

## Student Information

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

## Suggested Curriculum

This should be used as a **guide** only. Offerings are subject to change. (**BOLD** courses offered only indicated semesters.)

| Year | Autumn   | Spring  |
|------|--|---|
| 1    | ___ ENGR 1100 ( <i>Engineering Survey</i> ) ..... 1 hr<br>___ ENGR 1181 ( <i>Fundamentals of Engr 1</i> ) ..... 2 hr<br>___ MATH 1151 ( <i>Calculus 1</i> ) ..... 5 hr<br>___ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> )..... 5 hr<br>___ General Education ..... 3 hr  | ___ ENGR 1182 ( <i>Fundamentals of Engr 2</i> ) ..... 2 hr<br>___ MATH 1172 ( <i>Engineering Math A</i> )..... 5 hr<br>___ First Chemistry*(See options below) 4-5 hr<br>___ General Education ..... 3 hr   |
| 2    | ___ MATSCEN 2010 ( <i>Intro to Engr Materials</i> )..... 3 hr<br>___ MATH 2177 ( <i>Ord &amp; Part Diff Eq</i> )..... 4 hr<br>___ PHYSICS 1251 ( <i>E&amp;M, Optics, Modern Phys</i> )..... 5 hr<br>___ Second Chemistry*(See options below).....4-5 hr  | ___ <b>MATSCEN 2241</b> ( <i>Struc &amp; Characterization</i> )..... 3 hr<br>___ <b>MATSCEN 2331</b> ( <i>Struc &amp; Char Lab</i> )..... 2 hr<br>___ <b>MATSCEN 2251</b> ( <i>Materials &amp; Thermo</i> )..... 3 hr<br>___ <b>MATSCEN 2321</b> ( <i>Modeling &amp; Sim 1</i> )..... 3 hr<br>___ General Education ..... 3 hr<br>___ General Education ..... 3 hr            |
| 3    | ___ MECHENG 2040 ( <i>Statics &amp; Mechanics</i> )..... 4 hr<br>___ <b>MATSCEN 3141</b> ( <i>Struc Transformations</i> )..... 3 hr<br>___ <b>MATSCEN 3151</b> ( <i>Transport &amp; Kinetics</i> )..... 3 hr<br>___ <b>MATSCEN 3331</b> ( <i>Materials Lab 1</i> )..... 2 hr<br>___ Technical Elective ( <i>see TE notes</i> )..... 3 hr<br>___ General Education ..... 3 hr | ___ <b>MATSCEN 3261</b> ( <i>Mechanical Behav of Mats</i> )... 3 hr<br>___ <b>MATSCEN 3271</b> ( <i>Electronic Materials</i> )..... 3 hr<br>___ <b>MATSCEN 3321</b> ( <i>Modeling &amp; Sim 2</i> )..... 2 hr<br>___ <b>MATSCEN 3332</b> ( <i>Materials Lab 2</i> )..... 2 hr<br>___ Technical Elective ( <i>see TE notes</i> )..... 3 hr<br>___ General Education ..... 3 hr |
| 4    | ___ <b>MATSCEN 4181</b> ( <i>Materials Selection</i> )..... 2 hr<br>___ MATSCEN 4381 ( <i>Senior Design 1</i> )..... 3 hr<br>___ MATSCEN Elective..... 3 hr<br>___ MATSCEN Elective..... 3 hr<br>___ MATSCEN Elective..... 3 hr<br>___ <b>MATSCEN Elective Lab</b> ..... 1 hr  | ___ MATSCEN 4382 ( <i>Senior Design 2</i> )..... 3 hr<br>___ MATSCEN Elective..... 3 hr<br>___ MATSCEN Elective..... 3 hr<br>___ General Education ..... 3 hr<br>___ General Education ..... 3 hr   |

**Total Hours to complete the degree program = 127**

\*Students can fulfill chemistry requirements with either Chem 1250+2310 (8 hours) or Chem 1210+1220 (10 hrs) or 1250+1220 (9 hours). **Please consult with academic advisor.**

## Program Options

MATSCEN Elective Lab, MATSCEN Electives, and Technical Electives are chosen based on student's interest and focus area in Materials. Generally, these can be: Biomaterials, Ceramics, Electronic Materials, Metallurgy, or Polymers.

## Acceptance Criteria

Admission to the major program requires a formal application and is based on a student's cumulative point-hour ratio (CPHR), eligibility point-hour ratio (EPhR), and additional admission to major courses.

EPhR courses: MATH 1151, 1172; ENGR 1181, 1182; CHEM 1250 or 1210; PHYSICS 1250; MATSCEN 2010; or course equivalents. Additional admission to major courses not included in EPhR calculation: ENGLISH 1110.

Applications are accepted during autumn and spring terms. **Admitted students will begin major courses in spring term, regardless of the term in which they are admitted.**

