

FISHERIES TECHNOLOGY - DEGREE

Associate of Applied Science Degree Program

Faculty Advisers

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This degree prepares students for careers in private, federal, or state sectors as fish culturists and/or fishery technicians. Students will learn hands-on skills through field projects and assist in running the campus fish hatchery. Students will also learn how to feed, spawn and transport fish, as well as about fish biology, fish husbandry, and fishery techniques.

Students must select Fisheries Technology as their major in order to enroll in the courses below. If you wish you change your major to Fisheries Technology, please email advising.questions@mhcc.edu or call 503-491-7315.

All core courses must be completed within 5 years in order for the degree to be awarded.

Program Outcomes

At the completion of this program, students should be able to:

- Develop and apply a variety of techniques commonly used to evaluate and manage fisheries in the Pacific Northwest
- Develop and apply basic fish husbandry principles employed in Pacific Northwest fish culture facilities to successfully raise a variety of aquatic species
- Design, conduct and present (written and oral) a fisheries-related research project
- Apply a variety of building and equipment maintenance techniques commonly employed at fish culture facilities
- Demonstrate and apply basic biological principles to the study of fish
- Demonstrate and apply basic statistical processes to the analysis of fisheries data
- Discuss current issues impacting the field of natural resources
- Conduct and record a stream survey in accordance with a standardized procedure

Chest waders and rain gear are required and must be purchased by the student. Students completing the program will usually assist in propagation and rearing of game and food fish. Because of the rigorous activity demanded by the work, good physical condition is a necessity.

General education courses (such as math, writing, health, etc.) can be taken during any term, or before starting the program.

WR227Z Technical Writing ★ is a corequisite for FI213 Field Projects III, so both should be taken during spring term the second year.

First Quarter

Fall		Credits
FI101	Fishery Techniques I	4
FI111	Fish Biology I	4
HPE120	Introduction to Navigation	1
CIS120L	Computer Concepts Lab I ★	1

MTH065 or MTH058	Beginning Algebra II ★ (or higher) or Quantitative Reasoning I	4-6
Credits		14-16

Second Quarter

Winter

FI102	Fishery Techniques II	4
FI112	Fish Biology II	4
BT210ZEA	Excel - Level I	1
WR121Z	Composition I ★	4
Human Relations requirement (https://catalog.mhcc.edu/degree-certificate-requirements/aas/#human)	PSY101 or PSY201Z recommended	3-4
Credits		16-17

Third Quarter

Spring

FI103	Fishery Techniques III	4
FI113	Fish Biology III	4
FI205	Fisheries Lab Techniques	2
PE185FSW	Swimming and Basic Water Safety (or any HE/HPE/PE185 course)	1
BT210ZAA	Access - Level I	1
COMM111Z	Public Speaking ★	4
Credits		16

Fourth Quarter

Fall

FI201	Fish Husbandry I	6
FI207	Fisheries Data Analysis Techniques	4
FI211	Field Projects I	2
FI241	Stream Habitat Assessment and Improvement	2
WE280FIB or WE280FIA or WE280FIC or WE280FID	Coop Ed-Fisheries (recommended) or Coop Ed-Fisheries or Coop Ed-Fisheries or Coop Ed-Fisheries	2
Credits		16

Fifth Quarter

Winter

FI202	Fish Husbandry II	6
FI212	Field Projects II	2
FI221	Building and Equipment Maintenance and Repair I	4
FI231	Current Issues/Natural Resources	1
FI250	Career Development in Fisheries	1
Credits		14

Sixth Quarter

Spring

FI203	Fish Husbandry III	3
FI213	Field Projects III	2

FI223 or WLD116	Fisheries Welding or General Welding I	2-3
FT228	Introduction to Geographic Information Systems	3
WR227Z	Technical Writing ★	4
Health and Physical Ed requirement (HPE285OL, HE251 or HE289 recommended) (https://catalog.mhcc.edu/degree-certificate-requirements/aas/#health) ¹		1
Credits		15-16
Total Credits		91-95

¹ Students must have current First Aid and CPR cards. HPE285OL Wilderness Survival, HE251 Wilderness First Aid and HE289 Wilderness First Responder offer certification in First Aid and CPR. Students may also contact the Red Cross or American Heart Association for training.

Suggested Electives

Code	Title	Credits
HD100A	College Success ★	1
HPE285OL	Wilderness Survival	3
HE289	Wilderness First Responder	4
HE251	Wilderness First Aid	2
NR242	Watershed Processes	3