College of Fisheries and Ocean Sciences

Explore beyond the shore

CFOS ACADEMIC PROGRAMS | UNIVERSITY OF ALASKA FAIRBANKS

PROGRAMS

Welcome to the College of Fisheries and Ocean Sciences at the University of Alaska Fairbanks. We pride ourselves on excellence in teaching, service, and research through a variety of academic programs. Find the one that suits you!

Minor in Fisheries or Minor in Marine Sciences

- 15 credit hours
- Provide strong backgrounds for careers in each field

Bachelor of Science in Fisheries and Marine Sciences

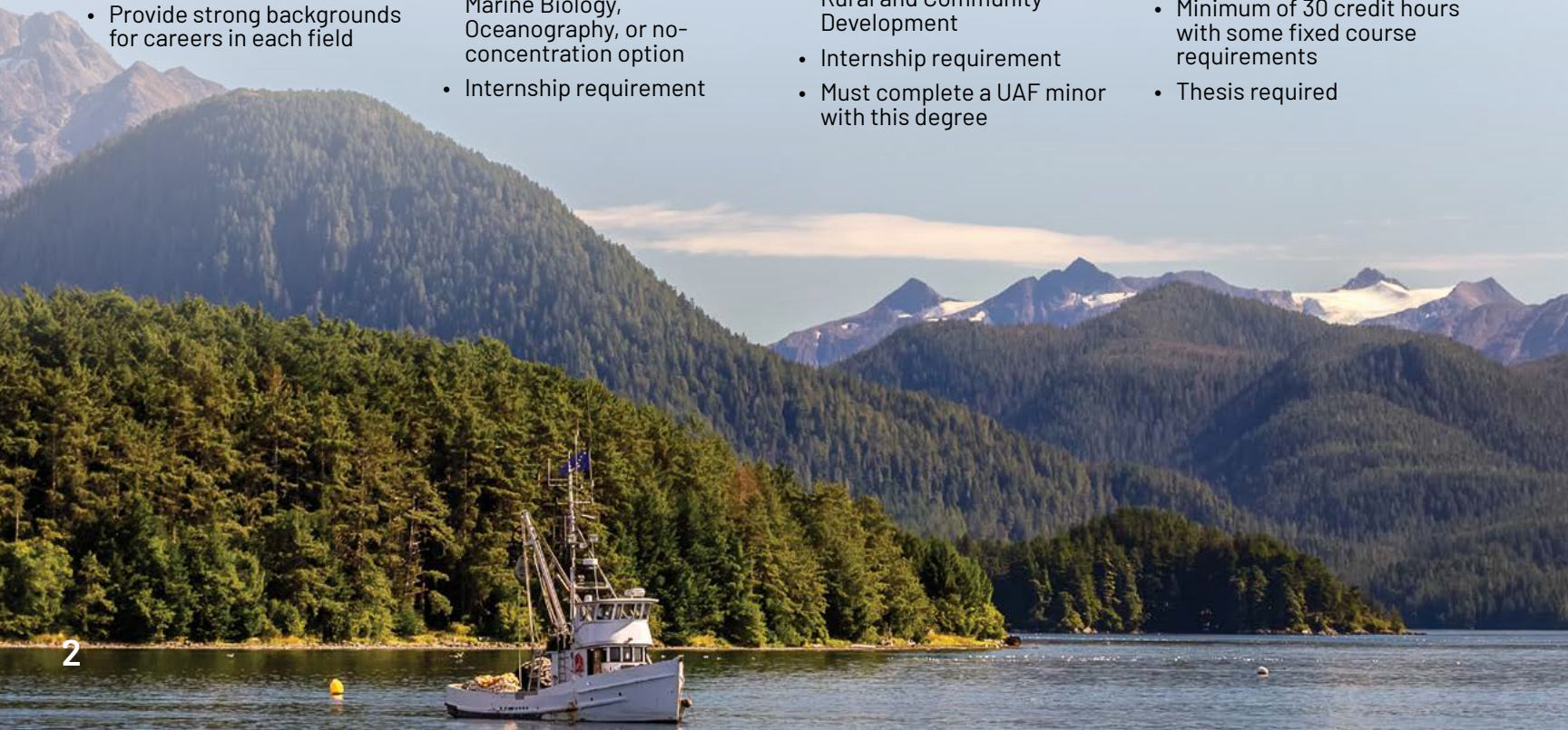
- **Concentrations:** Fisheries, Marine Biology, Oceanography, or no-concentration option
- Internship requirement

