Texarkana College
Degree Plan
2025-2026
One-Year L1 Advanced Certificate
Major: Instrumentation/Robotics

Student Name _____ ID#_____ FA student _____ VA student _____

Student Signature _____ Date _____

Advisor's Name _____ Advisor's Signature _____

Is remediation required? _____ Yes _____ No   TSIA scores: _____ Reading _____ Math _____ Writing

Comments _____

TC Course TCCN	Required Courses Title	Credit Hours	Semester Course Completed	Grade	Comments
Certificate Courses - 42 Total Hours					
CETT 1409	**DC-AC Circuits**[12]	**4**			
ELPT 1321	**Introduction to Electrical Safety and Tools**[12]	**3**			
DFTG 1329	**Electro-Mechanical Drafting**[12]	**3**			
ELPT 1325	**National Electrical Code I**[12]	**3**			
LEAD 1100	**Workforce Developmental w/ Critical Thinking**[12]	**1**			
CETT 1307	**Fundamentals of Electronics**[12]	**3**			
INTC 1405	**Introduction to Instrumentation**[12]	**4**			
RBTC 1401	**Programmable Logic Controllers**[12]	**4**			
RBTC 1305	**Robotic Fundamentals**[12]	**3**			
INTC 1443	**Application of Industrial Automatic Controls**[12]	**4**			
RBTC 2345	**Robot Application, Set-up, and Testing**[12]	**3**			
INTC 1457	**AC/DC Motor Control**[12]	**4**			
ELMT 2339	**Advanced Programmable Logic Controllers**[12]	**3**			
Total Credit Hours			**42**		

Many courses have pre-requisite or co-requisites and/or TSI requirements that must be met. Check course descriptions in the TC Catalog.

Explanation for Superscripts

1	**Communication Block (010):** *Complete each of the following: ENGL 1301 **and** ENGL 1302 or 2311*	2	**Mathematics Block (020):** *Complete one of the following: MATH 1314, 1316, 1324, 1325, 1332, 1350, 1442, 2412, or 2413*
3	**Life & Physical Sciences Block (030):** *Complete two of the following: BIOL 1306, 1307, 1308, 1309, 1311, 1313, 1322, 2301, 2302, 2306, 2320, 2321; CHEM 1305, 1307, 1311, 1312, 1419; GEOL 1303; PHYS 1301, 1303, 1304, 1315, 2325*	4	**Language, Philosophy, & Culture Block (040):** *Complete one of the following: ENGL 2322, 2323, 2327, 2328, 2332, 2333, 2341; HIST 2321, 2322; PHIL 2306*
5	**Creative Arts Block (050):** *Complete one of the following: ARTS 1301, 1310; DRAM 1310, 2366; MUSI 1306*	6	**American History Block (060):** *Complete each of the following: HIST 1301 **and** 1302*
7	**Government/Political Science Block (070):** *Complete each of the following:* *GOVT 2305 **and** 2306*	8	**Social & Behavioral Sciences Block (080):** *Complete one of the following: COMM 1307; ECON 2301, 2302; GEOG 1303; PSYC 2301, 2308, 2314; SOCI 1301*
9	**Component Area Option Block (090):** **Choose one from the following:** *SPCH 1315; SPCH 1318; SPCH 1321* ***OR** any courses in Component Areas (010), (020), (030), (040), (050), & (080) that are not used to fulfill another core requirement except MATH 2413, which is listed below.* ***AND*** ***Choose one from the following:*** *BCIS 1305; MATH 2413; PSYC/EDUC 1300*	10	**Lab Science Course** *Choose a lab science course that corresponds to the Life & Physical Sciences courses you take: BIOL 1106, 1107, 1108, 1109, 1111, 1113, 2101, 2102, 2120, 2121; CHEM 1105, 1107, 1111, 1112; PHYS 1101, 1103, 1104, 1115, 2125*
11	**Elective Option:** *Choose any college level course*	12	**Degree Requirement** *This course is required for this particular degree*

Students are advised to refer to the course descriptions for all courses identified in the degree plan to ensure they have completed the appropriate prerequisites.

Students planning to transfer to a four-year institution should check degree requirements of the college or university to which they plan to transfer.

Fall 2025