South Dakota School of Mines and Technology
FY16 Tuition & Fees by Major

**Major: Chemical Engineering, BS***

- Undergraduate Resident Tuition: $151.00
- University Support Fee: $93.80
- General Activity Fee: $47.30
- Discipline Fee: $80.00
  - includes: Science/Technology/Engineering/Atmospheric & Environmental Science, Chemistry, Geology/ Nanoscience/Paleontology, Physics
- Discipline Fee: $40.00
  - includes: Biology/Microbiology/Anatomy, Mathematics/Statistics
- Other Sciences Discipline Fee (Geography): $20.00
- Computer Science Discipline Fee: $45.00
- Fine Arts Discipline Fee: $15.00

**Tuition & Required Other General Education Requirements**

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Cr</th>
<th>Hrs</th>
<th>Fees</th>
<th>Discipline Fee</th>
<th>Charges</th>
<th>Total Cost</th>
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<td>SGR 1 - ENGL 101 (Composition I)</td>
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**Major Requirements**

- CBE 111-111L (Introduction to Chemical Processing Modeling) | 2 |     | $584.20 | $160.00 |         | $744.20    |
- CBE 117L (Programming for CBE) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CBE 217 (Chemical Engineering Material Balances) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 218 (Chemical Engineering Fluid Mechanics) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 222 (Chemical Engineering Process Thermodynamics) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 250 (Computer Applications in Chemical Engineering) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CBE 317 (Chemical Engineering Heat Transfer) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 318 (Chemical Engineering Mass Transfer) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 321 (Chemical Engineering Equilibrium Thermodynamics) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 333 (Process Measure and Control) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CBE 333L (ChemE Process Controls Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CBE 343 (Chemical Kinetics/Reactor Design) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 361L (ChemE Fluids Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CBE 362L (ChemE Heat Transfer Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CBE 364 (Chemical Process Design Economic Safety) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CBE-417 (ChemE Equilibrium Separations) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CBE 433 (Process Control) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CBE 461L (ChemE Mass Trans/Reac Engineering Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CBE 463 (Process Design for ChemE) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CBE 465 (Advanced Process and Equipment Design) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CBE 466 (Capstone Design for ChemE) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CBE 487 (Contemporary Issues in ChemE) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CHEM 114 (General Chemistry II) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CHEM 114L (General Chemistry II Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CHEM 220L (Exp. Organic Chem I) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CHEM 326 (Organic Chemistry I) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CHEM 328 (Organic Chemistry II) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- CHEM 332 (Analytical Chem) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CHEM 332L (Analytical Chem Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CHEM 342 (Physical Chemistry I) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- CHEM 342L (Physical Chemistry I Lab) or CHEM 344L (Physical Chemistry II Lab) | 1  |     | $292.10 | $80.00 |         | $372.10    |
- CHEM 344 (Physical Chemistry II) | 2  |     | $584.20 | $160.00 |         | $744.20    |
- MATH 125 Calculus II) | 4  |     | $1,168.40 | $160.00 |         | $1,328.40  |
- MATH 225 (Calculus III) | 4  |     | $1,168.40 | $160.00 |         | $1,328.40  |
- MATH 321 (Differential Equations) | 3  |     | $876.30 | $120.00 |         | $996.30    |
- PHYS 213 (University Physics II) | 3  |     | $876.30 | $240.00 |         | $1,116.30  |
- **Electives**
  - Biology Elective | 3  |     | $876.30 | $120.00 |         | $996.30    |
  - Chemical Engineering Elective | 6  |     | $1,752.60 | $480.00 |         | $2,232.60  |
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<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
<th>Cost per Credit Hour</th>
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<td>Chemical Engineering Lab Elective</td>
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<td>Department Approved Elective</td>
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<td><strong>Total Major Requirements</strong></td>
<td>98</td>
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<td><strong>Total General Ed &amp; Major Requirements - Resident</strong></td>
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**Average Cost per Credit Hour** $353.64

* These breakdowns were taken from the 2015-2016 catalog checklist for Chemical Engineering and approved curriculum requests.