

Robotics and Communications Systems Engineering Technology

(1.5 to 3 Years)

Program Description	Type	Degree
Basic Electronics, I.T.C. (https://coursecat.isu.edu/undergraduate/technology/roboticsandcommunicationsystemsengineeringtechnology/itc-basic-electronics/)	Certificate	
Laser/Electro-Optics Technology, A.T.C. (https://coursecat.isu.edu/undergraduate/technology/roboticsandcommunicationsystemsengineeringtechnology/atc-laser-electro-optics-technology/)	Certificate	
Robotics and Communications Systems Engineering Technology, A.T.C. (https://coursecat.isu.edu/undergraduate/technology/roboticsandcommunicationsystemsengineeringtechnology/atc-robotics-and-communications-systems-engineering-technology/)	Certificate	
Robotics and Communications Systems Engineering Technology, A.A.S. (https://coursecat.isu.edu/undergraduate/technology/roboticsandcommunicationsystemsengineeringtechnology/aas-robotics-and-communications-systems-engineering-technology/)	Degree	A.A.S.
Robotics Engineering Technology, B.A.S. (https://coursecat.isu.edu/undergraduate/technology/roboticsandcommunicationsystemsengineeringtechnology/bas-robotics-engineering-technology/)	Degree	B.A.S.

Objectives

Graduates of the Robotics and Communications Systems Engineering Technology program will:

1. Obtain gainful employment as professional, highly skilled, broad-based electronics technicians capable of working in a wide variety of electronics-related fields.
2. Successfully integrate as productive team members in the electronics industry utilizing written, oral and electronic communications skills.
3. Develop, install, maintain, troubleshoot, and repair equipment and circuitry integrated in audio, video, communications, laser, robotics, industrial electronics with embedded systems, and pulse electronic systems.
4. Complete projects, produce project overviews with written and oral presentation components, and identify and address potential financial, ethical, and social concerns.
5. Continue to expand their knowledge and remain current in a continuously expanding industry.

Program Information

Required courses will be taught in sequential blocks of instruction. Successful completion of a course is required before the student can progress in the program. If the student fails any math, theory, or lab course, then that course must be repeated and a passing grade obtained before the student can advance in the

program. The student must exit the program and make up their deficiency through Technical General Education or other appropriate methods. The student will then be allowed to repeat the course at the next available program opening.

Upon successful completion of RCET 1153A Basic Electricity and DC Circuit Theory, RCET 1153B Basic Electricity and AC Circuit Theory, RCET 1154A Analog Control Devices Theory, and RCET 1154B Digital Control Devices Theory, a student may enroll directly into an academic math course which requires MATH 1147 as a prerequisite.

Students must earn a C- or better in all RCET courses to progress in the program and graduate. An accumulative 2.0 GPA is required for graduation. For a Program Information Packet showing descriptions of each option, course descriptions, lists of course sequences, and the cost of books, tools, uniforms, fees, and other expenses, go online to <https://www.isu.edu/robotics/program-handbook--forms/>.

Accreditation

The Associate of Applied Science in Robotics and Communications Systems Engineering Technology is accredited by the Engineering Technology Accreditation Commission of ABET, <https://www.abet.org/>.

Faculty

RCET Courses