# Pre - Admitted BSME Students AY 2018-2019 and Later

**Bachelor of Science in Mechanical Engineering**

**Suggested 4 Year Course Plan**

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FALL</strong></td>
<td><strong>WINTER</strong></td>
<td><strong>SPRING</strong></td>
<td><strong>FALL</strong></td>
</tr>
<tr>
<td><strong>CALCULUS</strong></td>
<td><strong>LIN ALG</strong></td>
<td><strong>DIFF EQ</strong></td>
<td><strong>PHYSICS</strong></td>
</tr>
<tr>
<td>MTH 251</td>
<td>MTH 252</td>
<td>MTH 261</td>
<td>MTH 254</td>
</tr>
<tr>
<td>CH 227</td>
<td>CH 228</td>
<td>PH 214</td>
<td>PH 215</td>
</tr>
</tbody>
</table>

## Math / Science Requirements

### Calculus
- MTH 251
- MTH 252
- MTH 261
- MTH 254
- MTH 256

### Lin Alg
- MTH 261

### Diff Eq
- MTH 254
- MTH 256

### Physics
- PH 211
- PH 212
- PH 213

### Engineering / Computer Science Requirements

### Freshman Engineering
- ME 120
- ME 121
- ME 122

### Statics
- EAS 211

### Strength of Materials
- EAS 212

### Dynamics
- EAS 215

### Prop of Mat
- ME 213/L

### Svymfc
- ME 240/L

### Capstone
- ME 491
- ME 492
- ME 493

### Elect Circ
- ME 321

### Engr Thermo
- ME 322

### Fluid Mech
- ME 323

### Heat Transfer
- ME 324

### Elect ME
- ME 3XX

### Elect ME
- ME 3XX

### Elect ME
- ME 3XX

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- ME 3XX

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- ME 3XX

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- ME 3XX

### Elect ME
- ME 3XX

### Elect ME
- ME 3XX

### Elect ME
- ME 3XX

### Tech Report Writing
- WR 327

### General Education Requirements

### Freshman Inquiry
- UNST 1X1

### Sophomore Inquiry
- UNST 2XX

### Tech Report Writing
- WR 327

### BA 306U
- OR EC 314U

### Unst Up Div
- Clust

### Unst Up Div
- Clust

## Explanations

1. **Shaded Area = Core Admission Requirements**

   Upon admittance into the upper division program, students will be assigned one of two course plans. The plans are equal; however, junior level courses are in a different order, still meeting pre-requisites. BA 306U/EC314U and WR 327 may be listed in different terms.


   Students may substitute Physics 221-223 for Physics 211-213

   Transfer students with more than 30 credits must complete WR 121 and COMM 220 instead of FRINQ

2. **Refer to the PSU Bulletin for General Education Requirements**

   1. Approved Science Elective: Any course from Biology, Environmental Science & Management, Chemistry, Geology or Physics not explicitly listed as a degree requirement
   2. At least one of the following: UNST 220, UNST 222 (preferred), UNST 239

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**2018-2019**

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General Education Requirements
Undergraduate Engineering Programs

There are two (2) separate sets of general education requirements:

- University Requirements
- Maseeh College of Engineering and Computer Science (MCECS) Requirements

You must satisfy BOTH sets of requirements.

University Requirements

A. Freshmen entering with 29 or fewer prior university/college credits must complete all University Studies Requirements, including freshman and sophomore inquiry sequences and upper division cluster courses.

B. Continuing and transfer students with 30-89 prior university/college credits must complete the following program:
   - Sophomore Inquiry: 30-59 credits, three courses; 60-74 credits, two courses; 75-89 credits, one course. The upper division cluster must be linked with one of these Sophomore Inquiry courses.
   - Upper Division Cluster: three courses

C. Continuing and transfer students with 90 or more prior university/college credits must complete the following program:
   - University Studies requirements beginning with Upper Division Cluster Courses. It is strongly recommended that students also take the single Sophomore Inquiry courses that is linked to the chosen Upper Division Cluster.

Placement For Transfer Students

<table>
<thead>
<tr>
<th>Credits Transferred</th>
<th>University Studies Placement</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-29 Credits</td>
<td>Freshman Inquiry</td>
</tr>
<tr>
<td>30-59 Credits</td>
<td>3 Sophomore Inquiries</td>
</tr>
<tr>
<td>60-74 Credits</td>
<td>2 Sophomore Inquiries</td>
</tr>
<tr>
<td>75-89 Credits</td>
<td>1 Sophomore Inquiries</td>
</tr>
<tr>
<td>90 or more credits</td>
<td>Upper Division Cluster</td>
</tr>
</tbody>
</table>

Maseeh College of Engineering and Computer Science General Education Requirements

A. Transfer students must complete a minimum of 27 credits of University Studies courses and/or Arts and Letters/Social Science courses at either their previous college or PSU in additional to the 12 credits of required upper division cluster courses that must be taken at PSU.

B. Transfer students who have not taken Freshman Inquiry must have completed:
   - For Computer, Electrical, and Mechanical: WR 121 and COMM 220 or equivalent course
   - For Civil and Environmental: WR 121, WR 227, and COMM 100 or 220 (recommended)

C. Mechanical Engineering students must complete BA 306U Essentials of Finance or EC 314U Public & Private Investment Analysis.
   - Students may use BA 306U as a University Studies course in the following cluster:
     - Design Thinking/Innovation/Entrepreneurship
   - Students may use EC 314U as a University Studies course in the following clusters:
     - Community Studies
     - Design Thinking/Innovation/Entrepreneurship
     - Knowledge, Values and Rationality

Students should consult with their academic advisor or department chair regarding these requirements.