

Autonomous Systems Technology (Certificate)

► Contact Information

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► Delivery Methods

Face-to-Face: Wahpeton

The Autonomous Systems Technology (AST) program is designed to provide students with the introductory technical knowledge, skills, and abilities necessary to succeed in industries utilizing ground-based autonomous systems.

Students from a wide variety of majors will have the opportunity to earn a certificate by taking specialized courses specific to ground-based autonomous systems. The courses required for the AST certificate will enhance the student's knowledge and skill set regarding autonomous systems and make them more marketable when entering the workforce.

Industries that hire AST graduates with the skill sets obtained in this program include; manufacturing, transportation, defense, and agriculture, among others.

This certificate program is structured to be taken in conjunction with another NDSCS academic program option.

NOTE: This program requires an HP ProBook 650 Laptop or equivalent. Please refer to the NDSCS website for specifications. The cost will be approximately \$950 if purchased from NDSCS. For further information, contact Lonnie Wurst, Robotics, Automation, and Mechatronics Technology program coordinator at 701-671-2832.

Course Code	Course Title	Credits
RAMT 101	Applied DC Theory	4
MFGT 110	Industrial Shop Practices	2
	-OR-	
MFGT 123	Fabrication Methods I	2
AST 101	Ground Systems I	2
AST 102	Ground Systems II	2
AST 103	Autonomous Sensing Systems	2
AST 111	Introduction to Data Science	2
AST 220	Autonomous Systems Capstone	2

Related/General Education Courses

General Education Elective	3
FYE 101 First Year Experience	1

Total Required Credits **20**

Admission Requirements*

The applicants must be high school graduates or equivalent. Students considered for acceptance must complete all admission requirements.

Required minimum placement scores:

<u>ACT</u>	<u>ACCUPLACER</u>	<u>ACCUPLACER</u>
Reading -15	Reading Comp- 61	<u>NEXT GENERATION</u>
English- 15	WritePlacer- 3-4	Reading- 240
Math- 17	Arithmetic- 51	Writing- 237
	Elementary Algebra- 25	QAS- 232

Or transfer equivalencies will apply as appropriate

Applicants not meeting the above requirements are encouraged to visit with the academic counselor at 701-671-2257 or the Robotics, Automation and Mechatronics Technology program coordinator at 701-671-2832 for strategies to meet the admission requirements.

**Program Admission Requirements are subject to revision. Please check the department or program website under Program Admission Requirements for current information.*

Award

Upon successful completion of the required courses, students will be awarded a certificate in Autonomous Systems Technology (AST).

Revised: May 2021