

# Sample Course Planning Guide

for

Bachelor of Science in Engineering (BSE) entered 2013 or later

41 CU TOTAL

COURSE SELECTION			
MATH (4 CU)	ENGINEERING (15 CU)	TECH ELECTIVES (4 CU)	SSH (7 CU)
<input type="checkbox"/> MATH 104 <input type="checkbox"/> MATH 114 <input type="checkbox"/> MATH 240 <input type="checkbox"/> MATH 241	<input type="checkbox"/> ENGR 105 <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>c</sup> <input type="checkbox"/> CBE _____ <sup>c</sup>	<input type="checkbox"/> ENGINEERING <sup>d</sup> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> CBE 480 <sup>e</sup> or CHEM 223 or CHEM 245	<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 or TBS _____ <input type="checkbox"/> SS or H or TBS _____
<b>NATURAL SCIENCE (8-9 CU)</b>		<b>NOTES:</b>	
<input type="checkbox"/> CHEM 101 <sup>a</sup> <input type="checkbox"/> CHEM 053 <input type="checkbox"/> CHEM 102 <input type="checkbox"/> CHEM 054 <input type="checkbox"/> PHYS 140 or PHYS 150 <sup>b</sup> <input type="checkbox"/> PHYS 141 or PHYS 151 <sup>b</sup> <input type="checkbox"/> CHEM 221 or MSE 221 <input type="checkbox"/> CHEM 241 <input type="checkbox"/> CHEM 242 or CHEM 251		<input type="checkbox"/> <b>Depth</b> (from SSH) <input type="checkbox"/> <b>Writing req't</b> (from SSH) <input type="checkbox"/> <b>Ethics req't/ EAS 203</b>	
		<input type="checkbox"/> <b>150/151</b> exempts student 1 TECH ELEC <input type="checkbox"/> <b>CBE 300+</b> <input type="checkbox"/> <b>CBE 150</b> Recommended <input type="checkbox"/> <b>CBE 479</b> is pre-requisite	<b>FREE ELECTIVES (3 CU)</b>
			<input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____

SEMESTER PLANNING				
TERM	MATH & NAT SCI	ENGINEERING	COMP & TECH ELEC'S	SSH & FREE ELEC'S
Fall ____	MATH 104 CHEM 101 & 053 PHYS 140		tech elective (recommend CBE 150)	Free Elective or SSH
Spring ____	MATH 114 CHEM 102 & 054 PHYS 141	CBE 160		Writing requirement (SSH) or EAS 203 (Ethics requirement)
Summer ____				
Fall ____	MATH 240 CHEM 241	CBE 230		SSH elective Free elective
Spring ____	MATH 241 CHEM 242 or 251	CBE 231	ENGR 105	SSH elective
Summer ____				
Fall ____	CHEM 221 or MSE 221	CBE 350 CBE 353 CBE elective		SSH elective
Spring ____		CBE 351 CBE 371	CBE 480 or CHEM 223 or CHEM 245	SSH elective Free elective
Summer ____				
Fall ____		CBE 400 CBE 410 CBE 451	tech elective	SSH elective
Spring ____		CBE 460 CBE 459 CBE elective	tech elective	SSH elective
Summer ____				

CORE COURSE TITLES			
CBE 150 - Fund. of Biotechnology	CBE 350 - Fluid Mechanics	CBE 400 - Intro to Product Design	CBE 460 - Chem. Proc. Ctrl.
CBE 160 - Intro to Chemical Eng.	CBE 351 - Heat & Mass Trans.	CBE 410 - Chem. Eng. Lab	CBE 479 - Biot. & Biochem. Eng
CBE 230 - Mat. & Energy Balances	CBE 353 - Adv. Chem. Eng. Sci	CBE 451 - Chem. React. Design	CBE 480 - Lab in Biot. & Gen. E
CBE 231 - Thermod. of Fluids	CBE 371 - Separ. Processes	CBE 459 - Process Sys. Design Prjcs.	ENM 510/511 - Eng. Math I & II