Program Faculty
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Program Requirements
☐ Check off when completed
Science and Engineering Core: Required
Course
☐ BIOI/CHEM 1755 Research Fundamentals ............. 3
☐ CHEM 2730 Instrumental Analysis ..................... 4
☐ BIOI/CHEM/ENGR 2790 Research Project for Science and Engineering Technology ............. 3
Subtotal .................................................. 10
Science and Engineering Focus (Select one focus area)
Chemistry
☐ CHEM 1712 Principles of Chemistry 2 ............. 4
☐ CHEM 2720 Organic Chemistry 1 ..................... 5
☐ CHEM 2721 Organic Chemistry 2 ..................... 5
☐ Science or Engineering Electives ..................... 6
Biolo
☐ BIOL 1740 General Biology 1 ..................... 5
☐ BIOL 2750 Microbiology ..................... 4
☐ BIOL 2755 Genetics ..................... 4
☐ Science or Engineering Electives ..................... 7
Engineering
☐ ENGR 1707 Introduction to Engineering ............. 3
☐ PHYS 1720 or 2700 Principles of Physics 1
OR General Physics 1 .......................... 4-5
☐ PHYS 1722 Principles of Physics 2
OR 2710 General Physics 2 ..................... 4-5
☐ Science or Engineering Electives ..................... 7-9
Focus Subtotal ........................................... 20

Total Program Credits ..................................... 60

See back of this guide for Program Start Dates & Course Sequence

Minimum Program Entry Requirements
Students entering this program must meet the following minimum program entry requirements:
Reading: Score of 250+ or grade of “C” or better in READ 0722
Writing: Score of 250+ on Reading Comprehension or grade of “C” or better in ENGL 0922
Adv. Algebra & Functions: Score of 250+ or grade of “C” or better in MATH 0920
Assessment Results and Prerequisites:
Students admitted into Saint Paul College programs may need to complete additional courses based on assessment results and course prerequisite requirements. Certain MATH, READ, and ENGL courses have additional prerequisites.

This Program Requirements Guide is not a contract.
### Science and Engineering Technology AS DEGREE (continued)

#### Program Start Dates
Fall, Spring, Summer

#### Course Sequence
This course sequence is recommended for a full-time student; however, this sequence is not required. Not all courses are offered each semester; a selection of courses is offered summer term. Students should consult with the Program Faculty each semester.

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
<th>Third Semester</th>
<th>Fourth Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Goal 1:</strong> ENGL 1711 Composition 1 <strong>4</strong></td>
<td><strong>BIOL/CHEM 1755 Research Fundamentals</strong> <strong>3</strong></td>
<td><strong>Goal 1:</strong> COMM 17XX <strong>3</strong></td>
<td><strong>Goal 3:</strong> BIOL/CHM/ENGR 2790 Research Project for Science and Engineering Technology <strong>3</strong></td>
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<td><strong>Goal 3:</strong> CHEM 1711 Principles of Chemistry 1 <strong>4</strong></td>
<td><strong>Goal 4:</strong> MATH XXXX <strong>3-4</strong></td>
<td><strong>Goal 3:</strong> CHEM 2730 Instrumental Analysis <strong>4</strong></td>
<td><strong>MnTC Elective:</strong> <strong>3</strong></td>
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<tr>
<td><strong>Goal 5:</strong> History, Social Science and Behavioral Sciences <strong>3</strong></td>
<td><strong>MnTC Elective: ENGL 1712 Composition 2 (Recommended)</strong> <strong>2</strong></td>
<td><strong>Chemistry Focus:</strong> <strong>5</strong></td>
<td><strong>Chemistry Focus:</strong> <strong>4</strong></td>
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<tr>
<td><strong>Total Semester Credits</strong> <strong>14-15</strong></td>
<td><strong>Chemistry Focus:</strong> <strong>CHEM 1712 Principles of Chemistry 2</strong> <strong>5</strong></td>
<td><strong>Science or Engineering Electives</strong> <strong>3-4</strong></td>
<td><strong>Science or Engineering Electives</strong> <strong>3</strong></td>
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<tr>
<td><strong>Second Semester</strong></td>
<td><strong>Biology Focus:</strong> <strong>BIOL 1740 General Biology 1</strong> <strong>5</strong></td>
<td><strong>Biology Focus:</strong> <strong>CHEM 2721 Organic Chemistry 2</strong> <strong>5</strong></td>
<td><strong>Biology Focus:</strong> <strong>CHEM 2721 Organic Chemistry 2</strong> <strong>5</strong></td>
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<td><strong>Goal 6:</strong> Humanities and Fine Arts <strong>3</strong></td>
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<td><strong>Science or Engineering Electives</strong> <strong>3</strong></td>
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<td><strong>Engineering Focus:</strong> <strong>PHYS 1720/2700 Physics 1</strong> <strong>4-5</strong></td>
<td><strong>Engineering Focus:</strong> <strong>PHYS 1722/2710 Physics 2</strong> <strong>4-5</strong></td>
<td><strong>Science or Engineering Electives</strong> <strong>3</strong></td>
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<tr>
<td><strong>ENGR 1707 Introduction to Engineering</strong> <strong>3</strong></td>
<td><strong>Science or Engineering Electives</strong> <strong>3</strong></td>
<td><strong>Engineering Focus:</strong> <strong>4-6</strong></td>
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<td><strong>Total Semester Credits</strong> <strong>15-17</strong></td>
<td><strong>Goal 3:</strong> BIOL 2755 Genetics <strong>4</strong></td>
<td><strong>Goal 6:</strong> Humanities and Fine Arts <strong>3</strong></td>
<td><strong>Goal 6:</strong> Humanities and Fine Arts <strong>3</strong></td>
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<td><strong>Science or Engineering Electives</strong> <strong>3-4</strong></td>
<td><strong>Total Semester Credits</strong> <strong>14-16</strong></td>
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<td></td>
<td><strong>Engineering Focus:</strong> <strong>4-6</strong></td>
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<td><strong>Total Program Credits</strong> <strong>60</strong></td>
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