# B.S. COMPUTER ENGINEERING (Math 114)

## Plan of Study

<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 175 Introduction to Electrical &amp;</td>
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<td></td>
<td>Computer Engineering</td>
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<td>ENGR 100 (FYE) Introduction to</td>
<td>MATH 210 Introduction to Differential</td>
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<td>Engineering Design</td>
<td>Equations &amp; Systems</td>
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<td>MATH 114 Calculus II</td>
<td>PHYS 211 Classical Physics I</td>
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<td>CISC 130 Introduction to Programming &amp;</td>
<td>CISC 230 Object-Oriented Design &amp; Programming</td>
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<td>Problem Solving in the Sciences</td>
<td>ENGR 331 Designing with Microprocessors (Lab)</td>
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<td>CORE requirement</td>
<td>MATH 128 Introduction to Discrete Mathematics</td>
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<td><strong>January-term</strong></td>
<td><strong>Summer</strong></td>
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<td><strong>CORE requirement</strong></td>
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* arrow indicates that the two courses can be interchanged

* this illustrates just one example of how all courses could be taken within a 4-year plan

BSCPE 114 | Rev: 04/19/2020
Complete Course Listing:

Engineering Courses:
ENGR 100 - Introduction to Engineering Design (2 credits)
ENGR 175 - Introduction to Electrical & Computer Engineering (2 credits)
ENGR 230 - Digital Design (4 credits)
ENGR 240 - Circuit Analysis (4 credits)
ENGR 330 - Microprocessor Architectures (4 credits) or CISC 340 Computer Architecture (4 credits)
ENGR 331 - Designing with Microprocessors (4 credits)
ENGR 345 - Electronics I (4 credits)
ENGR 431 - Design of Embedded Systems (4 credits)
ENGR 432 - Current Trends in Computing Systems (4 credits)
ENGR 480 - Engineering Design Clinic I (4 credits)
ENGR 481 - Engineering Design Clinic II (4 credits)
40 Engineering Credits

Allied & Elective Requirements:
MATH 114 - Calculus II (4 credits)
MATH 128 - Introduction to Discrete Mathematics (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 Sciences (4 credits)
CISC 230 - Object-Oriented Design and Programming (4 credits)
CISC 231 - Data Structures using Object-Oriented Design (4 credits)
ENGR/CISC XXX - Elective (8 credits)
MATH/SCI XXX - Elective (8 credits)
48 Allied & Elective Requirement 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