## BEng in Chemical Engineering

### Major Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CENG 1010</td>
<td>Academic and Professional Development I</td>
<td>0</td>
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<tr>
<td>CENG 2110</td>
<td>Process and Product Design Principles</td>
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</tr>
<tr>
<td>CENG 2210</td>
<td>Chemical and Biological Engineering Thermodynamics</td>
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<tr>
<td>CENG 2310</td>
<td>Modeling for Chemical and Biological Engineering</td>
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<tr>
<td>CENG 3150</td>
<td>Integrated Chemical Process &amp; Product Design</td>
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<tr>
<td>CENG 3210</td>
<td>Separation Processes</td>
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<td>CENG 3220</td>
<td>Heat and Mass Transfer</td>
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<tr>
<td>CENG 4020</td>
<td>Academic and Professional Development II</td>
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<td>ENGG 1010</td>
<td>Academic Orientation</td>
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<tr>
<td>LANG 2030</td>
<td>Technical Communication I</td>
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### Major Requirement Courses and Electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>BIEN 1010</td>
<td>Introduction to Biomedical Engineering</td>
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<tr>
<td>CHEM 1010</td>
<td>General Chemistry</td>
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<tr>
<td>CHEM 1050</td>
<td>Laboratory for General Chemistry I</td>
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<tr>
<td>ENGG 2010</td>
<td>Engineering Seminar Series</td>
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<td>LIFS 1901</td>
<td>Life Sciences Introduction</td>
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<tr>
<td>MATH 1003</td>
<td>Calculus and Linear Algebra</td>
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<tr>
<td>MATH 1012</td>
<td>Calculus II</td>
<td>3</td>
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<tr>
<td>MATH 1013</td>
<td>Calculus III</td>
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<tr>
<td>MATH 1020</td>
<td>Calculus I</td>
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<td>MATH 1023</td>
<td>Advanced Calculus</td>
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<tr>
<td>PHYS 1112</td>
<td>Honors General Physics I</td>
<td>3</td>
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<tr>
<td>PHYS 1312</td>
<td>Honors General Physics II</td>
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<tr>
<td>PHYS 2312</td>
<td>Honors General Physics III</td>
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<tr>
<td>PHYS 2322</td>
<td>Honors General Physics IV</td>
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<tr>
<td>SBMT 1111</td>
<td>Business Student Induction</td>
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<tr>
<td>COMP 1021</td>
<td>Programming with C++</td>
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<tr>
<td>COMP 1022P</td>
<td>Programming with C++</td>
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<td>COMP 2011</td>
<td>Programming with C++</td>
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<tr>
<td>ECON 2123</td>
<td>Microeconomics</td>
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<tr>
<td>ECON 3123</td>
<td>Macroeconomic Theory</td>
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<tr>
<td>ENG 1010</td>
<td>English for Academic Purposes</td>
<td>3</td>
</tr>
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### Required credits for Major Requirements Courses and Electives

- **Total Required Credits:** 24

### Additional Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>COMP 3400</td>
<td>Python Programming for Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>LABU 2040</td>
<td>Business Case Analyses</td>
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<td>LABU 2060</td>
<td>Effective Communication in Business</td>
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<tr>
<td>MGMT 2010</td>
<td>Business Ethics and the Individual</td>
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<td>MARK 2120</td>
<td>Marketing Management</td>
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<tr>
<td>ISOM 2600</td>
<td>Introduction to Business Analytics</td>
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</tr>
<tr>
<td>ISOM 2700</td>
<td>Operations Management</td>
<td>3</td>
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<tr>
<td>ACCT 2010</td>
<td>Principles of Accounting I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 3010</td>
<td>Financial Accounting I</td>
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</tr>
<tr>
<td>ACCT 3030</td>
<td>Financial Accounting II</td>
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</tr>
<tr>
<td>FINA 3203</td>
<td>Derivative Securities</td>
<td>3</td>
</tr>
<tr>
<td>FINA 3303</td>
<td>Intermediate Corporate Finance</td>
<td>3</td>
</tr>
<tr>
<td>FINA 3810</td>
<td>Bloomberg Market Concepts Certification</td>
<td>0</td>
</tr>
<tr>
<td>SBMT 1111</td>
<td>Business Student Induction</td>
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</tr>
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</table>

### Required credits for Additional Requirements

- **Total Required Credits:** 24

### University CORE

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<tr>
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<tbody>
<tr>
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<td>Laboratory for General Chemistry I</td>
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</tr>
<tr>
<td>MATH 1013</td>
<td>Calculus III</td>
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</tbody>
</table>

### Sub-total for University CORE

- **Total Required Credits:** 12

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### Remarks on course(s):

- **Remarks:**
  - (course code prefix) Information on course offering and scheduling, students should check it out from respective School and Department.
  - * Courses offered in winter term
  - ( ) indicates the reuse of the same course to fulfill more than one requirement.
  - **Remarks:**
    - To graduate, students should complete all requirements as specified for DDP.
    - Notes:
      - ( ) Indicates the reuse of the same course to fulfill more than one requirement.
      - * Courses offered in winter term
      - Notes refer to the Program Catalogue Curriculum Interal in all subsequent requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.
      - **Remarks**:
        - For the content of this document is not necessarily equivalent to the complete set of graduation requirements of the program. Students should refer to the Program Catalogue Curriculum Interal for updated graduation requirements. For up-to-date information on course offering and scheduling, students should check it out from respective School and Department.
      - **Waived** for DDP students
      - **Required for DDP students**