Bachelor of Arts in Fisheries

- **Concentrations:** Fisheries Business and Social Science, Rural and Community Development
- Internship requirement
- Must complete a UAF minor with this degree

Master of Science in Fisheries, Marine Biology, or Oceanography

- Minimum of 30 credit hours with some fixed course requirements
- Thesis required



Some of our programs and concentrations can be completed via distance or online. Please inquire for more details.

Master in Marine Studies

- 30 credit hours
- Broad scope focused on Marine Biology or Oceanography
- Final project or literature review required

Master of Marine Policy

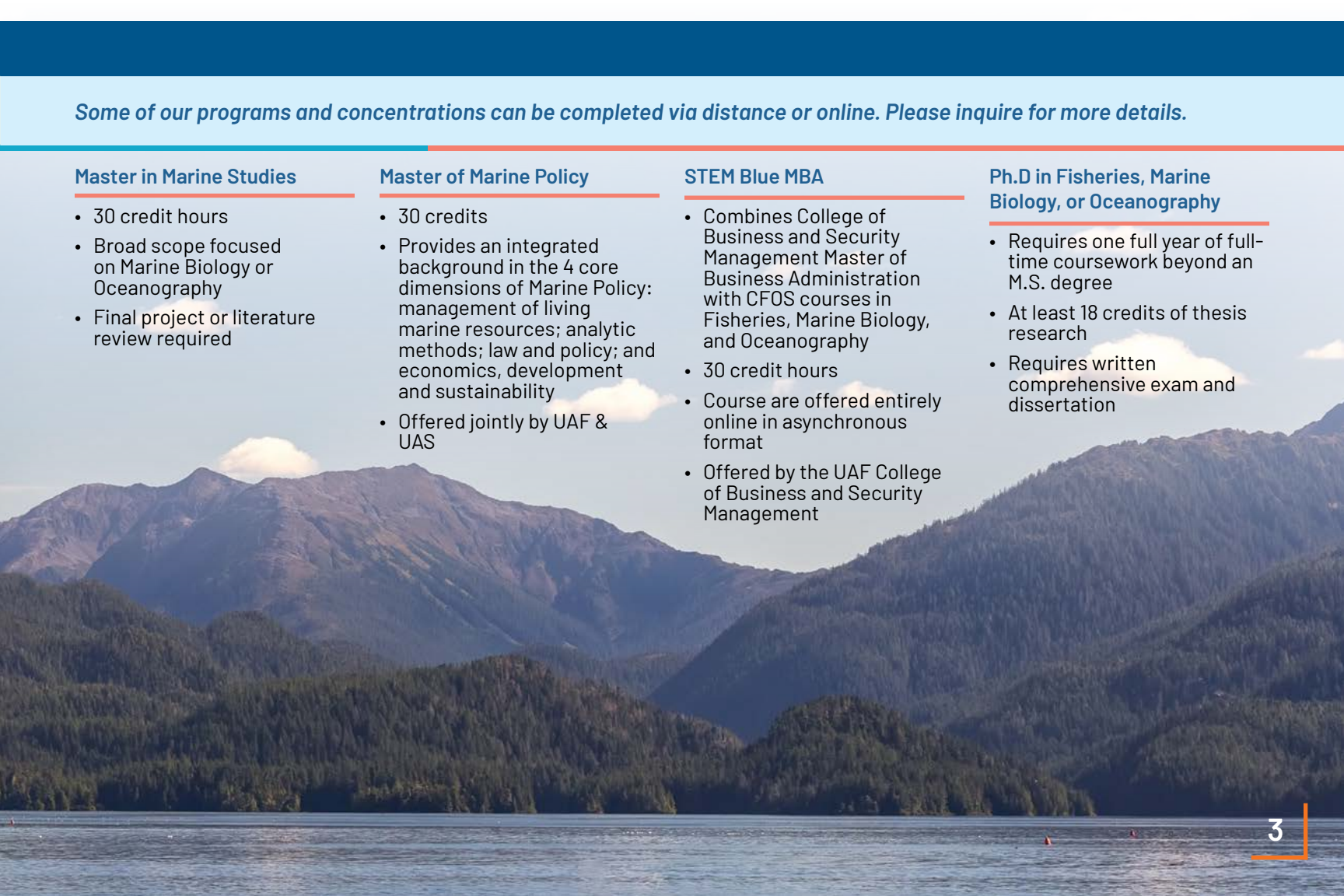
- 30 credits
- Provides an integrated background in the 4 core dimensions of Marine Policy: management of living marine resources; analytic methods; law and policy; and economics, development and sustainability
- Offered jointly by UAF & UAS

