

Course Planning Guide

for

Bachelor of Science in Engineering (BSE) entered 2017 or later

41 CU TOTAL

COURSE SELECTION					
MATH (4 CU)		ENGINEERING (15 CU)		TECH ELECTIVES (4 CU)	SSH (7 CU)
<input type="checkbox"/> MATH 1400 <input type="checkbox"/> MATH 1410 <input type="checkbox"/> MATH 2400 <input type="checkbox"/> MATH 2410		<input type="checkbox"/> ENGR 1050 <input type="checkbox"/> CBE 1600 <input type="checkbox"/> CBE 2300 <input type="checkbox"/> CBE 2310 <input type="checkbox"/> CBE 3500 <input type="checkbox"/> CBE 3510 <input type="checkbox"/> CBE 3530 <input type="checkbox"/> CBE 3600 <input type="checkbox"/> CBE 3710 <input type="checkbox"/> CBE 4000 <input type="checkbox"/> CBE 4100 <input type="checkbox"/> CBE 4510 <input type="checkbox"/> CBE 4590 <input type="checkbox"/> CBE _____ ^c <input type="checkbox"/> CBE _____ ^c		<input type="checkbox"/> ENGINEERING _____ <input type="checkbox"/> _____ <input type="checkbox"/> _____ <input type="checkbox"/> CBE 4800 ^e or CHEM 2230 or CHEM 2425	<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 _____
NATURAL SCIENCE (8-9 CU)				NOTES:	<input type="checkbox"/> Depth (from SSH)
<input type="checkbox"/> CHEM 1012 ^a <input type="checkbox"/> CHEM 1101 <input type="checkbox"/> CHEM 1022 <input type="checkbox"/> CHEM 1102 <input type="checkbox"/> PHYS 0140 or PHYS 0150 ^b <input type="checkbox"/> PHYS 0141 or PHYS 0151 ^b <input type="checkbox"/> CHEM 2210 or MSE 2210 <input type="checkbox"/> CHEM 2410 <input type="checkbox"/> CHEM 2420 or CHEM 2510 or CHEM 2425				^a Please see * CHEM on reverse	<input type="checkbox"/> Writing req't (from SSH)
				^b 0150/0151 exempts student 1 TECH ELEC	<input type="checkbox"/> Ethics req't/ EAS 2030
				^c CBE 3000+	FREE ELECTIVES (3 CU)
				^e CBE 4790 is pre-requisite	<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 1400 CHEM 1012 & 1101 PHYS 0140		Tech Elective	Free Elective or SSH	
Spring ____	MATH 1410 CHEM 1022 & 1102 PHYS 0141	CBE 1600		Writing requirement (SSH) or EAS 2030 (Ethics requirement)	
Summer ____					
Fall ____	MATH 2400 CHEM 2410	CBE 2300		SSH elective Free elective	
Spring ____	MATH 2410 CHEM 2420 or 2510 or CHEM 2425	CBE 2310	ENGR 1050	SSH elective	
Summer ____					
Fall ____	CHEM 2210 or MSE 2210	CBE 3500 CBE 3530 CBE elective		SSH elective	
Spring ____		CBE 3510 CBE 3710	CBE 4800 or CHEM 2230 or CHEM 2425	SSH elective Free elective	
Summer ____					
Fall ____		CBE 4000 CBE 4100 CBE 4510	tech elective	SSH elective	
Spring ____		CBE 3600 CBE 4590 CBE elective	tech elective	SSH elective	
Summer ____					
CORE COURSE TITLES					
CBE 1500 - Fund. of Biotechnology CBE 1600 - Intro to Chemical Eng. CBE 2300 - Mat. & Energy Balances CBE 2310 - Thermod. of Fluids	CBE 3500 - Fluid Mechanics CBE 3510 - Heat & Mass Trans. CBE 3530 - Adv. Chem. Eng. Sci CBE 3600 - Chem. Proc. Ctrl.	CBE 3710 - Separ. Processes CBE 4000 - Intro to Product Design CBE 4100 - Chem. Eng. Lab CBE 4510 - Chem. Reac. Design	CBE 4590 - Process Sys. Design Prjcs. CBE 4790 - Biot. & Biochem. Eng CBE 4800 - Lab in Biot. & Gen. E		