

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 ___ ENGR 1181 (<i>Fundamentals of Engr 1</i>) 2 hr ___ MATH 1151 (<i>Calculus 1</i>) 5 hr ___ PHYSICS 1250 (<i>Mechanics, Thermal, Waves</i>)..... 5 hr ___ General Education 3 hr	___ ENGR 1182 (<i>Fundamentals of Engr 2</i>) 2 hr ___ MATH 1172 (<i>Engineering Math A</i>)..... 5 hr ___ First Chemistry*(See options below) 4-5 hr ___ General Education 3 hr
2	___ MATSCEN 2010 (<i>Intro to Engr Materials</i>)..... 3 hr ___ MATH 2177 (<i>Ord & Part Diff Eq</i>)..... 4 hr ___ PHYSICS 1251 (<i>E&M, Optics, Modern Phys</i>)..... 5 hr ___ Second Chemistry*(See options below).....4-5 hr	___ MATSCEN 2241 (<i>Struc & Characterization</i>)..... 3 hr ___ MATSCEN 2331 (<i>Struc & Char Lab</i>)..... 2 hr ___ MATSCEN 2251 (<i>Materials & Thermo</i>)..... 3 hr ___ MATSCEN 2321 (<i>Modeling & Sim 1</i>)..... 3 hr ___ General Education 3 hr ___ General Education 3 hr
3	___ MECHENG 2040 (<i>Statics & Mechanics</i>)..... 4 hr ___ MATSCEN 3141 (<i>Struc Transformations</i>)..... 3 hr ___ MATSCEN 3151 (<i>Transport & Kinetics</i>)..... 3 hr ___ MATSCEN 3331 (<i>Materials Lab 1</i>)..... 2 hr ___ Technical Elective (<i>see TE notes</i>)..... 3 hr ___ General Education 3 hr	___ MATSCEN 3261 (<i>Mechanical Behav of Mats</i>)... 3 hr ___ MATSCEN 3271 (<i>Electronic Materials</i>)..... 3 hr ___ MATSCEN 3321 (<i>Modeling & Sim 2</i>)..... 2 hr ___ MATSCEN 3332 (<i>Materials Lab 2</i>)..... 2 hr ___ Technical Elective (<i>see TE notes</i>)..... 3 hr ___ General Education 3 hr
4	___ MATSCEN 4181 (<i>Materials Selection</i>)..... 2 hr ___ MATSCEN 4321 (<i>Modeling & Sim 3</i>)..... 3 hr ___ MATSCEN 4381 (<i>Senior Design 1</i>)..... 3 hr ___ MATSCEN Elective..... 3 hr ___ MATSCEN Elective..... 3 hr ___ MATSCEN Elective Lab 1 hr	___ MATSCEN 4382 (<i>Senior Design 2</i>)..... 3 hr ___ MATSCEN Elective..... 3 hr ___ MATSCEN Elective..... 3 hr ___ General Education 3 hr ___ 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.**

