



Energy Technology • Third Year Option in Robotics

Semester Course Outline • 2026 – 2027

9 Months (2 Semesters) • Revised: 1/30/26
Credits Required for Graduation: 33

Graduates from the Energy Technology program can enroll in a third-year option to obtain an A.A.S. degree in Robotics. Admittance will be approved by the Robotics instructional staff.

Fall Semester

Course Number	Course Title	Clock Hours	Credits
EST 246	Circuit Board Design	84	3
EST 247	Microcontrollers	84	3
EST 267	Rework, Repair, and Surface Mount Soldering	56	2
RBTC 200	Mechanical Design and 3-D Modeling	84	3
RBTC 219	Programmable Logic Controllers (PLC) Integration	56	2
RBTC 227	Robot Operation and Programming	56	2
RBTC 229	Introduction to Vision Systems	56	2
Total		476	17

Spring Semester

Course Number	Course Title	Clock Hours	Credits
EST 115	Electronic Systems	112	4
EST 219	3D Printer Build	84	3
RBTC 202	Robotic Engineering	168	6
RBTC 238	Advanced Robotic Integration and Vision	84	3
Total		448	16