Alpena Community College

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

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

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<th>If you’ve completed the equivalent of:*</th>
<th>And received a grade of:</th>
<th>Then you are ready to take:</th>
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| 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
  - 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
  - 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. |
| MATH 1100 (Algebra I)                   | Below ‘B’ on first attempt | 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 (269) 387 - 4510.