### Sibley School of Mechanical and Aerospace Engineering Graduation Requirements Checklist for B.S., M.E.

- **Name**: 
- **Advisor**: 
- **Expected Graduation Date**: 
- **CU Net ID**: 
- **CU ID#**: 

#### College of Engineering Requirements

**B.S., Mechanical Engineering Field Requirements**

- **Note**: No courses (with the exception of Minors) may be double-counted to fulfill the B.S., Mechanical Engineering Degree requirements

#### Engineering Common Curriculum

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Term</th>
<th>Grade</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1910</td>
<td>4</td>
<td></td>
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<td>MATH 1920</td>
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<tr>
<td>MAE 2930</td>
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<td>ENGRD 2020</td>
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<tr>
<td>ENGRD 2210</td>
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<td>ENGRD 2930</td>
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<tr>
<td>MAE 2940</td>
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#### M.E. Major Program Required Courses

- **Matlab recommended**
  - CS 11XX | 4 |
- Students entering prior to Fall 2012
  - CS 11XX | 1 |

- **Chemistry**
  - 1112 or 1116 | 4 |
- MAE 2900 | 4 |

- **Physics**
  - 1112 or 1116 | 4 |
  - 2213 or 2217 | 4 |
  - 2214 or 2218 | 4 |
- Intro Engr | 3 |
- MAE 3230 | 4 |
- MAE 3240 | 3 |
- MAE 2250 | 4 |
- MAE 3250 | 3 |
- MAE 3260 | 4 |

#### Liberal Studies Distribution

18 credits, 6-courses minimum

- Must fulfill at least three categories
  - (CA) (HA) (LA) (KCM) (SBA) (FL) (CE)
- Must include two 2000+ level
- AP credits satisfy 1000+ level

- **M.A.E. Major GPA Comprised of All Grades For Courses Listed In This Column**

#### M.E. Major Program Approved Electives

- **Physical Education**
  - AE 1 | 1 |
  - AE 2 | 1 |

- **Math Elective**
  - TAM 3100/ENGRD 2700/CEE 3040/ENGRD 3200/ENGRD 3100 |

- **Technical Elective**

- **Major Approved Electives**
  - (the same course may NOT also fulfill the Senior Design requirement)

- **(4) Advisor Approved Electives**
  - Minimum 2 courses and 6 credits

- **M.E. Major GPA Comprised of All Grades For Courses Listed In This Column**

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**For complete details of the B.S. Mechanical Engineering Major Program degree requirements, see www.mae.cornell.edu**

**Consult the College of Engineering Handbook For College of Engineering Core Curriculum requirements**

**For summary of degree requirements, see below for online version or on the back of checklist for printed version**

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**Department Approval B.S., M.E Certification**

**Date**

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**Place AP, TS, DE in Grade column, where applicable. To receive credit, these must be posted on your transcript.**

**TS=Transfer Credits, DE=Department Exam, AP=Advanced Placement**

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**Note**: No courses (with the exception of Minors) may be double-counted to fulfill the B.S., Mechanical Engineering Degree requirements.
SUMMARY OF B.S. M.E. DEGREE REQUIREMENTS

Note: No courses (with the exception of Minors) may be double-counted to fulfill the B.S., Mechanical Engineering Degree requirements

For students entering F12 and beyond, CS 1112 or CS 1114 or CS 1115 - Matlab is recommended for students intending to affiliate with M.E.

For students entering prior to Fall 2012, if CS 1110 was taken, students will need to take CS 1132. If CS 1112 was taken, CS 1130 is required. The 1-credit transition course is not required for students who entered F12 and beyond.

A minimum of six courses totaling 18 credits is required to meet the Liberal Studies requirement. These must be chosen from at least three of the following six groups: Cultural Analysis (CA); Historical Analysis (HA); Literature and the Arts (LA); Knowledge, Cognition, and Moral Reasoning (KCM); Social and Behavioral Analysis (SBA); Foreign Languages (not literature courses) (FL); and Communication in Engineering (CE). For a listing of approved and denied courses, see: http://www.engineering.cornell.edu/apps/liberalstudies/index.html

Passing the swim test is required. External transfer students are typically exempt from the P.E. requirement.

Two Advisor Approved Electives with a 6-credit minimum must be approved by student's Faculty Advisor. A completed Advisor Approved Electives form must be submitted by the final semester (by May 1 or by December 1) to the Undergraduate Office in 108 Upson Hall. This form, with guidelines listed, may be obtained in 108 Upson. Faculty Advisors may also approve these electives by e-mail with a copy sent to the M.E. undergraduate office.

ENGRD 2210 (recommended to be taken before affiliation) may simultaneously satisfy M.E. Major Program and distribution requirements.

MAE 2030, Dynamics, formerly TAM 2030.

To graduate in Mechanical Engineering: A grade of C- or better is required for all M.E. Major Program Required Courses used to satisfy the Major Program, except: MAE 3780 or Engrd 2100 or Physics 3360; Physics 2214; MAE 3272; MAE 4272; MAE 4300; and MAE 4XX1 requires a passing grade.

MAE 4272 simultaneously fulfills the College of Engineering technical writing requirement and a M.E. Major Program Requirement.

The Supervised Senior Design Experience requirement, MAE 4XX1, is satisfied as a senior to be taken concurrently with or after MAE 4300. For additional information: http://www.mae.cornell.edu/mae/academics/undergrad/memajor/designrequirements.cfm

The Math Elective requirement must be an upper-level mathematics course, which includes statistics, taken after Math 2940.

A Technical Elective can be any course at an appropriate level beyond the Engineering Core Curriculum--Math, Physics, Chemistry, or Biological Sciences (with the exception of BSOC courses). Most 2000+ level Engineering courses may be used. Note: Except for MAE 4610, courses in Economics, Business, and Organizations are NOT accepted as a Technical Elective. MAE 4980 may not be used to satisfy the technical elective requirement but may be used to fulfill an advisor approved elective (with advisor's approval). MAE 4900 may be used to fulfill this elective. There is no technical elective form.

Students must complete two upper-level courses designated as a Major Approved Electives 1 & 2. Note: MAE 4XX1 (Sr, Design) and MAE 4900 (research/team) will not be accepted as a Major Approved Elective. A Major Approved Elective may not be double-counted to also fulfill the Senior Design requirement.

Consult www.mae.cornell.edu for additional information.

To calculate the Mechanical Engineering Major GPA - include all courses on the right side of this checklist.