

MECHATRONICS (4301)

COLLEGE CREDIT CERTIFICATE

This certificate program is part of the Engineering Technology degree program under the Advanced Manufacturing specialization designed to prepare students for positions in industrial engineering, maintenance and technology. The content includes instruction in maintenance techniques, technical communications, maintenance and operation of various industrial components, quality and control testing, material handling protocols, and proper usage of tools and instrumentation. Laboratory investigations benefit all students by developing the skills required to manage, operate, calibrate, and troubleshoot equipment/tools used to make observations.

For additional information, visit our website at [SJRstate.edu/engineering](http://SJRstate.edu/engineering) or send an email to [BCCInfo@SJRstate.edu](mailto:BCCInfo@SJRstate.edu).

CERTIFICATE SPECIFIC COURSES:

EET	1084C	Intro to Electricity and Electronics.....	3
EGN	1111	Engineering Graphics.....	3
ETI	1420C	Manufacturing Processes & Materials .....	3
+ ETI	1701	Industrial Safety .....	3
+ ETI	1843C	Motors and Controls.....	3
ETM	1010C	Mechanical Measurement & Instrumentation .....	3
ETM	2315C	Hydraulics and Pneumatics.....	3
ETS	1542C	Introduction to Programmable Logic Controllers.....	3
ETS	1603C	Fundamentals of Robotics.....	3
ETS	2527C	Electromechanical Components and Mechanisms .....	3

REQUIRED TOTAL CREDIT HOURS 30

+ Qualifying placement score or prerequisite course may be required. See course descriptions in catalog.