

Mechanical Engineering—Major Requirements for BS Degree

Effective Fall 2014

University of California, Merced

Anticipated Graduation Date (ex: May 2018) _____

Full Name: _____ ID #: _____ Email _____

| Requirement/ Course Dept # | Course Title | Grade | Units or # Required | Term/Year Completed | Substitute Approved |
|--|---|-------|---------------------|---------------------|---------------------|
| UCM Requirements | | | | | |
| -UC Entry Level Writing | | | n/a | | |
| -American History/Institutions | | | n/a | | |
| -CORE 001 | World at Home I | | 1 course | | |
| -WRI 010 | College Composition | | 1 course | | |
| School Requirements | | | | | |
| -MATH 021 | Calculus I | | 4 units | | |
| -MATH 022 | Calculus II | | 4 units | | |
| -MATH 023 | Vector Calculus | | 4 units | | |
| -MATH 024 | Linear Algebra and Differential Equations | | 4 units | | |
| -MATH 032 | Probability and Statistics | | 4 units | | |
| -PHYS 008 | Introductory Physics I | | 4 units | | |
| -PHYS 009 | Introductory Physics II | | 4 units | | |
| -ME 021 | Engineering Computing | | 4 units | | |
| -BIO 001 | Contemporary Biology | | 4 units | | |
| -Arts/Humanities GE | | | 3-4 units | | |
| -Social Science GE | | | 3-4 units | | |
| Major/Core Requirements | | | | | |
| -ENGR 097/197 or SSHA GE | | | 3 units | | |
| -Upper-division Writing Course | | | 4 units | | |
| <i>Engineering Fundamentals</i> | | | | | |
| -ENGR 045 | Introduction to Materials | | 4 units | | |
| -ENGR 057 | Statics and Dynamics | | 4 units | | |
| -ENGR 130 | Thermodynamics | | 3 units | | |
| -ENGR 151 | Strength of Materials | | 4 units | | |
| -ENGR 155 | Engineering Economics Analysis | | 3 units | | |
| <i>Mechanical Engineering Core</i> | | | | | |
| -ENGR 065 | Circuit Theory | | 3 units | | |
| -ENGR 120 | Fluid Mechanics | | 4 units | | |
| -ENGR 135 | Heat Transfer | | 4 units | | |
| -MATH 131 | Numerical Analysis I | | 4 units | | |
| -ME 120 | Component Design | | 3 units | | |
| -ME 137 | Computer Aided Engineering | | 3 units | | |
| -ME 140 | Vibration and Control | | 4 units | | |
| -ME 170 | Capstone Design | | 3 units | | |
| <i>Additional Requirements</i> | | | | | |
| -CHEM 002 | General Chemistry I | | 4 units | | |
| -ENGR 191 | Professional Seminar | | 1 unit | | |
| -Choose 12-15 units from Technical Electives | See Reverse | | 12-15 units | | |

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| Notes/Comments |
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| Advisor Signature/Date: |
| Student Signature/Date: |

This guide is an unofficial document intended to be used for advising/course planning only. This document cannot be used to supersede or waive requirements listed in the UCM Catalog unless approved by your advisor.

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Service Learning/Freshman Seminar/SSHA GE

3 units of ENGR 097/ENGR 197 or 1 SSHA GE course.

Term / Course / Team or Title / Units

| |
|----|
| 1. |
| 2. |
| 3. |

Technical Elective Courses (choose 12-15 units)

- | | |
|----------|----------|
| ME 135 | ENVE 132 |
| ME 136 | ENVE 160 |
| ME 141 | ENVE 162 |
| ME 142 | MSE 117 |
| ME 144 | MSE 118 |
| ME 190 | MATH 125 |
| ENVE 130 | MATH 126 |

| Course Dept. # | Course Title | Grade | Units | Term/Year Completed |
|----------------|--------------|-------|-------|---------------------|
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