

# ADVANCED MECHATRONICS, CERTIFICATE

The **Advanced Mechatronics certificate** provides students with multidisciplinary skills in the areas of mechanics, electricity, electronics, instrumentation, robotics, and manufacturing. This certificate prepares students for careers in industrial mechatronics.

For more information about Electro-Mechanical Technology, please visit the program page (<http://www.cod.edu/electro-mech/>).

## Certificate Requirements

Field of Study Code: ELMEC.CER.ADVMEC

Code	Title	Credits
<b>Program Requirements</b>		
ELECT 1100	Electricity and Electronics Fundamentals	3
ELMEC 1110	Motor & Generator Fundamentals	3
ELMEC 1141	Hydraulics and Pneumatics	3
ELMEC 1190	Intro to Programmable Logic Controllers	3
ELMEC 1420	Drive Components	2
ELMEC 2510	Process and Automation Controls	3
ELMEC 2520	Industrial Control and Data Acquisition	3
ELMEC 1106	Power Electricity and Rotating Machines	4
<b>Electives</b>		
Select one of the following:		3
ELMEC 1130	Industrial Electricity	
ELMEC 1150	National Electrical Code	
ELMEC 1171	Introduction to Robotic Technology	
ELMEC 2600	Motion Control: Motor Dr Application and Control	
<b>Total Credits</b>		<b>27</b>