

Artificial Intelligence

Are you interested in a career where you can earn \$100,000.00 a year or more?

This two-year program is designed to meet the needs of students interested in pursuing a career in a wide variety of fields, including: nano and micro technologies, programming, electronics, industrial controls and robotics. It will be comprised of three components: sensors, actuators and microprocessors. The programming and electronics components will provide students with the skills and knowledge that are necessary to work with microprocessors- "the brains" of intelligent systems. Students will acquire math, science, engineering and manufacturing skills as they gain hands-on experience in the design and construction of a wide variety of projects.

Credits: 3 credits per year

Graduation Requirements:

Math, Science and Technology- Completing both ARTIFICIAL INTELLIGENCE 1 and 2, will fulfill one Math Credit, one Science Credit requirements. Completing ARTIFICIAL INTELLIGENCE 1 will fulfill the MAUHS 0.5 Technology credit requirement.

Prerequisite: Above a 70 in algebra one and science and Instructor permission

College Credits: DE- Digital Electronics, RIT 3 College Credits. See page 10 for more information

Post Program Education: Artificial Intelligence graduates have enrolled in:

Castleton State College (Vermont)
Champlain College
Community College of Vermont
Hudson Valley Community College
Massachusetts College of Liberal Arts
New England Institute of Technology
Rochester Institute of Technology
Southern Vermont College
U.S. Army
Vermont, Univ. of



Artificial Intelligence is about getting machines to make smart decisions based on information they gather from their environment.

If programming, electronics and robotics interest you then this course is the one for you. In it you will learn all about sensors, actuators, motors and microprocessors. You will learn how to program microprocessors to take information from sensors and then act upon that information.

Along the way you will learn about basic electronics and how to design and build your own intelligent machines.

Artificial Intelligence Students Study:

Basic Electronics
BASIC & Visual BASIC Programming
Machine Language Programming
Microprocessor Fundamentals
Light & Audio Sensors
Actuators
Radio Control
Magnetic Sensors
Infrared & Ultraviolet Lasers
Pico, Nano, Macro, & Micro Scaling & Dimensions
Understanding 3-Dimensional Space
Dumb Machines Making Smart Decisions
Statistical Analysis
MEMS (Micro Electro Mechanical Systems)
Project Management
Boolean Logic
Satellite Imagery
Solenoids & Servos