



The Stone Soup Leadership Institute's BETA Program
Durfee High School CTE's Environmental Science & Tech Program

Certificates & Dual Enrollments



Bristol Community College

Certificates

[Offshore Wind Power Technology Certificate](#)

This certificate program is aimed towards preparing technicians and skilled workers for the offshore wind industry. Participants will learn topics in electrical machinery, fluid systems, operations and maintenance, and offshore safety and survival, and will gain hands-on experience on assembly, installation, and maintenance of wind power systems. The program also enables participants to study wind turbine performance characteristics in a wind tunnel to make them conversant with wind turbine operation and need for maintenance.

[Sustainable Agriculture Certificate - 2 semesters](#)

Gain the academic knowledge and practical skills to enter the expanding world of sustainable organic agriculture and technology. The program is for those with an appreciation for the natural world, ecology, human health and welfare, and a spirit of entrepreneurship.

[Water Quality Professional Certificate](#)

This certificate provides students with skills for entering careers in water and wastewater treatment. Coursework prepares students for the Massachusetts operator certification examinations or can be used as contact hours by those already in the field. Courses can be transferred to the Bristol Engineering Technology degree program.

[Clean Water Quality Professional Technician](#)

Prepare students to enter into, or to advance in, careers in the water industry with particular attention to Wastewater Treatment and Collection. Students successfully completing these courses will be prepared to take the Massachusetts Wastewater Treatment Plant Operator and Collection System Certification Examinations.

[Drinking Water Quality Professional/Technician](#)

Prepare students to enter, or to advance in, careers in the water industry with particular attention to drinking water treatment and distribution. Students successfully completing these courses will be prepared to take the Massachusetts Drinking Water Treatment Operator and Distribution System Certification Examinations.

Commercial Fisheries At-Sea Monitor

The National Marine Fisheries Service At-Sea Monitoring Program was established under Amendment 16 of the Northeast Multispecies Fishery Management Plan. It is an integral part of catch monitoring to ensure that Annual Catch Limits of fish species are not exceeded. This certificate is designed to prepare the student for a career as an At-Sea Monitor in the commercial fishing industry. Upon successful completion of this program, students will apply for employment with approved At-Sea Monitoring Service Providers. Once hired, students will utilize their training to take and pass the National Marine Fisheries Service At-Sea Monitoring Certification course to obtain federal certification as an At-Sea Monitor.

Solar Energy

This certificate is designed to help individuals understand the fastest growing form of power generation in the world- solar power. Students will learn about design requirements, installation guidelines, materials, and resources of green energy systems. Key concepts include the basics of electrical circuits, sustainable practices, and conservation measures. Students will also be trained in energy assessment, auditing and efficiency. Upon completion of this certificate, graduates will be prepared to work in entry-level positions in energy-related fields

Geographic Information Systems

Geographic Informational Systems (GIS) provides a powerful tool in any academic discipline to analyze relationships among data. It is commonly used in business, environmental, geographical, political, law enforcement, and social science applications.

Associates

Engineering Technology/ Offshore Wind Power Technology

This program aims to prepare skilled workers, technicians, team leaders, researchers, and scientists for the offshore wind industry. Participants will learn topics in electrical machinery, fluid systems, operations and maintenance, leadership, corrosion management, and offshore safety and survival. Participants will explore wind turbine performance characteristics under varied wind conditions in a wind tunnel. They will also learn about assemblies and components in wind turbines, common failures and faults, maintenance strategies and related risk analysis from availability and maintainability perspective. Assembly, installation, and maintenance of small-scale wind turbines are done in laboratory conditions. The program prepares participants for the wind industry certifications and advances many soft-skills like communication and leadership.

Environmental Technology Career

This program provides students with a broad understanding of the environment and current environmental issues. Students utilize their knowledge of water resources, environmental regulations, sampling techniques, and hazardous materials to prepare for state licensure examinations and entry-level environmental technician positions.

Life Sciences/ Environmental Science Transfer

This program meets the requirements of the MassTransfer policy. Community college students who graduate from the Environmental Science program receive the benefit of full transfer and applicability of credit, guaranteed admission, and a tuition discount at any Massachusetts state college or university. Each benefit is based on the student's final grade point average.

Engineering Technology/ Marine Science and Technology Career

This program is designed to prepare students as technicians and scientists working in various areas of the marine industry and marine research. Participants gain an understanding of aquatic life, ocean science, marine and environmental technologies, and have the opportunity to select specialized courses in the areas of at-sea

monitoring/fisheries technology, marine science transfer, oceanographic instrumentation/remotely operated vehicle (ROV) technology, renewable energy and water quality.

[Life Sciences/ Sustainable Agriculture](#)

The Sustainable Agriculture program is designed to address the issues of a safe, reliable food supply and the environmental relationships of agriculture with resource use, energy consumption and climate change. The goal of this program is to provide the practical training and experience for sustainable farming and gardening and is directed towards new farmers, gardeners, landscapers, nursery producers, and farm managers. Graduates will be prepared to enter farming, gardening, community organizations, agricultural businesses, or to continue their education in sustainable food production and agricultural professions.

[Life Sciences / Biology](#)

This program is designed for students who plan to transfer to a 4-year institution and major in Biology or another Life Science field. The goal is to provide students with the necessary skills and background to be successful at a 4-year institution.

[Biology A2B Transfer](#)

This program is designed for students who plan to transfer to a 4-year institution and major in Biology or another Life Science field. The goal is to provide students with the necessary skills and background to be successful at a 4-year institution.

[Engineering Technology / Marine Science and Technology Career](#)

This program is designed to prepare students as technicians and scientists working in various areas of the marine industry and marine research. Participants gain an understanding of aquatic life, ocean science, marine and environmental technologies, and have the opportunity to select specialized courses in the areas of at-sea monitoring/fisheries technology, marine science transfer, oceanographic instrumentation/remotely operated vehicle (ROV) technology, renewable energy and water quality.

Engineering Science Transfer

[Life Sciences / Chemistry](#)

This program is designed for students who plan to transfer to 4-year institutions and major in Chemistry or a related field. Students graduating from Bristol Community College with an Associates in Science with Chemistry concentration will be qualified for entry-level employment in a chemistry-related career.

[Life Sciences / Physics](#)

This program is designed for students who plan to transfer to a four-year institution and major in Physics or a related field. The goal is to provide students with a solid foundation in the knowledge and skills that they will need to succeed at a four-year institution.

UMASS Dartmouth Undergraduate

No certificates, just 4 year degrees

[Marine Biology major](#)

[Sustainability minor, minor information](#)

UMass Dartmouth's School for Marine Sciences & Technology (SMAST)

Master's and PhD programs only



Stone Soup Leadership Institute
www.stonesoupleadership.org
<https://sustainwdn.com/durfee-high-school-beta/>