

**Student Information**

Name: \_\_\_\_\_ OSU Email: \_\_\_\_\_

**Suggested Curriculum**

This should be used as a **guide** only. Semester offerings are subject to change.

Year	Autumn	Spring
1	___ MATH 1151 ( <i>Calculus 1</i> ) ..... 5 hr ___ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> )..... 5 hr ___ ENGR 1181 ( <i>Fundamentals of Engr 1</i> ) ..... 2 hr ___ ENGR 1100.01 ( <i>Engineering Survey</i> ) ..... 1 hr ___ General Education ..... 3 hr	___ MATH 1172 ( <i>Engineering Math A</i> ) ..... 5 hr ___ CHEM 1250 ( <i>Gen Chem for Engineers</i> ) ..... 4 hr ___ ENGR 1182 ( <i>Fundamentals of Engr 2</i> )..... 2 hr ___ General Education ( <i>Writing Level 1</i> )..... 3 hr
2	___ MATH 2173 ( <i>Engineering Math B</i> )..... 3 hr ___ PHYSICS 1251 ( <i>E&amp;M, Optics, Modern Phys</i> )..... 5 hr ___ MECHENG 2010 ( <i>Statics</i> )..... 2 hr ___ STAT 3450 ( <i>Stat Methods for Engineers</i> ) ..... 2 hr ___ ISE 2040 ( <i>Engineering Economics</i> )* ..... 2 hr ___ MATSCEN 2010 ( <i>Intro Engineering Materials</i> )† 3 hr	___ MATH 2174 ( <i>Lin Alg &amp; Diff Eq</i> )* ..... 3 hr ___ MECHENG 2020 ( <i>Mechanics of Materials</i> )* ..... 3 hr ___ MECHENG 2030 ( <i>Dynamics</i> )* ..... 3 hr ___ MECHENG 2900 ( <i>Intro to Design in ME</i> )..... 3 hr ___ MECHENG 2850.01 ( <i>Numerical Methods</i> )..... 3 hr ___ General Education ..... 3 hr
3	___ ECE 2300 ( <i>Circuits</i> )* ..... 3 hr ___ MECHENG 3260 ( <i>System Dynamics</i> )..... 3 hr ___ MECHENG 3501 ( <i>Thermodynamics</i> )..... 3 hr ___ MECHENG 3670 ( <i>Dsgn Analysis Mach Elm 1</i> )... 2 hr ___ MECHENG 3751 ( <i>Kinematics &amp; Mech Design</i> )... 2 hr ___ General Education ( <i>Writing Level 2 - 2367</i> ) ..... 3 hr	___ MECHENG 3360 ( <i>Sys Integration &amp; Control</i> )... 3 hr ___ MECHENG 3503 ( <i>Intro to Fluid Mechanics</i> )..... 3 hr ___ MECHENG 3671 ( <i>Dsgn Analysis Mach Elm 2</i> )... 3 hr ___ MECHENG 3870 ( <i>Msmts &amp; Data Analysis</i> )..... 3 hr ___ General Education ..... 3 hr
4	___ MECHENG 4510 ( <i>Heat Transfer</i> )..... 3 hr ___ ISE 4500 ( <i>Mfg Process Engineering</i> )..... 3 hr ___ MECHENG 4900 ( <i>Capstone Design 1</i> )..... 1.5 hr ___ MECHENG 490X.01 ( <i>Capstone Design 2</i> )..... 1 hr ___ Technical Elective ..... 3 hr ___ Technical Elective ..... 3 hr ___ General Education ..... 3 hr	___ MECHENG 490X.02 ( <i>Capstone Design 3</i> )..... 2.5 hr ___ MECHENG 4870 ( <i>Capstone Laboratory</i> )..... 2 hr ___ Technical Elective ..... 3 hr ___ Technical Elective ..... 3 hr ___ General Education ..... 3 hr ___ General Education ..... 3 hr

**Total hours to complete the degree program = 130**

\*These required courses can be taken without being admitted to the Mechanical Engineering major program.

† BIOLOGY 2100 (4 hours), CHEM 2000-level (3 hours or more) or above, and ANATOMY 2220 can substitute for MATSCEN 2010.

All students must satisfy a 32 credit hour minimum for math and basic sciences. Students with high math or science placements and transfer students without credit for lower courses should consult with the MAE Undergraduate Academic Advisors to ensure this minimum is met. Such students may be required to take extra coursework to meet graduation requirements.

**Acceptance Criteria**

Formal application to the major is required. Prerequisite courses to the major are English 1110.xx and the EPHR courses listed below. In order to be eligible to apply to the major students must have a minimum 2.8 EPHR; however, this minimum does not guarantee acceptance to the major. Acceptance into the Mechanical Engineering major is competitive, based on a student’s EPHR. Email [maeadvisor@osu.edu](mailto:maeadvisor@osu.edu) for more information.

EPHR courses: CHEM 1250; ENGR 1181, 1182; MATH 1172, 2173; MECHENG 2010; PHYSICS 1250, 1251; STAT 3450; or their equivalents.

