



Montcalm Community College

2025/26

Western Michigan University Engineering Curriculum Guide

IMPORTANT NOTES

- The engineering department has useful, easy-to-read, and understandable [transfer guides](#) which include prerequisites, course requirements, and much more.
- Engineering advisors are concerned that transfer students complete the right courses. Please feel free to email one of the [advisors](#) or call (269) 276-3270 to make an appointment.
- Mathematics is the language of engineering and applied sciences, and it serves as the basis for where students begin their academic career at WMU (see table below).
- Bachelor of Science Degree in Engineering and Applied Sciences:
 - All Engineering programs require successful completion of four Calculus courses.
 - Engineering Technology programs require a minimum of Pre-Calculus and Calculus I
 - Computer Science requires Calculus I, Linear Algebra, Discrete Math, and Statistics.

Math courses completed at your previous institution(s) will determine your math placement at WMU.

| If you've completed the equivalent of:* | And received a grade of: | Then you are ready to take: |
|---|------------------------------------|--|
| MATH 1180 (Precalculus) or higher | 'C' or better (2.0 on a 4.0 scale) | Calculus I or higher Student begins Calculus I (or higher) in Pre-Engineering, Pre-Engineering Technology or Computer Science curriculum. |
| MATH 1110 (Algebra II) | 'B' or better (3.0 on a 4.0 scale) | Precalculus Student begins Precalculus in Pre-Engineering, Pre-Engineering Technology or Computer Science curriculum. |
| MATH 1110 (Algebra II) | Below 'B' on first attempt | Algebra II <ul style="list-style-type: none">• Student begins CEAS Exploratory Advising.• Must pass Algebra II with a B or better in no more than two attempts before advancing to Pre-Engineering or Pre-Engineering Technology curriculum.• Must earn at least a C in first attempt for a second attempt. |
| MATH 1100 (Algebra I) | 'B' or better (3.0 on a 4.0 scale) | Algebra I or Computational Math Skills <ul style="list-style-type: none">• Student placed in Exploratory Advising through the Center for Academic Success Programs at WMU.• Must pass Algebra I with a B or better in no more than two attempts before advancing to CEAS Exploratory Advising. |
| No Math; place into Pre-Algebra or Algebra I per WMU placement test | | Exploratory Advising: www.wmich.edu/unv/ |

* If you have no college math then ACT scores will be used to determine placement. If you have no ACT scores then you will need to arrange a placement test with the Department of Mathematics at WMU.