



Program and Graduation Requirements

Students enrolled in the National Science Foundation sponsored Science Master's Program (SMP) in Sustainable Ecosystem-Based Management of Living Marine Resources (SELMR) are expected to complete: (1) UAF general and MS degree requirements; (2) specific degree requirements for the MS in Fisheries, Marine Biology, or Oceanography; and (3) SELMR program requirements. These requirements are summarized below; students are encouraged to consult the UAF catalog for updates and revisions of degree requirements.

UAF General and MS Degree Requirements

- Complete required forms
 - Submit Graduate Study Plan and Appointment of Committee forms (by end of first year)
 - Submit Report of Advisory Committee (annually by May 15)
 - Submit Advancement to Candidacy form after: (1) completion of at least 9 credits of graduate courses at UAF; (2) approval of thesis proposal and successful completion of comprehensive exams (for Marine Biology and Oceanography programs only); and (3) approval of GSP. Advancement to Candidacy forms are due by about February 15 for Spring graduation or about October 15 for Fall graduation.
 - Submit application for graduation—must be registered for at least 3 credits in graduation semester. (Due by about February 15 for Spring graduation or about October 15 for Fall graduation.)
- Maintain good standing
 - Register for at least 6 graduate (or 400-level) credits per year (or file a leave of absence)
 - Maintain a GPA above 3.0 (with a minimum grade of 3.0 in 400-level classes)
- [Complete thesis](#) (must be approved by Advisory Committee, Program Head, Dean, and Graduate Dean)
- Pass required comprehensive exams and thesis defense
- Complete a minimum of 30 credits
 - complete at least 21 600-level credits including at least 6 and no more than 12 thesis (699) credits
 - 100-, 200-, 300-, and 500-level credits cannot be applied towards MS degree requirements
- Complete degree requirements within 7-year time limit

Fisheries MS Degree Requirements

- Complete prerequisite/deficiency courses: calculus, elementary statistics, ichthyology or invertebrate zoology
- Complete UAF general and MS degree requirements
- Complete core course requirements
 - Regression and analysis of variance (STAT 401)
 - Quantitative methods in fisheries (FISH 421 or FISH 601 or FISH 621 or FISH 622)
 - Graduate seminars (e.g., FISH 692)—at least 2 credits
- Complete thesis
 - Thesis committee must include at least three members; the chair and at least one other committee member must hold Academic Rank, Special Academic Rank, or Emeritus status in the Fisheries Division. The committee chair must be tenured or eligible for tenure. Faculty from other universities and other professionals who are not employed by UAF may serve as either core or additional committee members on master's advisory committees, upon expressed approval by the Fisheries Division faculty.
 - pass thesis defense and oral exam
 - post-defense thesis must be submitted to Fisheries Division Academic Program Director not later than March 3 for Spring graduation or June 27 for Summer graduation or November 5 for Fall graduation.

Marine Biology MS Degree Requirements

- Complete UAF general and MS degree requirements
- Complete core course requirements
 - Marine Biology (MSL 610)
 - Physiology of Marine Organisms (MSL 615)
 - Biological Oceanography (MSL 650)
 - Marine Biology field course (MSL 651)
 - MSL seminars (MSL 692)—at least 3 credits
- Complete thesis
 - The advisory committee should include at least two SFOS faculty, and a SFOS faculty member should chair. The third member may be either SFOS or other UAF faculty. Emeritus faculty is considered the same as regular, tenure-track faculty, as long as they remain active in their research. Research faculty may chair or serve as committee members, as may adjunct faculty with at least 1/2-time appointments in SFOS. Affiliate faculty or faculty from outside UAF or nonfaculty (e.g. agency personnel) may serve as additional members beyond the 3 UAF faculty. Affiliate faculty cannot normally serve as a chair, but occasional exceptions are made with GPMSL faculty approval. All 3 required UAF committee members must have at least a M.S., although additional members with extensive, appropriate experience may not.
 - pass thesis defense and oral exam
 - post-defense thesis must be submitted to GPMSL Chair not later than March 3 for Spring graduation or June 27 for Summer graduation or November 5 for Fall graduation.

