



Engineering/Physics A.S.

Curriculum Code: 1619

Effective: Fall 2019 – Summer 2024

Description

This degree is designed for students who intend to transfer to a four-year college or university to pursue a baccalaureate degree in this subject area. Students completing this curriculum will also satisfy the Michigan Transfer Agreement (MTA) between two-year and four-year institutions in Michigan and qualify for an LCC Transfer Studies Certificate of Achievement (1482).

Additional Information

A student must earn a minimum grade of 2.0 in all courses.

Contact Information

Contact the Science Department in the Arts and Sciences Building, Room 3203, telephone number 517-483-1092, or the Academic Advising Department, Gannon Building – Star Zone, telephone number 517-483-1904.

General Education MTA Courses, Recommended Choices

(For the full list of options, see [Michigan Transfer Agreement](#))

- English Composition – *Select one*
ENGL 121, Composition I, 4 credits / 4 billing hours
ENGL 131, Honors Composition I, 4 credits / 4 billing hours
- English Composition (second course) or Communication – *Select one*
ENGL 122, Composition II, 4 credits / 4 billing hours
ENGL 132, Honors Composition II, 4 credits / 4 billing hours
- Humanities and Fine Arts – *Select two, each from a different discipline*
HIST 211, U.S. History to 1877, 4 credits / 4 billing hours
HIST 212, U.S. History: 1877 to Present, 4 credits / 4 billing hours
- Mathematics
Program of Study Required Courses will meet this requirement
- Natural Sciences – *Select one from a discipline other than PHYS*
CHEM 151, General Chemistry Lecture I, 4 credits / 4 billing hours
- Social Science – *Select two, each from a different discipline*

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
MATH 151	Calculus I	4 / 4
MATH 152	Calculus II	4 / 4
MATH 253	Calculus III	4 / 4
MATH 254	Intro to Differential Equation	4 / 4
PHYS 251	Physics I with Calculus	5 / 7
PHYS 252	Physics II with Calculus	5 / 7

Elective Courses, Recommended Choices – *Select courses to reach the minimum 60 total credits required for this degree. PHYS 260 is highly recommended.* (For the full list of options, see [AA and AS Degree Electives](#))

Course Code	Course Title	Credit / Billing Hours
BIOL 127	Cell Biology	4 / 6
CPSC 131	Numerical Methods and MATLAB	3 / 4
CPSC 230	Algorithms and Computing w/ C++	4 / 4
MATH 260	Linear Algebra	4 / 4
PHYS 260	Statics for Engineers	3 / 3
STAT 215	Intro to Probability and Stats	4 / 4

Total Credit Hours

60-62 credits / 65-68 billing hours

Recommended Course Sequence

Semester I	Semester II
MTA English Composition MTA Humanities and Fine Arts MTA Social Science MATH 151	MTA English Comp (2nd course) or Communication MTA Humanities and Fine Arts MTA Natural Science MATH 152

Semester III	Semester IV
MTA Social Science MATH 253 PHYS 251 Elective	MATH 254 PHYS 252 Elective Elective