

MARINE DIVING TECHNICIAN, ASSOCIATE OF SCIENCE (AS)

Overview

A.S. Degree Marine Diving Technician program trains professional commercial divers and technicians. The program is open to part-time and full-time students for both diving and non-diving related coursework.

The training curriculum includes instruction in all phases of commercial diving, hyperbaric medicine, marine science, boating, bell/saturation diving emergency medicine, and remote operated vehicles (ROV's) to name but a few. Teamwork and Safety are the prime emphases of marine technician training. Students completing the full Associate in Science program are also eligible for industry certifications which are required for employment. The A.S. degree increases the diversity of career paths and employability of graduates within the marine industry. A.S. degree students train in marine technology and supplement their skills with specialized technology classes and general education requirements.

Admission Requirements: The program is open to all interested students to both diving and non-diving classes.

1. Non-diving students submit SBCC Application to Admissions Office
2. Students enrolling in diving classes, provide proof of diving certification and submit the Department Application for Diving.

Requirements

Associate Degree Graduation Requirements

Complete all of the following:

1. All Department Requirements listed below with a "C" or better or "P" in each course (at least 20% of the department requirements must be completed through SBCC).
2. One of the following three General Education options:
 - a. OPTION 1: A minimum of 18 units of SBCC General Education Requirements (<https://catalog.sbcc.edu/degrees-certificates-awards/#associatedegreestext>) (Areas A-D) and Institutional Requirements (Area E) and Information Competency Requirement (Area F) OR
 - b. OPTION 2: IGETC (<https://catalog.sbcc.edu/transfer-curricula/#igetctext>) Pattern OR
 - c. OPTION 3: CSU GE Breadth (<https://catalog.sbcc.edu/transfer-curricula/#csugebtext>) Pattern
3. A total of 60 degree-applicable units (SBCC courses numbered 100 and higher).
4. Maintain a cumulative GPA of 2.0 or better in all units attempted at SBCC.
5. Maintain a cumulative GPA of 2.0 or better in all college units attempted.
6. A minimum of 12 units through SBCC.

Code	Title	Units
Department Requirements		
BIOL 124 or BIOL 142 or ERTH 151	Biological Oceanography Marine Science Introductory Physical Oceanography	3-4
BIOL 125	Marine Biology	4

DRFT 101 or DRFT 130 or ENGR 105	Basic Drafting Computer-Assisted Drafting And Design I Engineering Graphics	3-5
EMT 110	Emergency Medical Technician-Basic	6
MDT 101	Information and Introduction to Marine Diving Technology	0.3
MDT 104	Fundamentals and Practices of Diving	2
MDT 105	Advanced Scuba Techniques	1.7
MDT 106	Open Water Navigation And Rescue	0.7
MDT 107	Hyperbaric Chamber Operations	1.5
MDT 108	Rigging	1
MDT 109	Seamanship and Small Boat Handling	1.5
MDT 111	First Aid For The Diving Professional	1.4
MDT 112	Introduction To Marine Welding	1.1
MDT 140	Principles Of Surface-Supplied Diving	1
MDT 141	Commercial Diving Equipment	1.5
MDT 142	Surface-Supplied Ocean Diving	1.8
MDT 143	Mixed Gas Diving	1.1
MDT 145	Principles Of Underwater Cutting And Welding	1
MDT 146	Advanced Underwater Cutting And Welding	1.5
MDT 147	Ocean Structures	0.5
MDT 148	Hydraulics I	0.7
MDT 152	Underwater Tools And Inspection	1.7
MDT 154	Bell And Saturation Diving Procedures	1.7
MDT 179	Nitrox Diving	0.8
MDT 190	Assessment And Development Of Diving Competence	1
PHYS 101 & 101L	Conceptual Physics and Conceptual Physics Laboratory	4
Total Units		45.50-48.50

Recommended Electives

Code	Title	Units
CS 101	Computer Concepts	4
PE 134A	Swimming For Conditioning: Beginning	1.5

Learning Outcomes

1. Meet the qualifications of an entry-level commercial diver established by the United States Occupational Safety and Health Administration, the United States Coast Guard, the American National Standards Institute and the Association of Diving Contractors
2. Comprehend physical laws governing hyperbaric and industrial operations in a marine environment
3. Conduct hyperbaric and industrial-related activities safely and in accordance with recognized agency and industry standards
4. Apply knowledge of diving techniques and associated capabilities to determine proper operational procedures for diverse marine-related construction, inspection, maintenance, repair and decommissioning projects
5. Perform the assigned duties of an entry-level diver as an individual or member of a support team in a safe, effective and efficient manner

Recommended Sequence

Make an appointment with your SBCC academic counselor through Starfish to create a Student Education Plan that reflects a recommended course sequence for this program that is tailored to your individual needs.

How to schedule an Academic Counseling appointment (http://www.sbcc.edu/starfish/howtos/starfish_appt_how_to.pdf).