Bachelor of Science
Materials Science Comprehensive Major
Curriculum Flow Chart

Starting in Chem 105 and Math 114

**Fall, Year 1**
- CHEM 105 (3) and CHEM 106 (2) General Chemistry 1
- MATH 114 (4) Calculus 1

**Spring, Year 1**
- PHYS 231 (5) University Physics 1
- MATH 215 (4) Calculus 2

**Fall, Year 2**
- CHEM 109 (4) General Chemistry 2
- MSE 221 (3) Introduction to Materials Science and Engineering
- MSE 286 (1) Engineering Sophomore Seminar

**Spring, Year 2**
- Chem 325 (4) Organic Chemistry
- PHYS 232 (5) University Physics 2

**Fall, Year 3**
- MSE 315 (4) Materials Characterization
- MSCI/MSE Elective

**Spring, Year 3**
- MSE 317 (4) Phase Transformations and Kinetics
- MSCI 384 (1) Junior Seminar

**Fall, Year 4**
- MSE 334 (4) Soft Materials
- MSCI/MSE Elective

**Spring, Year 4**
- MSE 350 (4) Thermodynamics
- MSCI 484 (1) MSCI Capstone I

**6-Credit Elective**
6 Credits from courses with MSCI or MSE prefix (beyond those required for the core). Choose from 256, 307, 362, 363, 367, 368, 372, 374, 395, 399, 451, 475, 493, 494 or 499. Up to 3 credits from MSCI 395, MSCI 399, and MSCI 499 and MSE 493 and MSE 494 may count towards the elective requirement.

**6-Credit Emphasis**
6 emphasis credits must meet the requirements in either A or B:
A: Be from the same prefix; be from the following prefixes: BIOL, BME, CHEM, CS, GEOL, MATH, MGMT, PHYS; be from UWEC courses numbered 300 or above, or from courses appropriate for a major (See catalog for examples of appropriate sub 300 level courses).

B: The student may pursue an emphasis that reflects a thematic area of concentration and intentional connection. Consult with your faculty advisor.