

## WHAT IS AUTONOMOUS SYSTEMS TECHNOLOGY?

Autonomous Systems Technology (AST) are systems that typically operate without human control and are designed to increase efficiency and safety. Typically autonomous systems act independently, learn, solve complex tasks and can react to unpredictable events. Graduates of this program will be able to perform entry-level set-up, operation, and deployment tasks related to autonomous machines.



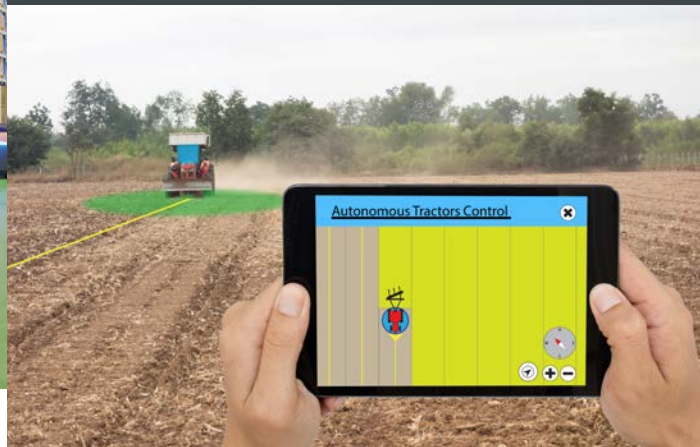
## CONTACT INFORMATION



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## INDUSTRIES CURRENTLY UTILIZING AUTONOMOUS SYSTEMS

- Manufacturing
- Transportation
- Defense
- Agriculture



[NDSCS.edu/AST](http://NDSCS.edu/AST)

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NORTH DAKOTA STATE COLLEGE OF SCIENCE

# AUTONOMOUS SYSTEMS TECHNOLOGY (AST)



## REQUIRED COURSES FOR CERTIFICATE

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
FYE 101	First Year Experience	1
	General Education Elective	3
<b>Total Required Credits</b>		<b>20</b>

## EARN YOUR A.A.S. DEGREE + AUTONOMOUS SYSTEMS TECHNOLOGY CERTIFICATE

Students are able to earn a certificate in AST while simultaneously working toward a degree or certificate in another NDSCS academic program option. Students will take seven courses specific to ground-based autonomous systems.

## WHAT CAN I EXPECT?

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.

The courses required for the AST certificate will enhance students' knowledge and skillset regarding autonomous systems providing them hands-on experience inside and outside the lab.



## CAREER OPPORTUNITIES

Students completing the AST Certificate program will have various transferrable skills and career options, including:

- Electrical/Mechanical Assembler
- Systems Test and Repair Technician
- Systems Deployment Technician

