



Bachelor of Science in Engineering Technology in Structural Analysis & Design (120 hours)

This table shows a sample recommended course sequence for this degree based on the **UHD 2025-26 Undergraduate Catalog**. Students should verify degree requirements and registration plans with an advisor to ensure accuracy. Please note that some degrees and colleges have specific GPA and other requirements. Courses with asterisks (*) indicate Common Core courses.

First Year (Freshman 0-29 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
ENG 1301*	3		ENGL 1301	Composition I	ENG 1302*	3		ENGL 1302	Composition II
PHYS 1307/1107*	4		PHYS 1301/1101	Physics w/ Lab	Language, Philosophy, & Culture *	3			
ENGR 1329/1129 (Concrete Technology /Lab)	4				ENGR 1333 (Programming for Engineers)	3		ENGR 2304	Programming for Engineers
UHD 1303 (Freshman Seminar*)	3				MATH 2401*	4		MATH 2413	Calculus I
					Oral Communication Course*	3			
Total Hours	14				Total Hours	16			

Second Year (Sophomore 30-59 hrs)

Semester 1	Hours	Grade	TCCNS	ACGM	Semester 2	Hours	Grade	TCCNS	ACGM
ENGR 2308 (Statics)	3				ENGR 2304 (CAD 1)	3			
CHEM 1307/1107*	4		CHEM 1311/1111	General Chemistry I w/ Lab	ENGR 2311/2111 (Engineering Mechanics w/ Lab)	4			
ENGR 2411 (Modern Methods of Engr Analysis)	4				POLS 2306*	3		GOVT 2306	Texas Government
American History Course*	3				American History Course*	3			
					Approved LL Elective	3			
Total Hours	14				Total Hours	16			

Third Year (Junior 60-89 hrs)										
Semester 1	Hours	Grade	TCCNS	ACGM		Semester 2	Hours	Grade	TCCNS	ACGM
ENGR 2306/2106 (Surveying with GIS-GPS)	4					ENGR 3302 (Engineering Economics)	3			
ENGRE 3311 (Structural Analysis I)	3					ENGR 3322 (Structural Analysis II)	3			
ENGR 3312 (Reinforced Concrete Design)	3					ENGR 4321 (Structural Steel Design)	3			
ENGR 3323/3123 (Soil Mechanics w/ Lab)	4					ENGR 4322 (Foundation Design)	3			
Social & Behavioral Science*	3					ENGR 3332 (Engineering Communication & Ethics)	3			
Total Hours	17					Total Hours	15			
Summer										
Semester 1	Hours	Grade	TCCNS	ACGM		Semester 2	Hours	Grade	TCCNS	ACGM
						ENGR 3344 (Traffic & Transportation)	3			
Fourth Year (Senior 90-120 hrs)										
Semester 1	Hours	Grade	TCCNS	ACGM		Semester 2	Hours	Grade	TCCNS	ACGM
ENGR 3308 (Fluid Dynamics)	3					ENGR 4320 (Prestressed Concrete)	3			
ENGR 4333 (Construction Management)	3					POLS 2305 (Federal Government)*	3			
ENGR 4135 (Senior Capstone Project I)	1					ENGR 4326 (Dynamics of Structure)	3			
Creative Arts Course*	3					ENGR 4335 (Senior Capstone Design II)	3			
Approved UL Elective	3									
Total Hours	13					Total Hours	12			