



**CATALOG YEAR: 2023-2024**  
**ASSOCIATE OF APPLIED SCIENCE**  
**INSTRUMENTATION & ELECTRICAL TECHNOLOGY**

All courses must be passed with a “C” or better. Developmental courses will not be applied to the degree. Students are encouraged to utilize Degree Works (accessible via LoLA) to track their academic progress.

**FIRST SEMESTER**

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
College Algebra, Applied Algebra, or Finite Math (only required for students seeking the TD & AAS)	MATH	1100, 1203, 1500	3
Introduction to Computer Technology	CSCI	1010	3
Core Industry Safety	CORE	1003	3
Electrical Systems & Equipment	INST	1011	2
Fund of Electricity & Electronics	ETRN	1112	4
<b>SEMESTER CREDIT HOURS</b>			<b>TD 15    AAS 15</b>

**SECOND SEMESTER**

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
Fund of Semiconductors, Circuits & Transistors	ETRN	1212	4
<b>Students who complete all courses above are eligible to receive the CTS Instrumentation Helper (16 credit hours)</b>			
English Composition (only required for students seeking the AAS)	ENGL	1010	3
Introduction to Speech (only required for students seeking the AAS)	SPCH	1010 or 1200	3
Digital Circuits	ETRN	1420	3
Principles of Process Controls/IIoT	INST	1435	3
<b>SEMESTER CREDIT HOURS</b>			<b>TD 10    AAS 16</b>

**THIRD SEMESTER**

COURSE NAME	COURSE PREFIX	COURSE NUMBER	CREDIT HOURS
Physical Science (only required for students seeking the AAS)	PHSC	1010	3
Physical Science Lab (only required for students seeking the AAS)	PHSC	1010L	1
Pressure & Level Measurement	INST	1330	3
Flow & Final Control Elements	INST	1425	3
Temperature & Analytical Measurement	INST	2732	3
Motor Controls, VFD & Vibration Analysis	INST	2745	3
<b>SEMESTER CREDIT HOURS</b>			<b>TD 12    AAS 16</b>



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**FOURTH SEMESTER**

<b>COURSE NAME</b>	<b>COURSE PREFIX</b>	<b>COURSE NUMBER</b>	<b>CREDIT HOURS</b>	
Choose 3 hours from any Social Science course (only required for students seeking the AAS)	ECON, POLI, PSYC, SOCL	****	3	
Programmable Logic Controllers	INST	2741	4	
Industrial Electrical Control Systems	INST	2755	4	
Industry Troubleshooting Capstone (only required for students seeks the TD & AAS)	INST	2000	3	
<b>SEMESTER CREDIT HOURS</b>			<b>TD 11</b>	<b>AAS 14</b>
<b>CTS- Instrumentation Helper = 16 credit hours</b>				
<b>TD- Industrial Instrumentation Technology = 48 credit hours</b>				
<b>AAS- Instrumentation &amp; Electrical Technology = 61 credit hours</b>				