



# INSTRUMENTATION AND ELECTRICAL TECHNOLOGY – CAREER PATHWAY MAP

✓	RECOMMENDED COURSE SEQUENCE	SEMESTERS OFFERED	CREDIT HOURS
<input type="checkbox"/>	1. ELPT 1311 Basic Electrical Theory	F, Sp	3
<input type="checkbox"/>	2. ENTC 1347 Safety and Ergonomics	F, Sp	3
<input type="checkbox"/>	3. INTC 1305 Introduction to Instrumentation	F	3
<input type="checkbox"/>	4. <b>INTC 1307 Instrumentation Test Equipment</b>	F	3
<input type="checkbox"/>	5. <b>INTC 1353 Analog Controls II</b>	F	3
			<i>15 hours</i>
<input type="checkbox"/>	6. DFTG 1325 Blueprint Reading and Sketching	F, Sp, Su	3
<input type="checkbox"/>	7. <b>ELPT 1457 Industrial Wiring</b>	Sp	4
<input type="checkbox"/>	8. <b>INCR 1302 Physics of Instrumentation</b>	Sp	3
<input type="checkbox"/>	9. ELPT 1225 National Electric Code I	Sp	2
<input type="checkbox"/>	10. <b>INTC 2305 Instrument Hardware Installation II</b>	Sp	3
	*** INSTRUMENTATION AND ELECTRICAL TECHNOLOGY CERTIFICATE EARNED ***		<i>30 hours</i>
<input type="checkbox"/>	11. INTC 2388 Internship	Su	3
			<i>33 hours</i>
<input type="checkbox"/>	12. <i>PHIL 2306 Introduction to Ethics *</i>	F, Sp, Su	3
<input type="checkbox"/>	13. <i>SOCI 1301 Introductory Sociology *</i>	F, Sp, Su	3
<input type="checkbox"/>	14. <b>ELPT 2319 Programmable Logic Controllers I</b>	F	3
<input type="checkbox"/>	15. <b>INTC 1357 AC/DC Motor Control</b>	F	3
<input type="checkbox"/>	16. <i>MATH 1332 Contemporary Mathematics *</i>	F, Sp, Su	3
			<i>48 hours</i>
<input type="checkbox"/>	17. <i>ENGL 1301 Composition I</i>	F, Sp, Su	3
<input type="checkbox"/>	18. <b>ELPT 2355 Programmable Logic Controllers II</b>	Sp	3
<input type="checkbox"/>	19. <b>INTC 2330 Instrumentation Troubleshooting</b>	Sp	3
<input type="checkbox"/>	20. <i>SPCH 1318 Interpersonal Communications *</i>	F, Sp, Su	3
	*** ASSOCIATE OF APPLIED SCIENCE DEGREE EARNED *** NOTE: Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours.		<i>60 hours</i>

## READ ALL NOTES CAREFULLY:

- \* Refer to Core Curriculum and KC Catalog for all possible course options.
- a) Courses in **bold** have a pre-requisite (previous course required).
- b) Courses in *italics* can be taken in any order.
- c) ENGL 1301 and the first MATH class may require a co-requisite and/or developmental course depending on TSI Scores.
- d) Refer to KC Catalog for Certificate and AAS Degree Requirements.

## CAREER OPPORTUNITIES

I & E Technician  
Instrumentation Technician  
Controls Technician  
PLC Programming Technician

## ADVANCED DEGREE/CREDENTIAL OPPORTUNITIES

University of Texas at Tyler, Bachelor of Applied Arts and Sciences (BAAS) in Industrial Technology

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

University of Texas at Tyler, Department of Business and Technology, <https://www.uttyler.edu>  
Lamar University, <http://www.lamar.edu>

## CONTACT INFORMATION

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