

Bachelor of Science in Engineering Technology – Control and Instrumentation Engineering Technology Major (Four Year Plan)

YEAR 1

Semester 1		Semester 2	
Course Number	Credit Hours	Course Number	Credit Hours
ENG 1301 (Composition I)# 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	ENG 1302 (Composition II) P: A grade of C or better in ENG 1301 or placement by examination	3
*CHEM 1307/1107 (General Chemistry I w/ Lab) & P: Credit or enrollment in MATH 1301, ENG 1301 (or 010 core complete), and 1 year of high school chemistry OR CHEM 1305/1105	4	*ENGR 1333 (Programming for Engineers) P: Credit or enrollment in MATH 2401	3
UHD 1303 (Freshman Seminar – Engineering Technology) Transfer students see advisor for options	3	*PHYS 1307/1107 (General Physics I w/ Lab) & P: Credit or enrollment in MATH 1302 or the equivalent	4
*EET 1411 (Electric Circuits w/ Lab) P: MATH 1302 or enrollment in MATH 1505	4	*MATH 2401 (Calculus I)#& P: C or better in MATH 1404 or MATH 1505 or placement by exam taken at UHD	4
Total Semester Hours	14	Total Semester Hours	14

YEAR 2

Semester 3		Semester 4	
Course Number	Credit Hours	Course Number	Credit Hours
PHYS 1308/1108 (General Physics II w/ Lab) P: PHYS 1307	4	*EET 2322/2122 (Analog Electronics w/ Lab) P: C or better in EET 1411, PHYS 1308/1108	4
* ENGR 2411 or MATH 2402 (Calculus II) P: ENGR 1333 and MATH 2401	4	Approved Oral Communication course (p. 60) P: Refer to catalog	3
POLS 2305 (Federal Government) P: Enrollment in or completion of ENG 1301	3	POLS 2306 (Texas Government) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Approved Social and Behavioral Sciences course (p. 60) P: Refer to catalog	3	Approved CIET LL elective Refer to catalog for list of options	3
		Approved Language, Philosophy, and Culture course (p. 60) P: Refer to catalog	3

Total Semester Hours	14	Total Semester Hours	16
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YEAR 2 – cont'd

Summer	
Course Number	Credit Hours
*EET 2331/2131 (Digital Fundamentals w/ Lab) Summer ONLY P: C or better in ENGR 1333 and EET 1411	4
Approved American History course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Total Semester Hours	7

YEAR 3

Semester 5		Semester 6	
Course Number	Credit Hours	Course Number	Credit Hours
ENGR 3302 (Engineering Economics) P: ENGR 1333 and Junior Standing	3	ENGR 3307 (Applied Thermodynamics and Heat Transfer) P: CHEM 1307, PHYS 1307, ENGR 1400, and one of ENGR 2411 or MATH 2402	3
EET 3334 (Electrical Power Systems) P: Credit or enrollment in EET2322/2122	3	*ENGR 3410 (Process Modeling and Simulation) P: ENGR 1400, CHEM 1307, PHYS 1307; and one of ENGR 2411 or MATH 2402.	4
*EET 3335/3135 (Automation & Control w/ Lab) P: C or better in EET 2322/2122 and EET2331/2131 and MATH 2402 or ENGR 2411	4	ENGR 4306/4106 (Process Control Systems w/lab) P: C or better in ENGR 1333, EET 3335, MATH 2402 or ENGR 2411	4
*EET 3352/3152 (Measurement and Instrumentation w/ Lab) P: C or better in EET 2322/2122	4	ENGR 3308 (Fluid Mechanics) P: MATH 2401, PHYS 1307, and ENGR 2411	3
ENGR 3332 (Engineering Communication and Ethics) P: C or better in ENG 1302 and Junior standing	3	ENGR 4128 (CIET Senior Project Design) P: C or better in ENGR 1400, EET 3435 and EET3352/3152	1
Total Semester Hours	17	Total Semester Hours	15

Summer	
Course Number	Credit Hours
ENGR 4338 (Safety Instrumented Systems) Summer ONLY P: C or better in EET 3435 & EET 3352/3152	3
EET 4336/4136 (Data Communications w/lab) Summer ONLY P: C or better in EET 2331/2131	4
Total Semester Hours	7

* 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

YEAR 4

Semester 7	
Course Number	Credit Hours
ENGR 4302/4102 (Process Design and Operation w/lab) P: Grade of C or better in ENGR 3410	4
ENGR 4328 (Senior Project in CIET) P: ENGR 1400 and a grade of C or better in EET 3352/3152 and EET 3435	3
Approved UL CIET elective Refer to catalog for a list of options	3
Approved American History course (p. 60) P: Enrollment in or completion of ENG 1301 or 010 core complete	3
Approved Creative Arts course (p. 60) P: Refer to catalog	3
Total Semester Hours	16

Total Credit Hours Required 120

* 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