

# Bachelor of Science in Engineering Technology – Structural Analysis/Design Option in Engineering Technology Major (Four Year Plan)

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
<b>ENG 1301 (Composition I)</b> <sup>#</sup> P: One of the following: (1) TSI ESSAY score of 4 and WRITING score of 340, (2) TSI ESSAY score of 5 and ABE WRITING diagnostic level 4, (3) TSI WRITING complete, OR (4) TSI WRITING exempt	3	<b>ENG 1302 (Composition II)</b> P: A grade of C or better in ENG 1301 or placement by examination	3
*PHYS 1307/1107 (General Physics		*ENGR 1333 (Programming for	
l w/ Lab) <sup>&amp;</sup>	4	Engineers)	3
P: Credit or enrollment in MATH 1302 or equivalent		P: Credit or enrollment in MATH 2401	
UHD 1303 (Freshman Seminar - Engineering) Transfer students see advisor for options	3	*MATH 2401 (Calculus I) <sup>#&amp;</sup> P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD	4
ENGR 1329/1129(Concrete		Approved Language, Philosophy,	
Technology with Lab)	4	and Culture course (p. 60) P: Refer to catalog	3
		Approved Oral Communication	3
		<b>course</b> (p. 60) P: Refer to catalog	5
Total Semester Hours	14	Total Semester Hours	16

# YEAR 1

#### YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
*ENGR 2308 (Statics) P: MATH 2401 and co-requisite PHYS 1307	3	ENGR 2304 (Computer-Aided Drafting and Design I)	3
*CHEM 1307/1107 (General Chemistry I w/ Lab) & P: Credit or enrollment in MATH 1301, ENG 1301, and 1 year of high school chemistry OR CHEM 1305/1105	4 (Mechanics of Materials with Lab) P: ENGR 2309/2109		4
ENGR 2411 (Modern Methods of Engineering Analysis) P: ENGR 1333	4	Approved Am. Hist. course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Approved Am. Hist. course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3	POLS 2306 (Texas Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
		Approved LL SAD elective Refer to catalog for list of options	3
Total Semester Hours	14	Total Semester Hours	16

Updated: April 5, 2022

Department of Computer Science and Engineering Technology The current catalog will have final authority over all degree requirements Students should meet with their academic advisor to formulate their own plan YEAR 3

Semester 5		Semester 6	
Course Number	Credit Hours	Course Number Credit	
ENGR 2306/2106 (Surveying		*ENGR 3302 (Engineering	
w/lab)	4	Economics)	3
P: C or better in ENGR 2308		P: ENGR 1333 and Junior standing	
*ENGR 3311 (Structural Analysis I) P: ENGR 2309/2109	3	*ENGR 3322 (Structural Analysis II) P: ENGR 3311 and ENGR 2411	3
*ENGR 3312 (Reinforced Concrete		*ENGR 4321 (Structural Steel	
Design)	3	Design)	3
P: ENGR 2309/2109		P: Credit or enrollment in ENGR 3311	
*ENGR 3323/3123 (Soil		*ENGR 4322 (Foundation Design)	
Mechanics w/ Lab)	4	P: ENGR 3323	3
P: ENGR 2308			
		ENGR 3332 (Engineering	
		Communication and Ethics)	3
		P: C or better ENG 1302 and junior standing	
Total Semester Hours	14	Total Semester Hours	15

# YEAR 3 – cont'd

Summer			
Course Number		Credit Hours	
ENGR 3344 (Traffic and Transportation Engineering)			
P: MATH 2401, PHYS 1307		3	
	<b>Total Semester Hours</b>	3	

#### YEAR 4

Semester 7		Semester 8	
Course Number	Credit Hours	Course Number	Credit Hours
ENGR 3308 (Fluid Mechanics) P: MATH 2401, PHYS 1307 and ENGR 2411	3	ENGR 4320 (Prestressed Concrete) P: ENGR 3312	3
ENGR 4333 (Construction Management) P: ENGR 2306	3	POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
ENGR 4135 (Senior Capstone Design I) P: ENGR 3311 and ENGR 3312	1	ENGR 4326 (Dynamics of Structure) P: ENGR 3311 co-requisite ENGR 3322 or ENGR 4321	3
Approved UL SAD elective Refer to catalog for a list of options	3	ENGR 4335 (Senior Capstone Design II) P: ENGR 4135	3
Approved Creative Arts course (p. 60) Total Semester Hours	3 <b>13</b>	Approved Social and Behavioral Sciences course (p. 60) Total Semester Hours	3 <b>15</b>

### Total Credit Hours Required 120

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\* Critical course required to stay on track within major and take subsequent courses

# Students are expected to place into ENG 1301 and MATH 2401 via CLEP or Bypass exams – placement tests determine which english or math course students should start with and additional courses may be necessary

& Satisfies both common core and major requirement/prerequisite