STEM Blue MBA

- Combines College of Business and Security Management Master of Business Administration with CFOS courses in Fisheries, Marine Biology, and Oceanography
- 30 credit hours
- Course are offered entirely online in asynchronous format
- Offered by the UAF College of Business and Security Management

Ph.D in Fisheries, Marine Biology, or Oceanography

- Requires one full year of full-time coursework beyond an M.S. degree
- At least 18 credits of thesis research
- Requires written comprehensive exam and dissertation



INTERNSHIPS

Photo by Lia Domke

Our Bachelor of Science in Fisheries and Marine Sciences and Bachelor of Arts in Fisheries both require an internship. Our interns are highly sought after and we will help you every step of the way in securing an internship that is right for you and your goals. The list of what you can do is expansive and the places you can go are global!

Places our students have interned:

Alaska Center for Energy and Power

Alaska Cooperative Fish and Wildlife Research Unit

Alaska Department of Fish and Game

Alaska Fisheries Science Center

Alaska Sealife Center

Aleutia

Bristol Bay Economic Development Corporation

Bristol Bay Science and Research Institute

Hydaburg Cooperative Association

Institute of Arctic Biology

Lake Clark National Park and Reserve

Metlakatla Indian Community Department of Fish and Wildlife

Montana Fish, Wildlife and Parks

National Park Service

Palau International Coral Reef Center

Sealaska

Southern Southeast Regional Aquaculture Association

UA Museum of the North

USDA Forest Service

Delving deep into science and solving real-world problems is at the heart of CFOS. As a CFOS student, you'll have plenty of opportunity to get involved in fascinating and ground-breaking research if you so desire.

Photo by Alice Bailey

Key: Publication Title

* Current or former CFOS graduate student
Δ Current or former CFOS affiliation

Aoki, L.R., B. Rappazzo, D.S. Beatty, ***L.K. Domke, Δ G.L. Eckert,** et al. 2022. Disease surveillance by artificial intelligence links eelgrass wasting disease to ocean warming across latitudes. Limnology and Oceanography. https://doi.org/10.1002/lno.12152

Boothman, W.S., L. Coiro, and Δ **S.B. Moran**. 2022. Molybdenum accumulation in sediments: A quantitative indicator of hypoxic water conditions in Narragansett Bay, RI. Estuarine, Coastal and Shelf Science. https://doi.org/10.1016/j.ecss.2022.107778.

