

# TECHNOLOGY STUDIES, AS

**Program code:** TCHS-AS-COT

**Location:** Asnuntuck, Gateway, Housatonic, Manchester, Middlesex, Naugatuck Valley, Northwestern, Norwalk, Quinebaug Valley, Three Rivers, Tunxis

## Program Description

As part of the Connecticut College of Technology (COT), the Technology Studies A.S. degree provides the knowledge and skills within specific high-demand technology fields. The program consists of lecture and lab course work in engineering, technology, industrial technology, mathematics, sciences, and foundational requirements that provide a solid comprehensive background for continuation in a four-year technology degree program or entry into the workforce. Upon completion of a Technology Studies A.S. degree, students can transfer to Central CT State University or the University of Hartford to complete designated B.S. degrees.

## Learning Outcomes

1. Apply mathematical, scientific and technological principles and concepts to identify and formulate solutions to technical problems.
2. Apply critical thinking and problem-solving skills to solve technical problems.
3. Demonstrate the ability to function on teams.
4. Recognize the need to engage in life-long learning.

Additional learning outcomes are achieved with the student's chosen area of specialization.

There are a variety of specializations which can be pursued within the College of Technology. Courses from one of these areas can be used to complete an Associate degree. Specialty areas can be found on the Related Programs tab.

## Degree Requirements

| Code   | Title   | Credits |
|--|---|---------|
| <b>Technology Studies General Education Core</b>                                       |   |         |
| ENG 1010   | Composition   | 3       |
| MATH 1610  | Precalculus   | 4       |
| ART Elective (course vetted for ARHX)  |   | 3       |
| CHEM 1110<br>or CHEM 1210  | Concepts of Chemistry<br>General Chemistry I            | 4       |
| Elective HISX - Historical Knowledge Course or Elective SBSX course in ECON            |   | 3       |
| ENG 1080<br>or COMM 1301   | Composition II: Technical Writing<br>Public Speaking    | 3       |
| CCS 1001   | College and Career Success                              | 3       |
| <b>Technology Studies Program Core</b>   |   |         |
| PHYS 1201<br>or PHYS 2201  | General Physics I<br>Calculus-Based Physics I           | 4       |
| Elective BHEL - Behavioral Science Elective Credits: choose an ANTH, PSY or SOC course |   | 3       |
| MATH 1200<br>or MATH 1201  | Statistics I<br>Statistics I with Computer Applications | 3-4     |

### Specialization Courses

|   |       |
|---|-------|
| Students will choose courses based on the specialization they choose. | 27-36 |
|---|-------|

|                      |              |
|----------------------|--------------|
| <b>Total Credits</b> | <b>60-70</b> |
|----------------------|--------------|

Technology Studies is a parent program and only one Associate degree may be earned from the discipline. Students may earn multiple certificates.

- Technology Studies: Advanced Manufacturing Machine Technology Certificate Option 1
- Technology Studies: Advanced Manufacturing Machine Technology Certificate Option 2
- Technology Studies: Advanced Manufacturing Machine Technology Option 1, AS
- Technology Studies: Advanced Manufacturing Machine Technology, AS - Option 2
- Technology Studies: Architectural CAD Certificate
- Technology Studies: Artificial Intelligence, AS
- Technology Studies: Biomolecular Sciences, AS
- Technology Studies: CAD User Certificate
- Technology Studies: Computer Engineering Technology, AS
- Technology Studies: Data Science Certificate
- Technology Studies: Data Science, AS
- Technology Studies: Energy Management Certificate
- Technology Studies: Energy Management, AS
- Technology Studies: Engineering Technology, AS
- Technology Studies: Environmental Science, AS
- Technology Studies: Industrial Technology, AS
- Technology Studies: Manufacturing Engineering Technology, AS
- Technology Studies: Mechanical CAD Certificate
- Technology Studies: Mechatronics Automation Technician Certificate
- Technology Studies: Mechatronics Automation Technician, AS
- Technology Studies: Precision Manufacturing Certificate
- Technology Studies: Precision Manufacturing, AS
- Technology Studies: Robotics and Mechatronics Technician Certificate
- Technology Studies: Robotics and Mechatronics Technician, AS
- Technology Studies: Technology and Engineering Education, AS
- Technology Studies: Welding & Fabrication
- Technology Studies: Welding and Fabrication Technologies Certificate