

Bachelor of Science in Engineering Technology in Control & Instrumentation (120 hours)

This is a recommended course sequence based on the UHD 2024-25 Undergraduate Catalog for a degree in Control and Instrumentation which equips students to apply modern instrumentation and control technologies to solve industrial process control problems. Courses with asterisks (*) indicate Common Core courses.

First Year					
Semester 1	Hours	Grade	Semester 2	Hours	Grade
ENG 1301* (Composition I) <i>P: A TSIA2 score meeting college readiness in Reading and Writing, or TSIA2 Reading and Writing complete, or TSIA2 Reading and Writing exempt</i>	3		ENG 1302* (Composition II) <i>P: A grade of C or better in ENG 1301 or placement by examination.</i>	3	
EET 1411 (Electric Circuits w/Lab) <i>P: MATH 1302, or enrollment in MATH 1505</i>	4		MATH 2401* (Calculus I) <i>P: A grade of C or better in MATH 1505 or placement by exam taken at UHD; Refer to catalog</i>	4	
CHEM 1307/1107* (General Chemistry I w/Lab) <i>P: Credit or enrollment in MATH 1301 and CHEM 1107, ENG 1301 (or 010 core complete), and one year of high school chemistry or CHEM 1305/CHEM 1105</i>	4		ENGR 1333 (Programming for Engineers) <i>P: Completion of or enrollment in MATH 2401</i>	3	
UHD First-year Seminar* <i>Refer to catalog for approved options</i>	3		PHYS 1307/1107 (General Physics I w/Lab) <i>P: Credit or enrollment in MATH 1302 or the equivalent, enrollment in PHYS 1107</i>	4	
Total Hours	14		Total Hours	14	
Second Year					
Semester 1	Hours	Grade	Semester 2	Hours	Grade
PHYS 1308/1108 (General Physics II w/Lab) <i>P: PHYS 1307 and credit or enrollment in PHYS 1108</i>	4		EET 2322/2122 (Analog Electronics / Lab) <i>P: PHYS 1308/PHYS 1108, and a "C" or better in EET 1411; credit or enrollment in EET 2122</i>	4	
POLS 2305* (Federal Government) (Summer Option) <i>P: Enrollment in or completion of ENG 1301 or 010 core complete.</i>	3		POLS 2306* (Texas Government) (Summer Option) <i>P: Enrollment in or completion of ENG 1301 or 010 complete.</i>	3	
ENGR 2411 (Modern Methods of Engineering Analysis) or MATH 2402 (Calculus II) <i>P: Refer to catalog</i>	4		Approved Language, Philosophy, and Culture course* (Summer Option) <i>P: Refer to catalog for approved options</i>	3	
Approved Social & Behavioral Sciences Course* (Summer Option) <i>Refer to catalog for approved options</i>	3		Approved CIET Lower Level Elective	3	
			Approved Oral Communication course* <i>P: Refer to catalog for approved options</i>	3	
Total Hours	14		Total Hours	16	
Summer					
EET 2332/2132 (Digital Fundamentals/Lab) <i>P: Grade "C" or better in ENGR 1333 and EET 1411; credit or enrollment in EET 2132</i>	4				

Third Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
EET 3335/3135 (Automation & Control /Lab) <i>P: "C" or better in EET 2122/EET 2322, EET 2332/EET 2132 and MATH 2402 (or ENGR 2411) Credit or enrollment in EET 3135</i>	4		ENGR 4306/4106 (Process Control Systems / Lab) <i>P: C or better in ENGR 1333; EET 3335; MATH 2402 or ENGR 2411 Corequisite(s): ENGR 4106</i>	4	
EET 3352/3152 (Measurement & Instrumentation / Lab) <i>P: "C" or better in EET 2122/EET 2322 and credit or enrollment in EET3152</i>	4		ENGR 3307 (Applied Thermo & Heat Transfer) <i>P: CHEM 1307, PHYS 1307, and grade of C or better in ENGR 1333 and in one of ENGR 2411 or MATH 2402.</i>	3	
ENGR 3332 (Engineering Communication and Ethics) <i>P: ENG 1302 with grade of "C" or better, and Junior standing.</i>	3		ENGR 3410 (Process Modeling and Simulation) <i>P: CHEM 1307, PHYS 1307, and grade of C or better in ENGR 1333 and in one of ENGR 2411 or MATH 2402</i>	4	
EET 3334 (Electrical Power Systems) <i>P: credit or enrollment in EET 2122/EET 2322</i>	3		ENGR 4128 (CIET Senior Project Design) <i>P: C or better in ENGR 1333, EET 3335/EET 3135 and EET 3352/EET 3152</i>	1	
Approved American HistoryCourse* <i>Refer to catalog for approved options</i>	3		ENGR 4338 (Safety Instr. Systems) <i>P: Grade "C" or better in EET 3435 and EET 3352/EET 3152</i>	3	
Total Hours	17		Total Hours	15	

Fourth Year

Semester 1	Hours	Grade	Semester 2	Hours	Grade
ENGR 3308 (Fluid Mechanics) <i>P: MATH 2401, PHYS 1307, and ENGR 2411</i>	3		Approved CIET UL Elective	3	
ENGR 4302/4102 (Process Design & Operation / Lab) <i>P: Grade of C or better in ENGR 3410. Corequisite(s): ENGR 4102</i>	4		ENGR 3302 (Engineering Economics) <i>P: ENGR 1333 and Junior Standing</i>	3	
ENGR 4328 (Senior Project in CIET) <i>P: C or better in ENGR 4128</i>	3		Approved Creative Arts course* (Summer Option) <i>Refer to catalog for approved options</i>	3	
Approved American HistoryCourse* <i>Refer to catalog for approved options</i>	3		EET 4336/4136 (Data Communications / Lab) <i>P: "C" or better in EET 2332/EET; Corequisite(s): EET 4136</i>	4	
Total Hours	13		Total Hours	13	

15 to Finish

Fall: 15 hours • Spring: 15 hours

30 in 3

Fall: 12 hours • Spring: 12 hours • Summer: 6 hours