

Electrical Controls/Mechatronics Certificate

(Code 926)

GRCC Program:

The Electrical Controls/Mechatronics Certificate program is designed to give a student the basic skills required of an industrial machine service personal. All credits earned for this certificate apply to the AAAS Electrical Controls Engineering Technology degree.

Students entering this program should meet the college's minimum entrance requirements in Reading, Mathematics and English.

First Year

First Semester (Suggested Sequence) Credits

EL 150	Electric. Schematics, Elect. Stand. & Codes	(4/4)
EL 144	Basic Electricity and Electronics	OR (4/6)
EL 106	Technical Electricity	AND (4/6)
EL 107	Technical Electronics	(4/6)
EL 132	Electronics Mathematics	OR (4/4)
MA 107	Inter. Algebra or Higher Math	OR (4/4)
TE 103	Inter. Technical Mathematics	AND (4/4)
TE 104	Advanced Technical Mathematics	(3/3)

Total Credits 12 Minimum

Second Year

Third Semester Credits

EL 166	Advanced PLC Systems	(2/3)
EL 201	Industrial Electricity	(4/6)

Total Credits 6 Minimum

Second Semester (Suggested Sequence)

EL 162	Control Systems	(2/3)
EL 163	Electrical Troubleshooting	(2/2)
EL 164	Programmable Logic Controllers	(2/3)
MN 218	Pneumatics	(3/4)

Total Credits 9 Minimum

Fourth Semester

EL 275	Mechatronics-Automated Systems	(4/6)
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Total Credits 4 Minimum

Total Credits: 31 Minimum