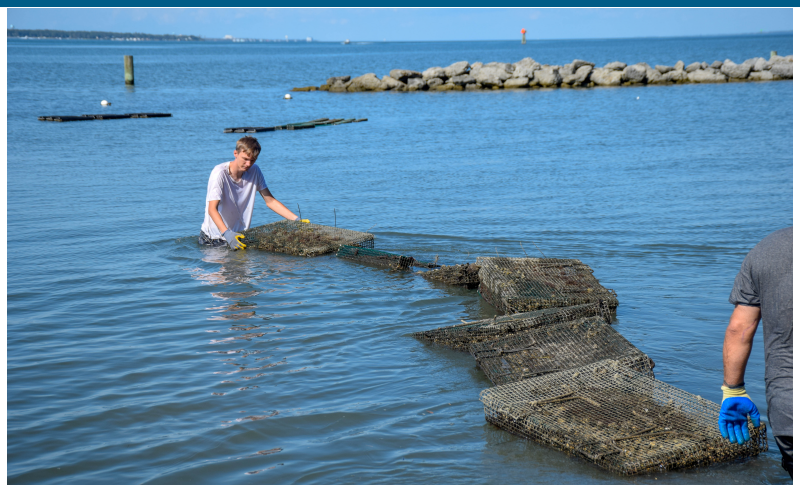
CARTERET COMMUNITY COLLEGE

AQUACULTURE TECHNOLOGY

ASSOCIATE IN APPLIED SCIENCE DEGREE

Work/Business Option



AQUACULTURE TECHNOLOGY
A.A.S. Degree
Work/Business Option

The Aquaculture Technology curriculum prepares individuals for careers in aquaculture and management of aquatic ecosystems. It provides a broad background in science and math as well as specialized course work and practical experience in fish, shellfish, and aquatic plant production and management.

Course work includes biology, chemistry, and math, as well as water quality and limnology, nutrition and feeding, genetics and breeding, facilities construction, and business. Students will spend time working in the industry through the cooperative work experience or conducting an individualized study through the aquaculture project.

Graduates may find employment on private farms and government hatcheries or at public aquariums. Graduates may also start new businesses in fish, shellfish, or aquatic plant farming; pond and lake management services; or home/office aquarium or water garden management services.

COURSE NUMBER/TITLE	CREDIT HOURS	SEMESTER OFFERED	ADVISING NOTES
GENERAL EDUCATION (3 credit hours required)			
ENG 111 Writing & Inquiry	3	FA, SP, SU	
COMMUNICATION (3 credit hours required)			
ENG 112 Writing/Research in Disc	3	FA, SP, SU	
ENG 114 Prof Research & Reporting	3	FA, SP	
HUMANITIES/FINE ARTS (3 credit hours required)			
ART 111 Art Appreciation	3	FA, SP, SU	
ART 114 Art History Survey I	3	FA, SP, SU	
ART 115 Art History Survey II	3	SP	
ENG 232 American Literature II	3	FA	
ENG 242 British Literature II	3	SP	
HUM 115 Critical Thinking	3	FA, SP, SU	
MUS 110 Music Appreciation	3	FA, SP, SU	
MUS 112 Introduction to Jazz	3	FA, SP	
PHI 240 Introduction to Ethics	3	FA, SP, SU	
SOCIAL/BEHAVIORAL SCIENCE (3 credit hours required)			
ECO 251 Prin of Microeconomics	3	FA	
ECO 252 Prin of Macroeconomics	3	SP	
GEO 111 World Regional Geography	3	FA, SP	
HIS 111 World Civilizations I	3	FA	
HIS 112 World Civilizations II	3	SP	
HIS 131 American History I	3	FA	
HIS 132 American History II	3	SP	
POL 120 American Government	3	FA, SP	
PSY 118 Interpersonal Psychology	3	SP	
PSY 150 General Psychology	3	FA, SP, SU	
SOC 210 Introduction to Sociology	3	FA, SP, SU	
MATH (at least 3 credit hours required)			
MAT 143 Quantitative Literacy	3	FA	
MAT 171 Precalculus Algebra	4	FA, SP	

FOR MORE INFORMATION CONTACT

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REV: 9/21/2022

AQUACULTURE TECHNOLOGY
ASSOCIATE IN APPLIED SCIENCE DEGREE
Work/Business Option Continued

COURSE NUMBER/TITLE	CREDIT HOURS	SEMESTER OFFERED	ADVISING NOTES
BIOLOGY /CHEMISTRY			
(4 credit hours required)			
CHM 131 Introduction to Chemistry AND	3	FA, SP, SU	
CHM 131A Intro to Chemistry Lab	1	FA, SP, SU	
CHM 151 General Chemistry	4	FA, SP	
(4 credit hours required)			
BIO 275 Microbiology	4	FA	Prereq: BIO 111
CHM 152 General Chemistry II	4	FA, SP	Prereq: CHM 151
MAJOR REQUIREMENTS (21 credit hours required)			
AQU 111 Aquaculture I	3	FA, SP	
AQU 220 Aquaculture Facilities	3	FA	
BIO 111 General Biology	4	FA, SP	
AQU 112 Aquaculture II	3	FA, SP	
AQU 120 Aquabusiness	3	FA	
BIO 243 Marine Biology	4	SP	Prereq: BIO 110 or BIO 111
AQU 280 Aquaculture Project	2	SU	Prereq: AQU 112
ADDITIONAL COURSES (12 credit hours required)			
AQU 230 Fish Genetics & Breeding	3	SP	Prereq: BIO 111
AQU 240 Fish Nutrition & Diseases	3	FA	Prereq: BIO 111
AQU 251 Hatchery Management I	3	FA	*
AQU 252 Hatchery Management II	3	SP	Prereq: AQU 251
CONCENTRATION REQUIREMENTS (5 credit hours required)			
AQU 180 Operational Diving	3		Prereq: Open Water SCUBA Cert
AQU 181 Operational Diving Skills	2		
OTHER MAJOR REQUIREMENTS (10 credit hours required)			
AQU 161 Aquaculture Practicum I	1	FA, SP	
AQU 162 Aquaculture Practicum II	1	FA, SP	
AQU 163 Aquaculture Practicum III	1	FA	
AQU 164 Aquaculture Practicum IV	1	FA	
AQU 165 Aquaculture Practicum V	1	SP	
AQU 166 Aquaculture Practicum VI	1	SP	
BIO 112 General Biology II	4	SP	
HOR 142 Fruit & Vegetable Prod	2	SP	
HOR 245 Hor Specialty Crops	3	SU	
OTHER REQUIREMENTS (1 credit hour required)			
ACA 122 College Transfer Success	1	FA, SP,SU	

*AQU 251 prereq: Take one set Set 1: BIO 111 and CHM 151 OR Set 2: BIO 111, CHM 131 and CHM 131A

ADDITIONAL NOTES: _____