



First Semester (15 Hours) | AAS Degree

		Program Requirements		Hours	✓	General Education Courses		Hours	✓
1 st FULL						ORIE 1011 College Strategies		1	
		ETD 1012 Safety Applications		2		CS 1013 Computer Literacy & Applications		3	
		ETDE 1003 Introduction to Instrumentation Technology		3		MATH 1513 Pre-Calculus [⊕]		3	
		ETDE 1283 AC/DC Circuits I Corequisite: MATH 1513		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 OR HIST 1493 US History since 1865		3	
		ETDE 1343 Motors & Controls Prerequisite: ETDE 1283; Corequisite: ETDE 1293		3		MATH 1613 Trigonometry		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 ^{★⊕} OR ENGL 1033 Technical Writing I [⊕]		3	
		ETDE 2223 Electrical Power Distribution Prerequisite: ETDE 1293; Corequisite: ETDE 1363		3		POLS 1113 US Government		3	
		ETDG 1143 Introduction to Design/Drafting Corequisite: MATH 1513		3					

Fourth Semester (15 Hours) | AAS Degree

		Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL		ETDE 1373 Digital Systems & Microcontrollers Prerequisite: ETDE 1363		3		MATH 2713 Elementary Calculus Prerequisite: MATH 1513 or equivalent		3	
		ETDE 2113 Introduction to PLCs Prerequisite: ETDE 1343		3		SPCH 1113 Intro to Speech Communications OR SPCH 2313 Small Group Communications		3	
		ETDE 2273 Electronic Control Devices Prerequisites: ETDE 1343 and ETDE 1363		3					

Fifth Semester (13 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	
		Approved Lower-Division Technical Elective Consult with advisor for an approved list of electives.		3		Approved Humanities Elective PHIL 1213 Ethics [★]		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 Technology Option Degree Requirements

~ BT in Instrumentation Engineering Technology requirements continued on following 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 2713 and PHYS 1114	3					

Seventh Semester (13 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	ETD 2411 Employment Exploration	1		Approved Humanities Elective Consult with advisor for an approved list of electives.		3	
	ETDE 3213 Project Management & Engineering Economics	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 2713	3		PSYC 1113 Introductory Psychology		3	
	ETDE 4313 Process Management Prerequisites: ETDE 3223 and MATH 2713	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					

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