

College of Engineering Prerequisite Guide

Michigan Technological University

Admission Requirements

- Completion of the required prerequisite courses prior to the intended term of enrollment at U-M
- Planned or in-progress courses at the time of application are okay as long as they are completed by the intended term of enrollment
- Minimum GPA of 3.0 or higher.
- Minimum of C or higher in all prerequisite courses (C- does not meet the requirements)
- Non-native speakers of English must provide proof of English proficiency.

*Meeting the minimum GPA expectations and completion of prerequisites does not guarantee an offer of admission as each application is reviewed individually and holistically.

Special Notes

Students may only apply as a transfer student to Michigan Engineering up to three times, however, only one application will be allowed for the Computer Science major.

PREREQUISITES

*course equivalencies are based on the [Transfer Equivalency Guide](#) and are subject to change/expire. For questions, contact engin-our@umich.edu

Michigan Courses	Michigan Tech Courses
**MATH 115-Calculus I	MA 1160 AP Calculus AB - 5 AP Calculus BC - 4 or higher IB Mathematics HL - 6 or higher
**MATH 116-Calculus II	MA 2160 AP Calculus BC - 5 IB Mathematics HL - 7
*Calculus III	No directly equivalent course offered
CHEM 130 - General Chemistry I	CH 1112 CH 1150 AP Chemistry - 4 or higher IB Chemistry HL - 4 or higher
CHEM 125 & 126 - General Chemistry Lab I & II	CH 1151 AP Chemistry - 4 or higher IB Chemistry HL - 4 or higher
PHYSICS 140 - General Physics I	PH 1160

	PH 2100 PH 2100H AP Physics C: Mechanics - 5 IB Physics HL - 4 or higher
PHYSICS 141 - General Physics I Lab	PH 1161 AP Physics C: Mechanics - 5 IB Physics HL - 4 or higher
***ENGR 101/EECS 183	CIS 1111 CS 1141 CS 1142
ENGLISH 125	UN 1015 UN 2001 (expired 2022)
Alternate Coursework	
Completion of coursework directly equivalent to courses below will meet the prerequisite for Chemistry + Lab and/or Physics + Lab	
CHEM 210 - Organic Chemistry I	CH 2410
CHEM 211 - Organic Chemistry Lab I	CH 2411
PHYSICS 240 - General Physics II	PH 1200 PH 2200 PH 2200H AP Physics C: Electricity and Magnetism - 5 IB Physics HL - 4 or higher
PHYSICS 241 - General Physics II Lab	PH 1200 PH 1200H AP Physics C: Electricity and Magnetism - 5 IB Physics HL - 4 or higher

*If AP/IB credit was awarded for Calculus I or Calculus I & II, completion of one additional math course is required to fully satisfy the Calculus prerequisite requirement. Suggested additional coursework includes: Calculus III, Differential Equations, Linear Algebra

**The following students should elect up to two additional math courses that directly transfer to Michigan:

1. Students who received AP/IB credit for Calc I or Calc I & II but do not have scores that meet Michigan's requirements.
2. Students who tested out of Calc I or Calc I & II
3. Students whose Calc I or Calc II class transfers as departmental credit or is non-transferable

***Prerequisite met through completion of a directly equivalent course for EECS 183 **OR** ENGR 101; only one is required. Beginning Fall 2024, the College of Engineering will accept departmental credit for ENGR 101 if no other directly transferable coursework is available at the student's current institution. This does not apply to other prerequisite coursework.