

## Bachelor of Science in Control & Instrumentation (120 hours)

This table shows a sample recommended course sequence for this degree based on the UHD 2021-22 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	TCCNS	ACGM	SEMESTER 1	HOURS	TCCNS	ACGM
ENG 1301 *	3	ENGL 1301	Composition I	ENG 1302 *	3	ENGL 1302	Composition II
CHEM 1307/1107*	4	CHEM 1311/CHEM 1111	General Chemistry I w/ Lab	PHYS 1307/1107	4	PHYS 1301/PHYS 1101	Physics w/ Lab
Social and Behavioral Science*	3			ENGR 1400	4	ENGR 2304	Programming for Engineers
UHD 1303 Freshmen Seminar*	3			MATH 2401*	4	MATH 2413	Calculus I
<b>Total Hours</b>	<b>13</b>			<b>Total Hours</b>	<b>15</b>		

### Second Year (Sophomore 30-59 hrs)

SEMESTER 1	HOURS	TCCNS	ACGM	SEMESTER 1	HOURS	TCCNS	ACGM
EET 1411)	4	ENGT 1409	AD/DC Circuits for Engineering Technology	EET 2322/2122 (Analog Electronics w/Lab)	4		
PHYS 1308/1108	4	PHYS 1302/PHYS 1102	College Physics II w/ Lab	Oral Communication*	3		
ENGR 2411 (Modern Methods of Engr Analysis) or MATH 2402 (Calculus II)	4	MATH 2414	Calculus II	POLS 2306	3	GOVT 2306	Texas Government
POLS 2305 (Federal Government)	3	GOVT 2305	Federal Government	Language, Philosophy and Culture*	3		
				Approved LL Elective	3		
<b>Total Hours</b>	<b>15</b>			<b>Total Hours</b>	<b>16</b>		

**SUMMER**

EET 2431	4	ENGT 1407	Digital Fundamentals w/ Lab	HIST 1306	3	HIST 1302	United States History II
<b>Third Year (Junior 60-89 hrs)</b>							
<b>SEMESTER 1</b>	<b>HOURS</b>	<b>TCCNS</b>	<b>ACGM</b>	<b>SEMESTER 1</b>	<b>HOURS</b>	<b>TCCNS</b>	<b>ACGM</b>
ENGR 3302 (Engineering Economics)	3			ENGR 3307 (Applied Thermo & Heat Transfer)	3		
EET 3334 (Electrical Power Systems)	3			ENGR 3410 (Process Modeling and Simulation)	4		
EET 3435 (Fund of Automation and Control w/Lab)	4			ENGR 4406 (Process Control Systems)	4		
EET 3352/3152 (Measurement & Instrumentation w/Lab)	4			ENGR 3308 (Fluid Mechanics)	3		
ENGR 3332 (Engineering Communication and Ethics)	3			ENGR4128 (CIET Senior Project Design)	1		
<b>Total Hours</b>	<b>17</b>			<b>Total Hours</b>	<b>15</b>		
<b>SUMMER</b>							
ENGR 4338 (Safety Instr. Systems)	3			EET 4335 (Computer Networking)	3		
<b>Fourth Year (Senior 90-120 hrs)</b>							
<b>SEMESTER 1</b>	<b>HOURS</b>	<b>TCCNS</b>	<b>ACGM</b>	<b>SEMESTER 1</b>	<b>HOURS</b>	<b>TCCNS</b>	<b>ACGM</b>
ENGR 4402 (Process Design and Operation)	4						
ENGR 4328 (Senior Project in Control and Instrumentation)	3						
Approved UL elective	3						
Creative Arts*	3						
HIST 1305	3	HIST 1301	United States History I				
<b>Total</b>	<b>16</b>						