Cobleskill

FISHERIES AND AQUACULTURE BT **COURSE SEQUENCE**

Freshman - F BIOL111 ENGL101 FWLD101 FWLD 112 MATH125 FFCS199	all Semester Biology I English Composition Intro. Natural Res. Conserv. Aquaculture Techniques Statistics Foundation for College Succes	4 3 3 1 3 s <u>1</u> 15	Junior - Fall S FWLD325 BIOL307 BIOL318 COMM301 MATH225	Aquaculture Engineering Invertebrate Zoology Fish Biology Technical Writing Statistical Methods	3 4 4 3 <u>3</u> 17	
Freshman - S BIOL131 FWLD115 CHEM111 CITA112	Pring Semester Nat. History of the Vertebrates Fisheries Techniques General Chemistry I Spreadsheet & Database Appl. General Electives	3 3 4 3	Junior - Sprin AGBU107 BADM315 FWLD330 FWLD440	g Semester Agricultural Business Oper. or Entrepreneurship Prod. Mariculture/Aquaculture Fisheries Research	3 3 3	
PHED151	Wellness	1 <u>1</u> 15	CHEM216	Water Chemistry General Electives	3 3 3 15	
Sophomore - Fall Semester			Senior - Fall Semester			
BIOL215 FWLD220 ORHT121 FWLD 209	Aquatic Ecology Wildlife Management Woody Plant Materials Fish Nutrition General Education Core General Education Core	3 3 1 3 3 3 16	FWLD430 FWLD350 FWLD351 BIOL415 FWLD400	Fish Hatchery Management Wetlands Assess. & Delineatior Wildlife Pol./Regulatory Compl. Marine Ecology Pond Management Physical Science Elective		
Sophomore - FWLD211 FWLD221 GIST130 FWLD 217	Spring Semester Wildlife Law & Public Relations Fisheries Science Geographic Infor. Systems Hatchery Techniques	3 3 1	Senior - Sprin FWLD451 FWLD421 ENVR350	Aquatic/Marine Res. Mgmt. Fisheries Management Environmental Law & Policy General Electives	3 3 3 2	

<u>3</u> 15

124 Credits

4

The first two years of the Fisheries & Aquaculture Program satisfies the requirements for the Fisheries & Wildlife Associates Degree in Applied Science.

General Education Core

General Education Core

All Fisheries & Aquaculture graduates qualify for certification by the American Fisheries Society as Fisheries Scientists.

Fisheries & Aquaculture graduates qualify for all NYSDEC technical and professional positions:

Physical Science Elective

Fish & Wildlife Tech-1 Fish & Wildlife Tech-2 Fish Culturist-1 Biologist - Ecology Biologist - Wildlife Biologist - Aquatic Biologist - Marine Forest Ranger-1 **ECO Trainee-1** Park Ranger

