



Freshman Year

Freshman—First Semester (Fall)

_____	UNIV	Institutional Core Option	3
_____	ENGL 1301	Grammar & Composition I	3
_____	MATH 2413	Calculus I	4
_____	CHEM 1311	General Chemistry I	3
_____	CHEM 1111	General Chemistry I Laboratory	1
_____	ENGR 1200	Engineering Methods (with lab)	2
		Semester Credit Hours	16

Freshman—Second Semester (Spring)

_____	TECH 1303	Engineering Graphics	3
_____	ENGL 1302	Grammar & Composition II	3
_____	MATH 2414	Calculus II	4
_____	PHYS 2325	University Physics I	3
_____	PHYS 2125	University Physics I Laboratory	1
_____	()	Visual & Performing Arts	3
		Semester Credit Hours	17

Sophomore Year

Sophomore—First Semester (Fall)

_____	CENG 2336	Geomatics	3
_____	POLS 2305	Introduction to American Government	3
_____	ENGR 2301	Engineering Mechanics – Statics	3
_____	MATH 3404	Multivariate Calculus	4
_____	PHYS 2326	University Physics II	3
_____	PHYS 2126	University Physics II Laboratory	1
		Semester Credit Hours	17

Sophomore—Second Semester (Spring)

_____	CENG 2353	Civil Engineering Measurement	3
_____	MENG 3306	Mechanics of Materials	3
_____	MATH 3305	Differential Equations	3
_____	ENGR 2302	Engineering Mechanics –	3
_____	ECON 2302	Microeconomics	3
_____	PHIL 2306	Introduction to Ethics	3
		Semester Credit Hours	18

Junior Year

Junior—First Semester (Fall)

_____	CENG 3434	Civil Engr. Materials, Codes & Specs	4
_____	MENG 3310	Fluid Mechanics	3
_____	ENGR 3301	Probability & Statistics for Engineers	3
_____	CENG 4339	CE Construction Management	3
_____	()	Additional Science Elective	3
		Semester Credit Hours	16

Junior—Second Semester (Spring)

_____	CENG 3361	Applied Engineering Hydrology	3
_____	CENG 3351	Transportation Engr. Systems	3
_____	CENG 3371	Intro to Environmental Engineering	3
_____	CENG 3336	Soil Mechanics	3
_____	CENG 3325	Structural Analysis	3
		Semester Credit Hours	15

Senior Year

Senior—First Semester (Fall)

_____	CENG 4351	Transp. & Regional Planning (w Lab)	3
_____	CENG 4317	Structural Steel Design	3
_____	CENG 4371	Environmental Engineering Design	3
_____	CENG 4115	Senior Design I	1
_____	HIST 1301	United States History I	3
_____	ENGR 4109	Senior Seminar	1
		Semester Credit Hours	14

Senior—Second Semester (Spring)

_____	CENG 4341	Leadership, Business, Pub Pol,	3
_____	CENG 4315	Senior Design II	3
_____	HIST 1302	United States History II	3
_____	POLS 2306	Intro. Texas Politics	3
_____	()	World/European Literature	3
		Semester Credit Hours	15

Total Program Credit Hours: 128



Construction Engineering

Course	Hrs
___ ___ CENG 4399 CE Independent Study	3

Structural Engineering

Course	Hrs
___ ___ CENG 4311 Reinforced Concrete Design	3
___ ___ CENG 4314 Adv. Structural Analysis	3
___ ___ CENG 4318 Design Timber Structures	3
___ ___ CENG 4322 Structural Masonry Design	3
___ ___ CENG 4328 Structural Fire Behavior	3

Geotechnical Engineering

Course	Hrs
___ ___ CENG 4381 Foundation Design	3

Transportation Engineering

Course	Hrs
___ ___ CENG 4354 Urban Transportation Planning	3
___ ___ CENG 4355 Transportation Systems Management and Operations	2

Hydrology and Environmental Engineering

Course	Hrs
___ ___ CENG 4330 Water Resources Planning and Management	3

Additional Science Elective Options

Course	Hrs
___ ___ GEOL 3310 Physical Geology and Astronomy	3
___ ___ GEOL 3314 Oceanography and Meteorology	3
___ ___ BIOL 1306/1106 General Biology I	4
___ ___ BIOL 2320/2121 Introduction to Microbiology	4

The faculty strongly recommends that all students complete an independent study as their elective. The areas for independent study are: research, competition, or community service.

Students are advised to take two courses in five sub-disciplines: Construction Management, Environmental, Hydrology, Structural, and Transportation as well as one course in Surveying and Geotechnical Engineering to gain the breath our constituencies are asking for in new Engineers-In-Training.

However, students may gain one additional elective by completing two courses in three of the four CE sub-disciplines: Environmental (CENG 3371 and 4371), Hydrology (MENG 3310 and CENG 3361), Structural (CENG 3325 and 4317), and Transportation (CENG 3351 and 4351) and one in the other. All students will take two courses in construction management (CENG 3434 and CENG 4339).