



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

\* 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.