



Mechatronics AAS to  
**Bachelor of Applied Arts and Sciences**  
**Manufacturing and Industrial Management**  
**Safety Concentration**  
**Guided Pathway**  
 Effective for the 2018-2019 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
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	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
ENGL 1301 - Composition I	GOVT 2305 - Federal Government
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.

### Third Year – Tarleton State University

ENGT 3318 Research and Reporting for Technologists	ENGT 4320 Occupational Safety and Health
ENGT 3320 Industrial Safety	ENGT 3395 Project Management
<sup>C</sup> *Language, Philosophy and Culture Core Elective	ENGT 3326 Ergonomics and Work Methods (Spring Only)
<sup>C</sup> *GOVT 2306 Texas Government	ENGT 3360 Safety Management
<sup>C</sup> *Life and Physical Science Core Elective	MATH 1316 Plane Trigonometry or MATH 1342 Elementary Statistics
SUMMER	
<sup>C</sup> ENGL 1302 Composition II	<sup>C</sup> *Any Core Elective
<sup>C</sup> *Social and Behavioral Science Core Elective	

### Fourth Year - Tarleton State University

FIRST SEMESTER	SECOND SEMESTER
ENGT 3375 Continuous Improvement	Advanced Elective Course
Advanced ENGT Course	Advanced Elective Course
Advanced Elective Course	<sup>C</sup> HIST 1302 United States History II
Advanced Elective Course	Advanced ENGT Course
<sup>C</sup> HIST 1301 United States History I	<sup>C</sup> *Life and Physical Science Core Elective

**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.

\* 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.

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