Electronics Technology | Associate in Applied Science
Field of Study Code: INET.AAS.IMMT

Catalog Description:
The Integrated Mechatronics and Manufacturing Technology degree is designed to meet industry needs for multi-functional technicians competent in manufacturing, electro-mechanics, and electronics technology. InET engineering technicians apply scientific and engineering concepts to the implementation of existing technologies. Areas of focus include installation, operation and maintenance of manufacturing and automated systems.

Program Requirements ........................................................... 38
Elect 1100 Electricity and Electronics Fundamentals ...... 3
Elect 1101* Circuits I ............................................................... 3
Elmec 1110 Motor and Generator Fundamentals ....... 3
Elmec 1141 Hydraulics and Pneumatics ....................... 3
Elmec 1190 Introduction to Programmable Logic
  Controllers ................................................................. 3
Elmec 2510 Process and Automation Controls............ 3
Elmec 2520 Advanced Process and Automation
  Controls ................................................................. 3
Manuf 1101 Industrial Design/CAD ............................ 3
Manuf 1151 Machine Shop I .................................................. 3
Manuf 2251 Computer Numerical Control (CNC) ........ 3
Manuf 2252 CNC Operations ............................................. 3
Manuf 2253 Computer-aided Manufacturing (CAM) .... 3
Manuf 2280 Industrial Safety .......................................... 2

General Education ............................................................... 19
Take 19 credits of general education as required.

Communication: 6 credits
Written: (3 credits) English 1101 or 1105
Oral: (3 credits) Speech 1100, 1120 or 1150

Physical and Life Sciences: 3 to 5 credits
At least one course with a laboratory component

Mathematics: 3 to 5 credits
Select a minimum of 3 credits (1000 level or above).
Select Mathematics 1102, 1104 or 1120 only where required in the degree program. Only one from the following three courses may count toward overall degree requirement credit: Mathematics 1635, Psychology 2280 or Sociology 2205. Only one of the following courses may count toward overall degree credit: Mathematics 1428 or Mathematics 1431.

Humanities and Fine Arts: 3 credits

Social and Behavioral Sciences: 3 credits

Suggested Course Sequence
(Full-Time Enrollment)
Please note: A student’s readiness to perform college-level coursework is based on the student’s placement test and/or ACT scores. Below 1000 level coursework may be required prior to the student taking courses in the suggested sequences.

First Semester (15 credits)
• Elect 1100 (3)
• Manuf 1101 (3)
• Manuf 1151 (3)
• Gen Ed Comm: Written (3)
• Gen Ed Comm: Oral (3)

Second Semester (14 credits)
• Elect 1101 (3)
• Elmec 1190 (2)
• Manuf 2251 (3)
• Gen Ed Social & Behavioral Sciences (3)
• Gen Ed Humanities/Fine Arts (3)

Summer Term (6 credits)
• Elmec 2520 (3)
• Elmec 1141 (3)

Third Semester (14 credits)
• Elmec 1110 (3)
• Elmec 2510 (3)
• Manuf 2252 (3)
• Manuf 2280 (2)
• Gen Ed: Mathematics (3)

Fourth Semester (13-15 credits)
• Manuf 2253 (3)
• Program electives (7)
• Gen Ed: Physical & Life Sciences (3-5)

For more information:
If you are considering this program as an area of study, please contact Science, Technology, Engineering and Math Division office at 630-942-3210.

INET.AAS
Global/Multicultural Studies or Contemporary Life Skills: 2 credits

Program Electives: ................................................................. 7
Take 7 credits from the ELECT or ELMEC offerings.

TOTAL CREDITS FOR AAS DEGREE
64

Program web site:
http://www.cod.edu/academics/programs/electronics/integrated.aspx
Career Information INET.AAS

Job Title(s): Engineering Technicians, Except Drafters, All Other
"All Other" titles represent occupations with a wide range of characteristics which do not fit into
one of the detailed O*NET-SOC occupations. O*NET data is not available for this type of title.

For salary and wage information, please visit: www.onetonline.org

If you would like information regarding internships, resume development, interviewing and job
search skills, please contact the Career Services Center
Phone: 630-942-2230
www.cod.edu/careerservices Twitter: @codcareercenter

Related Occupations:
Electrical Engineering Technologist Mechanical Engineering Technologist
Electromechanical Engineering technologist Manufacturing Production Technician
Electronics Engineering Technologist Non-Destructive Testing Specialist
Manufacturing Engineering Technologist