Guo, C., Δ **B.H. Konar, Δ K.B. Gorman**, and C.M. Walker. 2022. Environmental factors important to high-latitude nearshore estuarine fish community structure. Deep Sea Research Part II: Topical Studies in Oceanography. https://doi.org/10.1016/j.dsr2.2022.105109

Δ Leppi, J.C., Δ J.A. Falke, D.J. Rinella, **Δ M.S. Wipfli, Δ A.C. Seitz**, and M.S. Whitman. 2022. Landscape geomorphology and local-riverine features influence Broad Whitefish (Coregonus nasus) spawning habitat suitability in Arctic Alaska. Ecology of Freshwater Fish. https://doi.org/10.1111/eff.12657.

*** Myers, H.J.**, D.W. Olsen, C.O. Matkin, **Δ L.A. Horstmann, and Δ B. Konar**. 2021. Passive acoustic monitoring of killer whales (Orcinus orca) reveals year-round distribution and residency patterns in the Gulf of Alaska. Scientific Reports. https://doi.org/10.1038/s41598-021-99668-0

Particulate trace metals in Arctic snow, sea ice, and underlying surface during the 2015 US Western Arctic GEOTRACES Cruise GN01—*** C. Bolt, Δ A. Aguilar-Islas**, and R. Rember

Δ Shi, Y., K.L. Bouska, G.J. McKinney, *** W. Dokai**, A. Bartels, **Δ M.V. McPhee**, and W.A. Larson. 2021. Gene flow influences the genomic architecture of local adaptation in six riverine fish species. Molecular Ecology. https://doi.org/10.1111/mec.16317

*** Sutton, L., Δ F.J. Mueter**, B.A. Bluhm, and **Δ K. Iken**. 2021. Environmental Filtering Influences Functional Community Assembly of Epibenthic Communities. Frontiers in Marine Science. https://doi.org/10.3389/fmars. 2021.736917

CAREER OUTLOOK

Just like our internships, our career outcomes are expansive. As a CFOS graduate, you will have the tools and skills necessary to dive headfirst into the workforce to find the career that is right for you!

Photo by Brenda Konar

Places our graduates have worked:

Alaska Department of Fish and Game
Alaska Fishing and Rafting Adventure
Alaska Native corporations
Alaska Native organizations
Alaska Native tribal governments
Colorado State University
Community development corporations
EMSL Analytical Inc.
Kenai Fjords Tours
LGL Alaska Research Associates
Montana Department of Fish, Wildlife and Parks
National Marine Fisheries Service
National Marine Mammal Laboratory
Northern Alaska Environmental Center
Seattle Aquarium
Sitka Marine Science Center
Southern Southeast Regional Aquaculture Assoc.
St. Louis Aquarium
Tribal fish commissions
United States Fish and Wildlife Service, Juneau
University of Alaska Anchorage

Positions our students have held:

Alaska Park Ranger
Animal Trainer
Chemical Analyst
Commercial Fisherman
Commercial Shellfish Biologist
Data Specialist
Fish Biologist
Fish Culturist
Fisheries Manager
Fisheries Policy Analyst
Fishing Guide
Habitat Biologist
Marine Science Instructor
Marine Science Interpreter
Outreach Coordinator
Postdoctoral Researcher
Program Director
Research Technician
Teaching Faculty
Technical Wetland Specialist
Technician
Wildlife Field Crew Leader

Photo courtesy of Elizabeth Mik' Lindley

UNDERGRADUATE

We would love to have you! Check out **uaf.edu/admissions/apply** to get started on an application.

GRADUATE

Head on over to **uaf.edu/cfos/academics/apply** to get started! There you will find the steps to follow to apply to both UAF and CFOS.

Want to learn more?

Go to uaf.edu/cfos for the most up-to-date news and information regarding all things CFOS!

COLLEGE OF FISHERIES AND OCEAN SCIENCES

University of Alaska Fairbanks

UAF College of Fisheries and Ocean Sciences
2150 Koyukuk Drive, 245 O'Neill Building
PO Box 757220, Fairbanks, AK 99775-7220
(907) 474-7210 | www.uaf.edu/cfos

@UAFcfos

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