BT DEGREE IN FISHERIES & AQUACULTURE PROGRAM REQUIREMENTS

	-• -	62 Credits	LIBERAL ARTS & SCIENCES		
Upper/Lower-Division (GIST, AGBU, BA ENVR, AGRN, ORHT, BIOL or FWLD)		DM, CITA,	REQUIREMENTS		56 Credits
,			Communications		6 Credits
Fisheries Req		12 Credits	ENGL101	Composition	3
FWLD115	Fisheries Techniques	3	COMM301	Technical Writing	3
FWLD221	Fisheries Science	3		_	
FWLD440	Fisheries Research	3	Gen. Educati	ion Requirements	12 Credits
FWLD421	Fisheries Management	3	American His		7 categories.
			Arts	•	J
Aquaculture F		13 Credits	Foreign Lang	uage	
FWLD112	Aquaculture Techniques	1	Humanities	3.	
FWLD209	Fish Nutrition	1	Social Scienc	e (Recom: Intro. To Sustaina	ıbilitv)
FWLD217	Hatchery Techniques	1	Western Civili	•	······ · ,
FWLD330	Prod. Mariculture/Aquacultur	re 3	Civilization		
FWLD325	Aquaculture Engineering	3	•····		
FWLD400	Pond Management	1	Physical Edu	cation Requirements	1 Credit
FWLD430	Fish Hatchery Management	3	PHED151	Wellness	1
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Ecology Requ		13 Credits	Freshman O	rientation	1 Credit
BIOL215	Aquatic Ecology	3	FFCS199	Foundation for College Su	iccess 1
FWLD350	WetlandAssessment/Delinea	ation3		5	
BIOL415	Marine Ecology	4	Mathematics	Requirements	6 Credits
FWLD451	Aquatic/Marine Res. Mgmt.	3	MATH125	Statistics	3
Other Recom	mended Ecology Courses		MATH225	Statistical Methods OR	3
BIOL211	Terrestrial Ecology	3	MATH231	Calculus	4
BIOL212	Forest Ecology	3			
E14// E144	- 1 /A/ (C\A/ (C)	2			
FWLD320	Ecology/Mgmt of Waterfowl	3	Physical Scient	ences	15 Credits
FWLD320 BIOL308	Terristrial Invertebrate Ecolo		Physical Science Chemistry Ro		15 Credits
			Physical Science Chemistry Rough CHEM111	equirements	
BIOL308	Terristrial Invertebrate Ecolo		Chemistry R	equirements General Chemistry	15 Credits 4 3
BIOL308	Terristrial Invertebrate Ecolo Law Requirement	gy 3	Chemistry Ro CHEM111 CHEM216	equirements General Chemistry Water Chemistry	4 3
BIOL308 Conservation	Terristrial Invertebrate Ecolo Law Requirement	gy 3	Chemistry Ro CHEM111 CHEM216 Recommend	equirements General Chemistry Water Chemistry fed Physical Sciences Cour	4 3 rses
BIOL308 Conservation Recommende	Terristrial Invertebrate Ecolo Law Requirement d Courses	gy 3 6 Credits 2	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science	4 3 rses 3
Conservation Recommender FWLD211	Terristrial Invertebrate Ecolo Law Requirement d Courses Wildlife Law Enforcement	gy 3 6 Credits 2	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry	4 3 rses 3 4
Conservation Recommender FWLD211 FWLD351	Terristrial Invertebrate Ecolo Law Requirement d Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co	gy 3 6 Credits 2 pmpl 1	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry	4 3 r ses 3 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350	Terristrial Invertebrate Ecolo Law Requirement d Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co	gy 3 6 Credits 2 pmpl 1	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics	4 3 3 3 4 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350	Terristrial Invertebrate Ecolo Law Requirement ed Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy	gy 3 6 Credits 2 Dmpl 1 3	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111 PSCI102	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology	3 3 3 4 4 4 4 3
Conservation Recommende FWLD211 FWLD351 ENVR350 Natural Resou	Terristrial Invertebrate Ecolo Law Requirement d Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement	gy 3 6 Credits pmpl 1 3 9 Credits	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111 PSCI102 PSCI103	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology	3 rses 3 4 4 4 3 3
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour	Terristrial Invertebrate Ecolo Law Requirement ed Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons.	gy 3 6 Credits 2 pmpl 1 3 9 Credits	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111 PSCI102	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology	3 3 3 4 4 4 4 3
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121	Terristrial Invertebrate Ecolo Law Requirement ed Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111 PSCI102 PSCI103 PSCI101	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy	4 3 7 ses 3 4 4 4 3 3 3
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121	Law Requirement d Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3	Chemistry Ro CHEM111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111 PSCI102 PSCI103 PSCI101	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy	3 rses 3 4 4 4 3 3
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender	Law Requirement d Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Course	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 5es	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology	4 3 7ses 3 4 4 4 3 3 3 3 15 Credits
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Cours Ecological Restoration	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3 5ess 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra	4 3 7ses 3 4 4 4 3 3 3 3 3 15 Credits 4 ates 3
