

# Sample Course Planning Guide

for

## Bachelor of Science in Engineering (BSE)

**41 CU TOTAL**

Chemical and Biomolecular Engineering

<p><b>1. MATH (4 CU)</b></p> <input type="checkbox"/> MATH 104 <input type="checkbox"/> MATH 114 <input type="checkbox"/> MATH 240 <input type="checkbox"/> MATH 241	<p><b>3. ENGINEERING (14 CU)</b></p> <input type="checkbox"/> CBE 160 <input type="checkbox"/> CBE 230 <input type="checkbox"/> CBE 231 <input type="checkbox"/> CBE 350 <input type="checkbox"/> CBE 351 <input type="checkbox"/> CBE 353 <input type="checkbox"/> CBE 371 <input type="checkbox"/> CBE 400 <input type="checkbox"/> CBE 410 <input type="checkbox"/> CBE 451 <input type="checkbox"/> CBE 459 <input type="checkbox"/> CBE 460 <input type="checkbox"/> CBE _____ <sup>1e</sup> <input type="checkbox"/> Non CBE _____ <sup>2e</sup>	<p><b>4. ENG COMP ELEC (1 CU)*</b></p> <input type="checkbox"/> _____ <p style="text-align: center;"><b>Choose One:</b>  <b>EAS 105</b>  <b>CIS 110</b>  <b>CIS 120</b></p> <div style="border: 1px solid black; padding: 2px; font-size: small;"> <p>* Students who elect the Phys 150/151 substitution are exempt from this</p> </div> <p><b>5. TECH ELEC (4 CU)</b></p> <input type="checkbox"/> _____ <sup>1b</sup> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <p style="text-align: center;"><b>Choose One:</b>  <b>CBE 480<sup>1t</sup></b>  <b>CHEM 223</b>  <b>CHEM 245</b></p> <div style="border: 1px solid black; padding: 2px; font-size: small;"> <p><b>NOTE:</b>  <sup>1b.</sup> For additional options please see bottom of the page  <sup>1t.</sup> Requires prerequisite - CBE 479</p> </div>	<p><b>6. SSH (7 CU)</b></p> <input type="checkbox"/> SS _____ <input type="checkbox"/> SS _____ <input type="checkbox"/> H _____ <input type="checkbox"/> H _____ <input type="checkbox"/> SS or H _____ <input type="checkbox"/> SS or H _____ <input type="checkbox"/> SS or H _____
<p><b>2. NATURAL SCIENCE (8 CU)</b></p> <input type="checkbox"/> CHEM 101 <sup>1ns</sup> <input type="checkbox"/> CHEM 053 <input type="checkbox"/> CHEM 102 <input type="checkbox"/> CHEM 054 <input type="checkbox"/> PHYS 140 <sup>2ns</sup> <input type="checkbox"/> PHYS 141 <sup>2ns</sup> <input type="checkbox"/> CHEM 221 <input type="checkbox"/> CHEM 241 <input type="checkbox"/> CHEM 242 or CHEM 251	<div style="border: 1px solid black; padding: 2px; font-size: small;"> <p><b>NOTE:</b>  <sup>1ns.</sup> CHEM 001 also acceptable.</p> <p><sup>2ns.</sup> It remains the student's option to substitute Phys 150/151 in place of Phys 140/141, thus increasing the course units in Natural Science from 8 CUs to 9 CUs. Exercising this optional substitution of 150/151, eliminates the need for the courses in category 4. See * under category 4.</p> </div>	<div style="border: 1px solid black; padding: 2px; font-size: small;"> <p><b>NOTES:</b>  <sup>1e.</sup> Must be upper level CBE course, 300 or higher, or ENM 510, 511  <sup>2e.</sup> At least one course in engineering must be taken in an engineering department other than Chemical and Biomolecular Engineering, e.g., a course from MEAM or MSE or ESE etc.</p> </div>	<div style="border: 1px solid black; padding: 2px; font-size: small;"> <p>Depth (from SSH) _____</p> <p>Writing Req (from SSH) _____</p> </div> <p><b>7. FREE ELEC (3 CU)</b></p> <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____

### SEMESTER PLANNING

TERM	MATH & NAT SCI	ENGINEERING	COMP ELEC & TECH ELEC	SSH & FREE ELEC'S
Fall Yr _____	Math 104 Chem 101 & 053 Phys 140			SSH elective (Writing Rqt.) SSH elective
Spring Yr _____	Math 114 Chem 102 & 054 Phys 141	CBE 160		Free elective
Summer Yr _____				
Fall Yr _____	Math 240 Chem 241	CBE 230	tech elective <sup>1b</sup>	Free elective
Spring Yr _____	Math 241 Chem 242 or 251	CBE 231	EAS 105 or CIS 110 or CIS 120	H elective
Summer Yr _____				
Fall Yr _____	Chem 221	CBE 350 CBE 353 Non-CBE elective		SSH elective
Spring Yr _____		CBE 351 CBE 371	CBE 480 <sup>1t</sup> or Chem 223 or Chem 245	H elective Free elective
Summer Yr _____				
Fall Yr _____		CBE 400 CBE 410 CBE 451	tech elective	SS elective
Spring Yr _____		CBE 460 CBE 459 CBE elective	tech elective	SS elective

<sup>1b.</sup> The student may elect to defer the technical elective in favor of the Engineering Computer Elective or to begin the Physics sequence. For Physics please list in first column.