



First Semester (15 Hours) | AAS Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETD 1012 Safety Applications	2		ORIE 1011 College Strategies (AAS Degree Requirement)	1		
	ETDE 1003 Introduction to Instrumentation Technology	3		CS 1013 Computer Literacy & Applications	3		
	ETDE 1283 AC/DC Circuits I Corequisite: MATH 1513	3		MATH 1513 Pre-Calculus [Ⓟ]	3		
				COWBOY UP! New Student Orientation	0		

Second Semester (15 Hours) | AAS Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 1293 AC/DC Circuits II Prerequisites: ETDE 1283 and MATH 1513; Corequisite: MATH 1613	3		HIST 1483 US History to 1865 <u>OR</u> HIST 1493 US History since 1865	3		
	ETDE 1343 Motors & Controls Prerequisite: ETDE 1283; Corequisite: ETDE 1293	3		MATH 1613 Trigonometry Prerequisite: MATH 1513	3		
	ETDE 2253 Hydraulics & Pneumatics Prerequisites: ETDE 1283 and MATH 1513	3					

Third Semester (15 Hours) | AAS Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 1363 Electronic Devices & Standards Prerequisite: ETDE 1293	3		ENGL 1113 Freshman Composition I ^{*Ⓟ} <u>OR</u> ENGL 1033 Technical Writing I [Ⓟ]	3		
	ETDE 2223 Electrical Power Distribution Prerequisite: ETDE 1293; Corequisite: ETDE 1363	3		POLS 1113 US Government	3		
	ETDGD 1143 Introduction to Design/Drafting Corequisite: MATH 1513	3					

Fourth Semester (13 Hours) | AAS Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 1373 Digital Systems & Microcontrollers Prerequisite: ETDE 1363	3		MATH 2144 Calculus I Prerequisite: MATH 1613 or equivalent	4		
	ETDE 2113 Introduction to PLCs Prerequisite: ETDE 1343	3		SPCH 1113 Intro to Speech Communications <u>OR</u> SPCH 2313 Small Group Communications	3		

Fifth Semester (16 Hours) | AAS Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 2133 Instrumentation Prerequisite: ETDE 2113	3		PHYS 1114 General Physics I Prerequisite: MATH 1613	4		
	ETDE 2273 Electronic Control Devices Prerequisites: ETDE 1343 and ETDE 1363	3		Approved Humanities Elective PHIL 1213 Ethics *	3		
	Approved Lower-Division Technical Elective Consult with advisor for an approved list of electives.	3					

FULL = Full Semester Class | 1st = First Half Class | 2nd = Second Half Class

* Recommended

Ⓟ Corequisite strategies course available. See advisor for details.

Completion of AAS in Engineering Technologies - Instrumentation & Automation Requirements

BT in Instrumentation & Automation Engineering Technology Requirements
continued on next page

Sixth Semester (13 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 3143 PLC Applications Prerequisite: EDTE 2113	3		CHEM 1314 General Chemistry I Corequisite: MATH 1513	4		
	ETDE 3223 Industrial Networks Prerequisite: ETDE 2273; Corequisite: ETDE 3143	3					
	ETDE 3313 Heat Transfer & Fluid Mechanics Prerequisites: ETDE 2253, MATH 2144 and PHYS 1114	3					

Seventh Semester (16 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETD 2411 Employment Exploration	1		MATH 2153 Calculus II Prerequisite: MATH 2144	3		
	ETDE 3213 Project Management & Engineering Economics	3		Approved Humanities Elective Consult with advisor for an approved list of electives.	3		
	ETDE 3233 Liquid & Gas Flow Measurement Prerequisites: ETDE 3313 and PHYS 1114	3					
	ETDE 3513 Programming for Instrumentation Prerequisite: ETDE 2133	3					

Eighth Semester (15 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 4133 Process Measurement & Control Prerequisites: ETDE 3223, ETDE 3233, ETDE 3513 and MATH 2714	3		PSYC 1113 Introductory Psychology	3		
	ETDE 4313 Process Management Prerequisites: ETDE 3223 and MATH 2153	3					
	ETDE 4813 Instrumentation Capstone Prerequisites: ETDE 3213, ETDE 3223, ETDE 3513, departmental approval and a 2.5 GPA or higher	3					
	Approved Upper-Division Technical Elective Consult with advisor for an approved list of electives.	3					

Ninth Semester (12 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETDE 4112 Instrumentation Internship Prerequisites: ETD 2411 and a 2.5 GPA or higher	12					

FULL = Full Semester Class | 1st = First Half Class | 2nd = Second Half Class

★ Recommended

⊕ Corequisite strategies course available. See advisor for details.

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