### Year 2:

#### Term A
- AM 2270a Applied Math for Engineering II
- GPE 2213a Green Chemistry I
- CBE 2214a Engineering Thermodynamics
- CBE 2220a Chemical Process Calculations
- CBE 2290a Fundamental of Biochemical and Environmental Engineering
- Writing Building Better (Communication) Bridges: Rhetoric &
- 2130f Professional Communication for Engineers

#### Term B
- AM 2277b Applied Math Chemical and Civil Engineering III
- GPE 2214b Green Chemistry II
- CBE 2224b Chemical Engineering Thermodynamics
- CBE 2221b Fluid Flow
- CBE 2291b Computational Methods for Engineers
- ECE 2238b Introduction to Electrical Engineering

### Year 3:

#### Term A
- CBE 3318a Introduction to Chemical Process Simulation
- GPE 3315a Reaction Engineering with Green Engineering Applications
- CBE 3322a Heat Transfer Operations
- GPE 3385a Green Power
- GPE 3383a Solar and Fuel Cells
- GPE 3395y Green Process Engineering Laboratory Course

#### Term B
- CBE 3310b Process Dynamics & Control
- CBE 3324b Mass Transfer Operations
- GPE 3382b Fundamentals of Green Process Engineering and safety
- CBE 3323b Staged Operations
- SS 2143b Applied Statistics and Data Analysis
- GPE 3386b Sustainable Engineering Life Cycle Analysis and Case Studies
- GPE 3395y Green Process Engineering Laboratory Course

### Year 4:

#### Term A
- GPE 4497 Green Process Design
- GPE 4484a Green Fuels and Chemicals
- GPE 4415* Green Process Engineering Project
- 1.0 non-technical elective taken from the approved list
- One of: CBE 4407a/b, CBE 4409a/b, CEE 4405a/b

#### Term B
- GPE 4497 Green Process Design
- GPE 4415* Green Process Engineering Project
- ES 4498G Engineering Ethics, Sustainable Development and the Law
- 0.5 non-technical elective taken from the approved list

### Technical Elective List:

Some technical electives may not be offered in a given academic year. Consult the department or academic calendar for accurate listing.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBE 3330a/b</td>
<td>Bioreaction and Bioprocess Engineering</td>
</tr>
<tr>
<td>CBE 4407a/b</td>
<td>Solid Waste Treatment</td>
</tr>
<tr>
<td>CBE 4409a/b</td>
<td>Wastewater Treatment</td>
</tr>
<tr>
<td>CBE 4417a/b</td>
<td>Catalytic Processes</td>
</tr>
<tr>
<td>CBE 4432a/b</td>
<td>Energy and Fuels Production Systems</td>
</tr>
<tr>
<td>CBE 4453a/b</td>
<td>Polymer Engineering</td>
</tr>
<tr>
<td>CEE 3362a/b</td>
<td>Drinking Water Quality and Treatment</td>
</tr>
<tr>
<td>CEE 4405a/b</td>
<td>Air Pollution</td>
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</tbody>
</table>

*A student may substitute two 0.5 technical electives from the list provided for GPE 4415.