<table>
<thead>
<tr>
<th>UWM General Education Requirements</th>
<th>UWM Equivalent</th>
<th>UWM Required Credits</th>
<th>Comp</th>
<th>Need</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art*</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities*</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social Science*</td>
<td></td>
<td></td>
<td>6^</td>
<td></td>
</tr>
</tbody>
</table>

*Can also be used to satisfy the 3 credit Cultural Diversity requirement

^ Computer Science & Computer Engineering students should take CMM 122 to fulfill 3 credits of Social Science

### MATH

- **MTH 145** Calculus and Analytic Geometry I
  - Math 231
  - 4

- **MTH 146** Calculus and Analytic Geometry II
  - Math 232
  - 4

- **MTH 246** Calculus and Analytic Geometry III*
  - Math 233
  - 4
  *Electrical Engineers need to earn a C or better grade

### NATURAL SCIENCE

- **BIO 244** Anatomy & Physiology 1
  - Bio Sci 202
  - 4
  *(Biomedical only)*

- **BIO 245** Anatomy & Physiology 2
  - Bio Sci 203
  - 4
  *(Biomedical only)*

- **CHM 120** Chemical Concepts
  - Chem 100
  - 4
  *(Biomedical only)*

- **CHM 121 & 123** General Chemistry I & II
  - Chem 102 & Chem 104
  - 5-10
  *(Civil, Computer Engineering, Industrial, Materials, Mechanical)*
  *Electrical Engineering students only need to complete CHM 121*

- **PHY 123** General Physics I
  - Phy 209 & 214
  - 5

- **PHY 124** General Physics II*
  - Phy 210 & 215
  - 5
  *Electrical Engineers need to earn a C or better grade*

### ENGINEERING & COMPUTER SCIENCE COURSES

- **EGR 125** Engineering Statics
  - Civ Eng 201
  - 3
  *(All Engineering majors except Computer & Electrical Eng)*

- **EGR 225** Engineering Dynamics*
  - Civ Eng 202
  - 3
  *(All Engineering majors except Computer & Electrical Eng)*
  *Biomedical and Mechanical Engineers need to earn a C or better grade*

- **EGR 260** Introduction to Circuit Analysis
  - Elec Eng 301
  - 3
  *(All Engineering majors except Civil Engineering)*

- **MCS 141** Computer Science I*
  - Comp Sci 250
  - 3
  *(Computer Science, Computer Engineering)*
  *Computer Engineers & Computer Science students need to earn a C or better grade*

- **MCS 142** Computer Science II*
  - Comp Sci 251
  - 3
  *(Computer Science, Computer Engineering)*
  *Computer Engineers & Computer Science students need to earn a C or better grade*

- **MCS 240** Computer Organization and Architecture*
  - Comp Sci 315
  - 3
  *(Computer Science)*
  *Computer Engineers & Computer Science students need to earn a C or better grade*

- **MTH 244** Discrete Mathematics*
  - Comp Sci 317
  - 3
  *(Computer Science, Computer Engineering)*
  *Computer Engineers & Computer Science students need to earn a C or better grade*

*Updated 7.17*
Prepatory Coursework in English or Math
Minimum of a "C" grade is required to move to the next course at

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Placement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 121</td>
<td>English Composition I</td>
<td>Eng 101</td>
<td>3</td>
</tr>
<tr>
<td>ENG 122</td>
<td>English Composition II</td>
<td>Eng 102</td>
<td>3</td>
</tr>
<tr>
<td>MTH 122</td>
<td>College Algebra</td>
<td>Math 116</td>
<td>3</td>
</tr>
<tr>
<td>MTH 123</td>
<td>Trigonometry</td>
<td>Math 117</td>
<td>2</td>
</tr>
<tr>
<td>MTH 144</td>
<td>Pre-Calculus</td>
<td>Math 116 &amp; 117</td>
<td>5</td>
</tr>
</tbody>
</table>

To be admissible to the College of Engineering & Applied Science transfer students typically have earned the following:
*A grade of a "C" or better Math 145
*A cumulative grade point average of a 3.0

Majors in the College of Engineering & Applied Science:
Biomedical Engineering
Civil Engineering
Computer Engineering
Computer Science
Electrical Engineering
Industrial Engineering
Materials Engineering
Mechanical Engineering

For more information contact the Office of Student Services at (414) 229-4667 or ceas-adv@uwm.edu