

# B.S. CIVIL ENGINEERING

## Plan of Study (Minor in Material Science Eng.)

Year 1	<b>Fall</b>		<b>Spring</b>
	FYEX Foundation for College Success		
	<b>ENGR 100</b> Introduction to Engineering Design + <b>ENGR 162</b> Intro to Eng. Graphics (3 Cr.)		<b>DASC 120</b> Statistics I (Lab)
	<b>MATH 113</b> Calculus I		<b>MATH 114</b> Calculus II
	<b>GEOL 163</b> Applied Geology (Lab)		<b>PHYS 211</b> Classical Physics I
	CORE requirement		CORE requirement
	<b>January-term</b>		<b>Summer</b>
CORE requirement			
Year 2	<b>Fall</b>		<b>Spring</b>
	<b>ENGR 160</b> Surveying (2 Cr.)		
	<b>ENGR 220</b> Statics		<b>ENGR 221</b> Mechanics of Materials (Lab)
	<b>MATH 210</b> Introduction to Differential Equations & Systems		<b>SCI/MATH</b> Elective (4 Cr.)
	<b>CHEM 109</b> General Chemistry for Engineers (Lab) –OR– <b>CHEM 111</b> General Chemistry I (Lab)		<b>ENGR 368</b> Fluids Mechanics for Civil Engineering (Lab)
	CORE requirement		<b>ENGR 361</b> Engineering Materials (Lab)
	<b>January-term</b>		<b>Summer</b>
CORE requirement		CORE requirement	
Year 3	<b>Fall</b>		<b>Spring</b>
	<b>ENGR 362</b> Construction & Engineering Economic Analysis (Lab)		<b>CIVIL</b> Major Course
	<b>CIVIL</b> Major Course		<b>CIVIL</b> Major Course
	<b>CIVIL</b> Major Course		<b>CIVIL</b> Major Course
	CORE requirement		CORE requirement
	<b>January-term</b>		<b>Summer</b>
CORE requirement		<b>IDSC 365</b> Materials Science & Engineering Practicum	
Year 4	<b>Fall</b>		<b>Spring</b>
	<b>CIVIL</b> Major Course		<b>CIVIL</b> Major Course
	<b>CIVIL</b> Elective Course		<b>ENGR XXX</b> Thermodynamics Elective
	<b>ENGR 480</b> Design Clinic I		<b>ENGR 481</b> Design Clinic II
	CORE requirement		CORE requirement
<b>January-term</b>		<b>Summer</b>	

REFERENCE THE GENERAL PLAN OF STUDY FOR CURRICULUM REQUIREMENTS AND COURSE OFFERINGS

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### Materials Science Engineering Minor:

- \*Courses with asterisk are requirements for both civil engineering and the MSE minor
- ENGR 361 - Engineering Materials (4 credits)
- IDSC 365 – Materials Science & Engineering Practicum (0 credits)
- \*ENGR/ Materials Electives (4 credits)
- Materials Elective (outside of ENGR) (4 credits)
- Thermodynamics Elective (may be fulfilled by CHEM 331, ENGR 381, GEOL 340, or PHYS 410) (4 credits)
- 24 Materials Credits (8 credits are also included in the civil engineering major requirements)