

Certificate Commercial Fisheries/Marine Technology

33 Credit hours

Course #	Course Title	Credits
BUS 110	Introduction to Business	3
ENG 101	College Composition	3
FYE 100	First Year Experience	1
MRT 105	Fisheries Fundamentals I	3
MRT 110	Marine Maintenance and Operations I	4
TEC110	Shop Safety	1
MAT 106	College Mathematics for Technologies	3
MRT 106	Fisheries Fundamentals II	3
MRT 107	Introduction to Fisheries and Aquaculture Operations	4
MRT 112	Marine Maintenance and Operations II	4
WEL 109	Introduction to Welding	2
MRT 115	Basic Open Water Diving (SCUBA)	2
	OR	
MRT 116	USCG OUPV Captain's License Course	2
	Total	33

BUS 110 Intro to Business

This course will survey the business management functions found in modern organizational environs to provide a foundation for understanding the interrelations of the various facets of business organizations. (online)

ENG 101 College Comp

This course provides an introduction to academic writing. Students will study and practice standard rhetorical modes through frequent writing assignment and critical analysis of reading selections. This course emphasizes writing as a process of drafting, revising, rewriting, and proofreading. It also provides an introduction to information literacy. Students will study and practice locating, evaluating, integrating, and documenting sources in MLA style. Prerequisite: ENG 098 passed with a C or better or satisfactory scores on the reading and writing placement tests. The successful student will have basic skills in keyboarding and electronic document editing. (online)

MAT 106 Math for Technologies

This course reviews fractions, decimals, and percent. It covers integers, simple algebraic equations and formulas, ratio, proportion, geometric concepts, and right triangle trigonometry. This course emphasizes applied mathematics. Prerequisite: MAT091 passed with a C- or better or satisfactory scores on the skills assessment examination. (online)

WEL 109 Basic Welding

This course teaches basic arc welding, light MIG welding, and torch work.

TEC 110

This course will study proper safety practices, habits, and attitudes in shop areas. This course is field specific and addresses safety concerns in the mechanical technologies.

FYE 100 First Year Experience

Students will actively and deliberately engage in the requirements of their transition into college. This seminar focuses on *how* to succeed. It will facilitate a strong start, empower with necessary skills and awareness, chart a path toward achievement of goals, and direct students toward supports as needed. Particular attention will be paid to navigating the college environment, expectations of the institution, individual learning style, career development, academic strategies, community building, time management and time theft. (online)

MRT 105 Fisheries Fundamentals I

This Introductory level course is a study of basic marine language, commercial fishing and aquaculture systems, marine regulation, and management. The course is designed to introduce both commercial fishermen and non-commercial fishing students to Commercial fisheries and Aquaculture industries. The course provides a foundation for many of the other marine and non-marine courses provided in the commercial fisheries track and the aquaculture track. (online)

MRT 106 Fisheries Fundamentals II

This course designed to continue the framework created in Commercial Fisheries Fundamentals I; but will be covering topics such as a study of basic marine economics, commercial fishing advocacy, and deepen the understanding of marine regulation and management. (online)

MRT 107 Intro to Fisheries and Aquaculture Operations

This course will study hatchery operations, care of the catch, and gear used in commercial fisheries and includes multiple field experiences with various partners including Cooke Aqua, the Down East Institute and the Center for Aquaculture Research/UM. (under development)

MRT 110 Marine Maintenance and Operations I

This course covers the structural components of commercial fishing vessels and electrical and electronics systems. (under development)

MRT 112 Marine Maintenance and Operations II

This course covers marine engine systems, hydraulics, and fluid systems (pumps and recirc re: land based aquaculture). (under development)

MRT 115 USCG OUPV Captain's Course

An OUPV license is an entry-level masters credential that allows mariners to operate power or sailing vessels up to 100 Tons in size, carrying no more than 6 paying passengers. This course will involve lectures and hands-on exercises in course content including: Rules of the Road, Deck General, Safety, Terrestrial Navigation, Charting, Emergency Response, Boat Handling, Seamanship, and Maritime Law. Upon successful completion of this course mariners will not have to test with the USCG and can immediately begin the application process with unlimited application support from Johnson Marine Services. (online and live lecture)

MRT 116 Basic Open Water Diving (SCUBA)

This is a three step course with an online portion, a pool preparatory portion, and an open water dive portion. Start your SDI Open Water Scuba Diver course and master all the important academic information online or at your local dive shop. You can complete this phase through self-study, at your own pace, in the convenience of your home or office. All eLearning courses work on mobile and tablet devices too. For entry-level certification courses (as well as some continuing-education classes), the next step will be to complete your in-water skill-development training. This takes place in a swimming pool or similar body of confined water, under the supervision of an SDI Instructor. The final step is to complete the required number of SDI open-water training dives under the supervision of your SDI Instructor. Here you will apply what you have learned during your academic and skill-development sessions, while learning practical lessons that can only be gained through real-world experience in open water. (hybrid)