2015-2016 B.S. in Materials Science and Engineering Flow Chart

Fall Year 1
- CH1150 (3) Univ. Chemistry I F,Sp,Su
- CH1151 (1) Univ. Chem. Lab I F,Sp,Su
- ENG1101 (3) Eng. Analysis & Prob. Solving F,Sp,Su
- MA1160 (4) Calculus I F,Sp,Su
- PH1100 (1) Physics by Inquiry I F,Sp,Su
- UN1015 (3) Composition F,Sp,Su
- 15 Credits

Spring Year 1
- CH1150/51
- ENG1102 (3) Eng. Modeling and Design F,Sp,Su
- MA1160 (4) Calculus II F,Sp,Su
- MA2160 (4) Calculus II F,Sp,Su
- PH1200 (1) Physics by Inquiry II F,Sp,Su
- 17 Credits

Fall Year 2
- CH1160 (3) Univ. Chemistry II F,Sp,Su
- CH1161 (1) Univ. Chem. Lab II F,Sp,Su
- MA1360 (4) Calculus III F,Sp,Su
- MA2321 (2) Linear Algebra (Track A) F,Sp,Su
- PH2100 (3) University Physics I F,Sp,Su
- Social Responsibility and Ethical Reasoning Elective (3) F,Sp,Su
- 17 Credits

Spring Year 2
- MA2160
- MA3521 (2) Differential Eq. (Track B) F,Sp,Su
- MEEM2110 (3) Statics F,Sp,Su
- MEEM2150 (3) Mechanics of Materials F,Sp,Su
- EC3400 (3) Economic Decision Analysis F,Sp,Su
- 17 Credits

Fall Year 3
- MY2100, MA2160
- MA3521
- MY3100 (4) Materials Processing I F
- MY3110 (4) Materials Processing II F
- MY3500 (3) Semiconductors F
- MEEM2150, MY3300, MY3210
- 17 Credits

Spring Year 3
- MY2110
- MY3210
- MY3300 (3) Design of Microstructure F
- MY4920 (2) Senior Design Project 1 F
- MY4920 (2) Senior Design Project II Sp
- MY4930 (2) Approved Elective (3) Sp
- 16 Credits

Fall Year 4
- MY2110
- MA3521
- MY3100
- MY3210
- MY4940 (2) MSE Design of Experiments Sp
- MEEM2150, MY3300, MY3210
- Mechatronics of Materials F
- 13 Credits

Spring Year 4
- MY4940 (2) Approved Elective (3)
- MY4930 (2) Approved Elective (3)
- Free Elective (2)
- 13 Credits

131 credits required (128 shown). Students must complete 3 credits of Co-Curricular activities.
Black arrows represent prerequisites, red arrows represent concurrent prerequisites. Approved Electives are courses in Science Engineering or Mathematics at 3xxx level or higher. Courses with dark outline (e.g. MY3210) are required to be “Senior Design Ready” (All are prerequisites for MY4920). Italicized courses have MY2100 as a prerequisite. Students must take at least 6 credits of General Education (HASS) at 3xxx+ level in addition to EC3400.
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