



**First Semester (15 Hours) | AAS Degree**

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

**Second Semester (15 Hours) | AAS Degree**

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

**Third Semester (15 Hours) | AAS Degree**

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

**Fourth Semester (16 Hours) | AAS Degree**

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	<b>ETDE 1373</b> Digital Systems & Microcontrollers Prerequisite: ETDE 1363	3		<b>MATH 2714</b> Elementary Calculus Prerequisite: MATH 1613 or equivalent	4		
	<b>ETDE 2113</b> Introduction to PLCs Prerequisite: ETDE 1343	3		<b>SPCH 1113</b> Intro to Speech Communications <u>OR</u> <b>SPCH 2313</b> Small Group Communications	3		
	<b>ETDE 2273</b> Electronic Control Devices Prerequisites: ETDE 1343 and ETDE 1363	3					

**Fifth Semester (13 Hours) | AAS Degree**

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	<b>ETDE 2133</b> Instrumentation Prerequisite: ETDE 2113	3		<b>PHYS 1114</b> General Physics I Prerequisite: MATH 1613	4		
	<b>Approved Lower-Division Technical Elective</b> Consult with advisor for an approved list of electives.	3		<b>Approved Humanities Elective</b> <b>PHIL 1213</b> Ethics <sup>*</sup>	3		

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

<sup>\*</sup> Recommended

<sup>Ⓟ</sup> 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 next page

## Sixth Semester (13 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	<b>ETDE 3143</b> PLC Applications Prerequisite: EDTE 2113	3		<b>CHEM 1314</b> General Chemistry I Corequisite: MATH 1513	4		
	<b>ETDE 3223</b> Industrial Networks Prerequisite: ETDE 2273; Corequisite: ETDE 3143	3					
	<b>ETDE 3313</b> Heat Transfer & Fluid Mechanics Prerequisites: ETDE 2253, MATH 2714 and PHYS 1114	3					

## Seventh Semester (13 Hours) | BT Degree

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

## Eighth Semester (15 Hours) | BT Degree

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

## Ninth Semester (12 Hours) | BT Degree

Program Requirements		Hours	✓	General Education Courses		Hours	✓
FULL	<b>ETDE 4112</b> 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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