



MECHATRONICS STEM 10

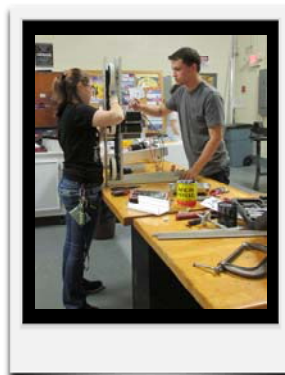
The **Mechatronics STEM 10** program facilitates hands-on investigation and learning of mechatronic systems using a problem-based approach. The course consists of lectures, lab activities, and projects that train students to develop system-level implementations of mechatronics.

The program provides an introduction to basic safety, 10 hour OSHA instruction, first aid/CPR, construction, math, hand tools, power tools, blueprints, basic rigging, basic communication skills and basic employability skills. Also integrated into the curriculum are industrial cover wiring, contactors and relays, precision measuring tools, basic machining, basic hydraulic systems and basic pneumatic systems.

Students are provided the opportunity to attend Central Carolina Technical College in their junior and senior year for dual enrollment towards a Mechatronics certification.

Central Carolina Dual Enrollment Courses:

11 th Grade: Fall Semester	COL 105 College Seminar		12 th Grade: Fall Semester	CPT 101 Intro to Computers
	IMT 211 Industrial Skills			MAT 155 Contemporary Math
11 th Grade: Spring Semester	EEM 117 AC/DC Circuits I		12 th Grade: Spring Semester	IMT 131 Hydraulics and Pneumatics
	IMT 104 Schematics			EEM 142 Commercial/ Industrial Codes



Sumter Career and Technology Center

2612 McCray's Mill Road
 Sumter, SC 29154
 Phone: 803.481.8575
 Web Site: www.sctc.sumterschools.net