

For the **Manufacturing Technology degree**, students are required to take 20 credits in General Education.

Under the specified General Education headings below, the following courses are 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

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

(Manufacturing Technology 1180 fulfills this requirement)

TOTAL CREDITS FOR AAS DEGREE

65

Career Information MANUF.AAS

Job Title(s): Manufacturing Production Technicians
Research and Development Machinist

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:

Electronics Engineering Technicians

Robotics Technicians

Electrical and Electronics Repairers,

Commercial and Industrial Equipment

Industrial Machinery Mechanics

Electrical Engineering Technicians

Mechanical Engineering Technicians

Computer Numerically Controlled Machine Tool

Programmers, Metal and Plastic

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

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

(Manufacturing Technology 1180 or 2280 fulfills this requirement)

TOTAL CREDITS FOR AAS DEGREE

66

Career Information MANUF.AAS.AUTO

Job Title(s): Computer-Controlled Machine Tool Operators, Metal and Plastic Brake Press Operator; Computer Numerical Control Lathe Operator (CNC Lathe Operator); Computer Numerical Control Machine Operator (CNC Machine Operator); Computer Numerical Control Machinist (CNC Machinist); Computer Numerical Control Mill Operator (CNC Mill Operator); Computer Numerical Control Operator (CNC Operator); Computer Numerical Control Set-Up and Operator (CNC Set-Up and Operator); Machine Operator; Machine Set-Up, Operator; Machinist

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

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Related Occupations:

Engine and Other Machine Assemblers

Rolling Machine Setters, Operators, and Tenders, Metal and Plastic Machinists

Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic
Cutting and Slicing Machine Setters, Operators, and Tenders

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

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

(Manufacturing Technology 1180 fulfills this requirement)

TOTAL CREDITS FOR AAS DEGREE

65

Career Information MANUF.AAS.DRAFT

Job Title(s): Mechanical Drafters

Mechanical Drafter, Designer, Drafter, Design Drafter, Mechanical Designer, CAD Designer (Computer Aided Design Designer), CAD Operator (Computer Aided Design Operator), CAD/CAM Specialist (Computer Aided Design/Computer Aided Manufacturing Specialist), Project Designer, Installation Drafter

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

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Related Occupations:

Architectural Drafters

Civil Drafters

Electronics Engineering Technicians

Electronic Drafters

Mapping Technicians

Electrical Drafters

Commercial and Industrial Designers

Civil Engineering Technicians

Manufacturing Technology | Associate in Applied Science

Field of Study Code: MANUF.AAS.MET

Catalog Description:

The **Manufacturing Engineering Technology degree** requires 65 credits in program requirements and general education in the courses listed below.

Program Requirements	53
Manuf 1101 Industrial Design/CAD	3
Manuf 1121 Physical Metallurgy	3
Manuf 1151 Machine Shop I.....	3
Manuf 1160* Technical Static and Strength of Material	4
Manuf 1180 Quality Control	3
Manuf 2202* Solid Modeling and Design	3
Manuf 2203* Manufacturing Processes and Design	3
Manuf 2251* Computer Numerical Control (CNC).....	3
Manuf 2253* Computer-Aided Manufacturing (CAM).....	3
Manuf 2281 Cost Analysis.....	3
Elect 1100 Electricity and Electronics Fundamentals	3
Elmec 1141 Hydraulics and Pneumatics	3
Math 1431* Precalculus I	5
Math 1432* Precalculus II: Trigonometry	3
Math 1635* Statistics	4
Physi 1201* General Physics I	5

* - course has a prerequisite

General Education

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Each candidate for an Associate in Applied Science (A.A.S.) degree shall satisfactorily complete a minimum of 18 credits in General Education. (In addition to the courses listed above.)

For the **Manufacturing Engineering Technology degree**, some General Education courses are already listed under program requirements. Therefore, students only need 12 credits besides those listed under program requirements.

Under the specified General Education headings below, the following courses are required for the **Manufacturing Engineering Technology degree**:

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

(Physics 1201 in program requirements fulfills this requirement)

Mathematics: 3 to 5 credits

Select a minimum of 3 credits (1000 level or above).

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 (14 to 16 credits)

- Manuf 1101 (3)
- Manuf 1151 (3)
- Math 1431 (5)
- General Education (3 to 5)

Second Semester (15 to 17 credits)

- Math 1432 (3)
- Elect1100 (3)
- Manuf 1121 (3)
- Manuf 2202 (3)
- General Education (3 to 5)

Summer Term (4 credits)

- Math 1635 (4)

Third Semester (17 to 19 credits)

- Manuf 1180 (3)
- Manuf 2203 (3)
- Manuf 2251 (3)
- Physi 1201 (5)
- General Education (3 to 5)

Fourth Semester (16 to 18 credits)

- Manuf 1160 (4)
- Manuf 2253 (3)
- Manuf 2281 (3)
- Elmec 1141 (3)
- General Education (3 to 5)

For more information:

If you are considering this program as an area of study, please contact the **Business and Applied Technology Division** office at 630-942-2592.

Program web site:

[www.cdupage.edu](#)

[www.manuf.aas.met](#)

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.

(Mathematics 1431 or 1432 in program requirements fulfills this requirement)

Humanities and Fine Arts: 3 credits

Social and Behavioral Sciences: 3 credits

Complete at least 2 credits from the list of courses in the Global/Multicultural Studies or Contemporary Life Skills Category.

(Manufacturing 1180 in program requirements fulfills this requirement)

TOTAL CREDITS FOR AAS DEGREE

65

Career Information MANUF.AAS.MET

Job Title(s): Manufacturing Engineering Technologists

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

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Related Occupations:

Logistics Engineers

Industrial Engineers

Mechanical Engineers

Manufacturing Engineers

Electronics Engineers, Except Computer

Robotics Technicians

Electronics Engineering Technologists

Aerospace Engineering and Operations Technicians