 U.S. History II from 1877

3

3

3

3

15

IDS102 or Proficiency
MTH221 or MTH223

TOTAL CREDITS

64

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

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