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Cours Ecological Restoration Conservation Biology	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3 5ess 3 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology	4 3 3 3 4 4 4 3 3 3 3 3 4 15 Credits 4 ates 3 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Conservation Environmental Law & Policy Arce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Course Ecological Restoration Conservation Biology Watershed Management	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3 5es 3 3 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology	4 3 3 3 4 4 4 3 3 3 3 3 3 4 4eates 3 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy Urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Cours Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3 5es 3 3 3	Chemistry Rochemistry Rochemis	General Chemistry Water Chemistry Water Chemistry Wed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy Equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology mended Biological Course	4 3 3 3 4 4 4 4 3 3 3 3 3 4 4 ates 3 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy Urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Cours Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation	gy 3 6 Credits 2 pmpl 1 3 9 Credits 3 3 3 5es 3 3 3 6 Credits	Chemistry Rochemistry Rochemis	General Chemistry Water Chemistry Water Chemistry Wed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy Equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology Immended Biological Course Genetics	4 3 3 3 4 4 4 3 3 3 3 3 3 4 ates 3 4 4 4 5
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121 Analytical Recommender Analytical Recommend	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy urce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials mended Conservation Cours Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 5es 3 3 6 Credits . 3	Chemistry Recommend AGSC111 CHEM216 Recommend AGSC111 CHEM112 CHEM231 PHYS111 PSCI102 PSCI103 PSCI101 Biological Residual BIOL111 BIOL131 BIOL307 BIOL318 Other Recommend BIOL105 BIOL300	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology mended Biological Course Genetics Principles of Parasitology	4 3 3 3 4 4 4 4 3 3 3 3 3 4 4 ates 3 4 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121 Analytical Record	Law Requirement Intro Natural Res. Cons. Wildlife Management Woody Plant Materials Mended Conservation Conservation Biology Watershed Management Soil & Water Conservation Quirement Spreadsheet Database Appl	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 5es 3 3 6 Credits . 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology mended Biological Course Genetics Principles of Parasitology Herpetology	4 3 7ses 3 4 4 4 3 3 3 3 3 3 15 Credits 4 ates 3 4 4 9s
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121 Analytical Record	Law Requirement Ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy Arce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials Mended Conservation Course Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation Quirement Spreadsheet Database Appl Geographic Information Sys	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 5es 3 3 6 Credits . 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology Inmended Biological Course Genetics Principles of Parasitology Herpetology Evolutionary Biology	4 3 3 5ses 3 4 4 4 3 3 3 3 3 4 4 4 4 9s 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121 Analytical Recommender CITA112 GIST130	Law Requirement Ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy Arce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials Mended Conservation Course Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation Quirement Spreadsheet Database Appl Geographic Information Sys	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 3 5ess 3 3 4 6 Credits 3 3 3 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology Immended Biological Course Genetics Principles of Parasitology Herpetology Evolutionary Biology Environmental Toxicology	4 3 3 4 4 4 4 3 3 3 3 3 4 4 4 4 4 4 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121 Analytical Recommender CITA112 GIST130 Business Recommender Business Recommender BIOL340 BIOL403 AGRN425 AGRN121	Law Requirement Ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Co Environmental Law & Policy Arce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials Mended Conservation Course Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation Quirement Spreadsheet Database Appl Geographic Information Sys	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 3 5ess 3 3 4 6 Credits 3 3 3 3	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry led Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology Inmended Biological Course Genetics Principles of Parasitology Herpetology Evolutionary Biology	4 3 3 5ses 3 4 4 4 3 3 3 3 3 4 4 4 4 9s 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4 4
Conservation Recommender FWLD211 FWLD351 ENVR350 Natural Resour FWLD101 FWLD220 ORHT121 Other Recommender BIOL340 BIOL403 AGRN425 AGRN121 Analytical Recommender CITA112 GIST130 Business Recommender	Law Requirement ad Courses Wildlife Law Enforcement Wildlife Policy/Regulatory Convert Environmental Law & Policy Arce Conser. Requirement Intro. Natural Res. Cons. Wildlife Management Woody Plant Materials Mended Conservation Course Ecological Restoration Conservation Biology Watershed Management Soil & Water Conservation Quirement Spreadsheet Database Appl Geographic Information Sys	gy 3 6 Credits 2 compl 1 3 9 Credits 3 3 3 5es 3 3 3 4 6 Credits 3 3 3 3 7 6 Credits 3 7 7 8 Credits	Chemistry Rochemistry Rochemis	equirements General Chemistry Water Chemistry Yed Physical Sciences Cour Intro. To Soil Science General Chemistry Organic Chemistry Physics Physical Geology Field Geology Astronomy equirements General Biology Natural History of Vertebra Invertebrate Zoology Fish Biology Immended Biological Course Genetics Principles of Parasitology Herpetology Evolutionary Biology Environmental Toxicology	4 3 3 4 4 4 4 3 3 3 3 3 4 4 4 4 4 4 4 4

GRAND TOTAL

124 Credits