



Mechatronics AAS to  
**Bachelor of Applied Arts and Sciences**  
**Manufacturing and Industrial Management**  
**General Concentration <sup>T</sup>**  
**Guided Pathway**  
 Effective for the 2019-2020 Catalog



### First Year – Paris Junior College

FIRST SEMESTER	SECOND SEMESTER
CETT 1409 - DC-AC Circuits	CETT 1349 - Digital Systems
COSC 1301 - Introduction to Computing	HYDR 1345 - Hydraulics and Pneumatics
ELMT 2333 - Industrial Electronics	INTC 1341 - Principles of Automatic Control
ELPT 1221 - Introduction to Electrical Safety and Tools	RBTC 1301 - Programmable Logic Controllers
<sup>C</sup> MATH 2312 - Pre-Calculus Math	RBTC 1351 - Robotic Mechanisms

Total Semester Hours: 15

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### Second Year – Paris Junior College

It is best to apply to Tarleton State University a full semester before you plan to transfer.

FIRST SEMESTER	SECOND SEMESTER
ELMT 2337 - Electronic Troubleshooting, Service and Repair	<sup>C</sup> ARTS 1301 - Art Appreciation
ELPT 1351 - Electrical Machines	ELPT 2355 - Programmable Logic Controllers II
ELPT 2319 - Programmable Logic Controllers I	ENTC 1349 - Reliability and Maintainability
<sup>C</sup> ENGL 1301 - Composition I	<sup>C</sup> GOVT 2305 - Federal Government
<sup>C</sup> SPCH 1321 - Business and Professional Communication	INMT 2345 - Industrial Troubleshooting

Total Semester Hours: 15

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### AAS: Mechatronics

You will need to apply for the associate's degree at your community college. Contact your advisor there for more information.

These courses may be taken at Paris Junior College (if offered) or TSU-Stephenville Campus	
<sup>C*</sup> Any Core Elective (1 credit minimum)	<sup>C*</sup> Life and Physical Science Core Elective (4 credits)
<sup>C*</sup> Life and Physical Science Core Elective (4 credits)	MATH 1316 Plane Trigonometry or MATH 1342 Elementary Statistics
<sup>C</sup> ENGL 1302 Composition II	<sup>C</sup> GOVT 2306 Texas Government
<sup>C</sup> HIST 1301 United States History I	<sup>C</sup> HIST 1302 United States History II
<sup>C*</sup> Social and Behavioral Science Core Elective	<sup>C*</sup> Language, Philosophy and Culture Core Elective

Total Semester Hours: 16

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### Third Year – Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
ENGT 3318 Research & Reporting for Technologists	Advanced ENGT Course
Advanced ENGT Course	ENGT 3395 Project Management
Advanced ENGT Course	Advanced ENGT Course
Advanced Elective Course	Advanced ENGT Course

Total Semester Hours: 12

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### Fourth Year - Tarleton State University

FIRST SEMESTER
ENGT 3375 Continuous Improvement
Advanced ENGT Course
Advanced Elective Course
Advanced Elective Course
Advanced Elective Course

Total Semester Hours: 15

Total Degree Hours: 129

**This is not an official degree plan. Check with an advisor; degree plans may change in later catalogs.**

Part-time students may also follow this sequence. Developmental coursework may be required.

<sup>\*</sup> You may take a different course to meet this requirement. A specific list is available from your advisor.

<sup>C</sup> This course counts for the Core Curriculum at any public college or university in Texas.

<sup>( )</sup> Course numbers shown in parentheses are equivalent to these courses at Tarleton State University.

<sup>T</sup> Degree availability varies by campus; consult [www.tarleton.edu](http://www.tarleton.edu) for more information.