

JOB-FOCUSED EDUCATION

Accredited | Affordable | Two-Week Terms

SOFTWARE DEVELOPMENT

Would you like to combine your tech skills with improving the environment?

Do you like to solve technology challenges in a sustainable way? Does the advancement of technology, like electric cars and smart homes excite you? With a degree in Software Development, you can be part of the solutions needed to address environmental issues by creating computer applications that allow underlying systems to run devices or control networks. You'll learn to be part of the entire process of creating a software program and may use your program to improve the world you care about. You could develop the next sustainability app or help improve the next generation of green transportation. The evergrowing forms of energy-saving products and services need software developers to design, program, test, support and continually improve them.

HOW YOU WILL LEARN

We have identified the best features of in-person and virtual learning, brought them together, and created an innovative and flexible education designed for the modern learner. All courses run on a two-week term calendar where learners take one course at a time. Each class meets in person regularly with day, weekend, and evening options available. In addition, courses leverage HyFlex instruction to enhance classroom learning. Using this flexible approach, learners leverage tools such as discussion boards, academic support resources, videos, and project-based assignments to demonstrate their understanding of the content. Our facility in New Gloucester, Maine, is equipped with state-of-the-art classrooms deploying cutting-edge technology, laboratories, conference rooms, co-working/study spaces, and more to support and enhance teaching and learning.

ASSOCIATE DEGREE



TECHNICAL INSTITUTE FOR
ENVIRONMENTAL PROFESSIONS

COSTS

- + \$250 per credit
- + Financial aid options are available, which can reduce out-of-pocket costs significantly.
- + There are no additional textbook costs for most of our courses!

JOB OUTCOMES, & GROWTH*

Software developer

 +15%

Software Tester

 +15%

Systems Analyst

 +7%

*Projected 10-year growth
Source: O*Net



TECHNICAL INSTITUTE FOR
ENVIRONMENTAL PROFESSIONS

UNOFFICIAL CHECKSHEET A.A.S. IN SOFTWARE DEVELOPMENT

Student Name

Total Transfer Credits Checksheet Date

GRADUATES WILL BE ABLE TO:

- + Apply a problem-solving process to solve software problems.
- + Demonstrate an understanding of program logic by creating flowcharts and structure charts.
- + Demonstrate an understanding and an application of the Open Systems Interconnection (OSI) Model, layers, and functions as well as operating systems and sub-systems.
- + Design and code syntactically and logically correct operational programs using an assigned programming language.
- + Manage code and code versions using a software repository.
- + Discuss the ethical and societal issues related to all the professions including software development.
- + Demonstrate an understanding of the software development process and software process management.
- + Demonstrate an introductory understanding of digital devices and digital logic.

General Education Core

- COM 100** Career Pathways
- COM 101** Digital Fluency and Information Literacy
- COM 102** 21st Century Communication Skills
- COM 105** Write Right!
- COM 201** Research Applications
- COM 205** Focus on Sustainability
- MAT 101** Foundational Algebra
- ENS 101** Our Blue Planet
- ENS 201** World Cultures
- GIS 101** Introduction to Geographical Information Systems for Environmental Professionals

Program Core

- DIG 101** Digital Devices and Digital Logic
- ITS 101** Fundamentals of Networking
- ITS 203** Operating Systems
- PGR 101** Fundamentals of Coding
- PGR 109** Programming I
- PGR 209** Programming II
- PGR 215** Data Structures I
- PGR 217** Data Structures II
- PRO 201** Professional Ethics
- PRO 290** Professional Capstone

Electives

20 credits of unrestricted electives

Graduation Requirements

A minimum of 60 earned credit hours, a minimum of 15 credits earned at the Technical Institute, and an overall cumulative GPA of 2.0 or above.



TECHNICAL INSTITUTE FOR
ENVIRONMENTAL PROFESSIONS

SECOND DEGREE

UNOFFICIAL CHECKSHEET A.A.S. IN SOFTWARE DEVELOPMENT

Student Name

Total Transfer Credits Checksheet Date

GRADUATES WILL BE ABLE TO:

- + Apply a problem-solving process to solve software problems.
- + Demonstrate an understanding of program logic by creating flowcharts and structure charts.
- + Demonstrate an understanding and an application of the Open Systems Interconnection (OSI) Model, layers, and functions as well as operating systems and sub-systems.
- + Design and code syntactically and logically correct operational programs using an assigned programming language.
- + Manage code and code versions using a software repository.
- + Discuss the ethical and societal issues related to all the professions including software development.
- + Demonstrate an understanding of the software development process and software process management.
- + Demonstrate an introductory understanding of digital devices and digital logic.

General Education Core

20 Credits met by transfer block

Program Core

- DIG 101** Digital Devices and Digital Logic
- ITS 101** Fundamentals of Networking
- ITS 203** Operating Systems
- PGR 101** Fundamentals of Coding
- PGR 109** Programming I
- PGR 209** Programming II
- PGR 215** Data Structures I
- PGR 217** Data Structures II
- PRO 201** Professional Ethics
- PRO 290** Professional Capstone

Electives

20 Credits met by transfer block

40 total credits in transfer credit block

Graduation Requirements

A minimum of 60 earned credit hours, a minimum of 15 credits earned at the Technical Institute, and an overall cumulative GPA of 2.0 or above.