

ACADEMIC PLAN OF STUDY FOR BSCE

FRESHMAN

Course	Prerequisites	Hours	Course	Prerequisites	Hours
MATH 1241: Calculus I	MATH 1103 or math placement	3	MATH 1242: Calculus II	MATH 1241	3
Science Elective		3	PHYS 2101: Physics I	MATH 1241	3
ENGR 1201: Introduction to Engineering I	Pre/Co-req: MATH 1241	2	PHYS 2101L: Physics I Laboratory	Pre/Coreq: PHYS 2101	1
LBST 1100 Series		3	WRDS 1103: Writing/Inquiry		3
Social Science Elective		3	ENGR 1202: Introduction to Engineering II	ENGR 1201 with "C" or better	2
		14	LBST 2100 or 2200 Series		3
					15

SOPHOMORE

Course	Prerequisites	Hours	Course	Prerequisites	Hours
MATH 2241: Calculus III	MATH 1242	3	MATH 2171: Differential Equations	MATH 1242	3
CHEM 1251: Chemistry I	CHEM 1200 or MATH 1100 (or above)	3	CEGR 2103: Surveying and Technical Drawing	ENGR 1202	3
CHEM 1251L: Chemistry I Laboratory	Pre/Coreq: CHEM 1251	1	CEGR 2154: Design Project Lab (0)	CEGR 2102	2
CEGR 2102: Engineering Economic Analysis	ENGR 1201	3	PHYS 2102: Physics II or CHEM 1252 Chemistry II	MATH 1242, PHYS 2101 CHEM 1251	3
MEGR 2141: Eng Mechanics I (Statics)	PHYS 2101, MATH 1242	3	PHYS 2102L: Physics II Lab or CHEM 1252L: Chem II Lab	Pre/Coreq: PHYS 2102 or Pre/Coreq: CHEM 1252	1
LBST 2301		3	MEGR 2144: Introduction to Solid Mechanics	MEGR 2141	3
		16	CEGR 3255: Structural Materials I Laboratory (W)	Prereq: MEGR 2141 Pre/coreq: MEGR 2144	2
					17

JUNIOR

Course	Prerequisites	Hours	Course	Prerequisites	Hours
CEGR 3143: Hydraulics and Hydrology	MATH 2171, MEGR 2141	3	CEGR 3161: Transportation Engineering I	MATH 2241, CEGR 2102, CEGR 2103, MEGR 2141	3
CEGR 3141: Introduction to Environmental Engineering	MATH 2171, CHEM 1251, CHEM 1251L, MEGR 2141	3	CEGR 3153: Transportation Laboratory (W)	Pre/Coreq: CEGR 3161	2
CEGR 3155: Environmental Laboratory (W)	Pre/Coreq: CEGR 3141	2	CEGR 2161 or MEGR 3111 or MEGR 3121	CEGR 2161: PHYS 2102 MEGR 3111: MATH 2171, PHYS 2101 MEGR 3121: MEGR 2141, MATH 1242	3
CEGR 3278: Geotechnical Engineering	MATH 2171, MEGR 2144	3	CEGR 3111: Construction Engineering	CEGR 3122, CEGR 3278, CEGR 3255	3
CEGR 3258: Geotechnical Laboratory (W)	Pre/Coreq: CEGR 3278	2	CEGR Design Elective	Check Course Catalog for prerequisites	3
CEGR 3122: Structural Analysis	MATH 2171, MEGR 2144	3			14
		16			

SENIOR

Course	Prerequisites	Hours	Course	Prerequisites	Hours
STAT 3128: Probability and Statistics for Engineers	MATH 2241	3	CEGR 3201: Systems and Design	Senior Standing, CEE Major Coreq: CEGR 3111 Prereqs: CEGR 2154, 3122, 3141, 3143, 3161, 3278, Design Elective	3
CEGR 3221: Structural Steel Design I or CEGR 3225: Reinforced Concrete Design I	CEGR 3122, CEGR 3255	3	CEGR Elective	Check Course Catalog for prerequisites	3
CEGR/Technical Elective	Check Course Catalog for prerequisites	3	CEGR Elective	Check Course Catalog for prerequisites	3
CEGR Design Elective	Check Course Catalog for prerequisites	3	CEGR/Technical Elective	Check Course Catalog for prerequisites	3
ENGR 3295: Professional Development	Senior Standing, Dept. Approval *	1	LBST 2100 or 2200 Series		3
*All CEE students taking ENGR 3295 are required to complete the CEE FE Exam Review as part of this course.		13			15
Course in Red and Courses Shaded in Yellow Require a 'C' or Better				Total Hours = 120	