Oceanography MS Degree Requirements

- Complete UAF general and MS degree requirements
- Complete core course requirements
 - Physical Oceanography (MSL 620)
 - Geological Oceanography (MSL 630)
 - Biological Oceanography (MSL 650)
 - Chemical Oceanography (MSL 660)
 - MSL seminars (MSL 692)—at least 3 credits
- Complete concentration requirements: *Biological*, *Chemical*, *Geological*, and *Physical Oceanography* do not have unique concentration requirements; *Fisheries Oceanography* requires MSL 640.
- Pass comprehensive exam
- Complete thesis
 - The advisory committee should include at least two SFOS faculty, and a SFOS faculty member should chair. The third member may be either SFOS or other UAF faculty. Emeritus faculty is considered the same as regular, tenure-track faculty, as long as they remain active in their research. Research faculty may chair or serve as committee members, as may adjunct faculty with at least 1/2-time appointments in SFOS. Affiliate faculty or faculty from outside UAF or nonfaculty (e.g. agency personnel) may serve as additional members beyond the 3 UAF faculty. Affiliate faculty cannot normally serve as a chair, but occasional exceptions are made with GPMSL faculty approval. All 3 required UAF committee members must have at least a M.S., although additional members with extensive, appropriate experience may not.
 - pass thesis defense and oral exam
 - post-defense thesis must be submitted to GPMSL Chair not later than March 3 for Spring graduation or June 27 for Summer graduation or November 5 for Fall graduation.

SELMR Program Requirements

- Complete UAF and degree program (Fisheries or Marine Biology or Oceanography) MS degree requirements
- Complete core course requirements
 - FISH 693—Social, Oceanographic, and Ecological Perspectives in Marine Ecosystems (August 9-27, 2010 in Juneau.)
 - FISH 411—Human Dimensions of Environmental Systems **or** CCS 612—Traditional Ecological Knowledge **or** PADM 635—Natural Resource Policy
 - FISH 640—Management of Renewable Marine Resources **or** FISH 694—Bioeconomic Modeling and Fisheries Management
 - FISH 421—Fisheries Population Dynamics **or** FISH 622—Quantitative Fish Population Dynamics II (FISH 621—Estimation of Fish Abundance is prerequisite)
 - MSL 652—Marine Ecosystems or MSL 640—Fisheries Oceanography or MSL 610—Marine Biology
 - FISH 692—Innovative Approaches to Marine Ecosystems
- Engage with MESAS/SELMR faculty and students
 - attend the monthly MESAS/SELMR brown-bag professional development seminars
 - attend and presenting your research in the annual AFS student chapter symposium
 - attend and participate in the annual MESAS/SELMR retreat and forum;
- Complete a research or stewardship internship;
- Complete thesis
 - In addition to degree program specific requirements for the composition of graduate advisory committees, it is expected that each SELMR thesis advisory committee will include one suitably qualified outside (government, NGO, or other) professional.
 - The thesis project should reflect a multidisciplinary perspective.

Course Schedule (tentative)

	cr	Su10	F10	Sp11	Su11	F11	Sp12	Su12	F12	Sp13
FISH 411 Human Dimensions of Environmental Systems	3		X			X			X	
FISH 421 Fisheries Population Dynamics	4					X				
FISH 621 Estimation of Fish Abundance	3		X						X	
FISH 622 Population Dynamics II	3			X						X
FISH 640 Management of Renewable Marine Resources	3						X			
FISH 692 Innovative Approaches to Marine Ecosystems	2			X			X			X
FISH 693 Social, Oceanographic, & Ecological Perspectives in Marine Ecosystems	3	X			X			X		
FISH 694 Bioeconomic Modeling and Fishery Management	3			X			X			X
MSL 610 Marine Biology	3			X			X			X
MSL 615 Physiology of Marine Organisms	3									
MSL 620 Physical Oceanography	4		X			X			X	
MSL 630 Geological Oceanography	3			X			X			X
MSL 640 Fisheries Oceanography	4					X				
MSL 650 Biological Oceanography	3		X			X			X	
MSL 651 Marine Biology Field Course	4				X					
MSL 652 Marine Ecosystems	3		X			X			X	
MSL 660 Chemical Oceanography	3			X			X			X
MSL 692 Seminar	1		X	X		X	X		X	X
STAT 401 Regression and Analysis of Variance	4		X			X			X	
CCS 612 Traditional Ecological Knowledge	3			X			X			X

Suggested Electives

	cr	Su10	F10	Sp11	Su11	F11	Sp12	Su12	F12	Sp13
FISH 427 Ichthyology	4			X			X			X
FISH 630 Natural Resource Modeling	2		X							X
FISH 633 Pacific Salmon Life Histories	3		X						X	
FISH 693 Field Course in Salmon Management	4				X					
FISH 693 Political Ecology of the Oceans	3			X						
FISH 693 North Pacific Fishery Management Council: A Case Study	2	X			X			X		
FISH 694 Law and Fisheries	2		X						X	
FISH 694 Quantitative Analysis of Marine Policy Decisions	3					X				
STAT 611 Time Series	3					X				