## B.S. CIVIL ENGINEERING  
(Entrepreneurship Minor)  
**Plan of Study**

*arrow indicates that the two courses can be interchanged

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>1</td>
<td>FYEX Foundation for College Success</td>
<td>ENGR 100 (FYE) Introduction to Engineering Design</td>
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<tr>
<td></td>
<td>ENGR 160 Surveying</td>
<td>GEOL 163 Applied Geology (Lab)</td>
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<td></td>
<td>MATH 113 Calculus I</td>
<td>MATH 114 Calculus II</td>
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<td>CISC 130 Introduction to Programming &amp; Problem Solving in the Sciences</td>
<td>PHYS 211 Classical Physics I</td>
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<td>CORE requirement</td>
<td>ENTR 220 Entrepreneurial Thinking</td>
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<td>January-term</td>
<td>CORE requirement</td>
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<td>2</td>
<td>ENGR 220 Statics</td>
<td>ENGR 221 Mechanics of Materials (Lab)</td>
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<td>MATH 210 Introduction to Differential Equations &amp; Systems</td>
<td>ENGR 222 General Dynamics</td>
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<td>CHEM 109 General Chemistry for Engineers (Lab)</td>
<td>STAT 220 Statistics I (Lab)</td>
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<td>CORE requirement</td>
<td>ENTR 250 Fundamentals of Innovation</td>
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<td>January-term</td>
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<td>3</td>
<td>ENGR 362 Construction &amp; Engineering Economic Analysis (Lab)</td>
<td>ENGR 363 Construction Materials (Lab)</td>
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<td>ENGR 364 Structural Analysis</td>
<td>ENGR 365 Design of Steel &amp; Concrete Structures (Lab)</td>
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<td>ENGR 368 Fluids Mechanics for Civil Engineering (Lab)</td>
<td>PHYS 212 Classical Physics II</td>
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<td>ENTR XXX Entrepreneurship Elective</td>
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<td>4</td>
<td>ENGR 480 Engineering Design Clinic I</td>
<td>ENGR 481 Engineering Design Clinic II</td>
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<td>ENGR 463 Soil Mechanics and Foundations (Lab)</td>
<td>ENGR 468 Environmental Engineering</td>
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<td>ENGR 467 Water Resources</td>
<td>ENGR 466 Transportation Engineering</td>
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<td>Summer</td>
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* this indicates just one example of how all courses could be taken within a 4-year plan

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Complete Course Listing:

Engineering Courses:
- ENGR 100 – Introduction to Engineering Design (2 credits)
- ENGR 160 – Surveying (1 credit)
- ENGR 220 – Statics (4 credits)
- ENGR 221 – Mechanics of Materials (4 credits)
- ENGR 222 – General Dynamics (2 credits)
- ENGR 362 – Construction & Engineering Economic Analysis (4 credits)
- ENGR 363 – Construction Materials (4 credits)
- ENGR 364 – Structural Analysis (4 credits)
- ENGR 365 – Design of Steel & Concrete Structures (4 credits)
- ENGR 368 – Fluid Mechanics for Civil Engineering (4 credits)
- ENGR 463 – Soil Mechanics & Foundations (4 credits)
- ENGR 466 – Transportation Engineering (4 credits)
- ENGR 467 – Water Resources (4 credits)
- ENGR 468 – Environmental Engineering (4 credits)
- ENGR 480 – Engineering Design Clinic I (4 credits)
- ENGR 481 – Engineering Design Clinic II (4 credits)
57 Engineering Credits

Allied Requirements:
- MATH 113 – Calculus I (4 credits)
- MATH 114 – Calculus II (4 credits)
- MATH 210 – Introduction to Differential Equations and Systems (4 credits)
- PHYS 211 – Classical Physics I (4 credits)
- PHYS 212 – Classical Physics II (4 credits)
- CISC 130 – Introduction to Programming and Problem Solving in the Sciences (4 credits)
- GEOL 163 – Applied Geology (4 credits)
- CHEM 109 – General Chemistry for Engineers (4 credits)
- STAT 220 – Statistics I (4 credits)
36 Allied Requirement Credits

Entrepreneurship Minor Requirements:
- ENTR 220 Entrepreneurial Thinking (4 credits)
- ENTR 250 Fundamentals of Innovation (4 credits)
Choose three elective courses:
  - ENTR 340 Social Entrepreneurship (4 credits)
  - ENTR 348 Franchise Management (4 credits)
  - ENTR 349 Family Business Ownership (4 credits)
  - ENTR 360 Creativity & Change (4 credits)
  - ENTR 370 Entrepreneurial Financial Resource Management (4 credits)
  - ENTR 371 Silicon Valley & Entrepreneurial Thinking (4 credits)
  - ENTR 380 Entrepreneurship in Practice (4 credits)
  - ENTR 490 Topics (4 credits)
Or choose two elective courses and one from the list below:
  - MUSC 363 Emerging Models in Music Industry (4 credits)
  - MUSC 480 Music Business Seminar (4 credits)
  - SOWK 430 Development & Fundraising for Social Service Agencies (4 credits)
  - ENTR 330 Entrepreneurship Sustainability (4 credits)
Any 300-level Opus College of Business course, with approval from Entrepreneurship department chair
20 Entrepreneurship Minor Credits

University of St. Thomas Core Curriculum:
- FYEX Foundation for College Success (1 credit)
- Language and Culture (0-8 credits)
- Literature and Writing (4 credits)
- Philosophy and Theology (12 credits)
- Social Analysis (4 credits)
- Fine Arts (4 credits)
- Historical Studies (4 credits)
- Integrations in the Humanities (8 credits)
Some of these courses must satisfy the flagged requirements; check your degree evaluation
45 Core Curriculum Credits

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