

UW School of Aquatic and Fishery Sciences – Undergraduate Program

Minor in Aquatic Conservation and Ecology (ACE)

The SAFS minor is designed for students majoring in other departments who wish to understand aquatic ecosystems and the responsible use of aquatic resources.

The minor provides breadth to a degree and additional opportunities for employment or graduate careers. It is especially appropriate for students in Marine Biology, Oceanography, Environmental Science, Biology, and Environmental Studies.

Enrollment in the Minor

The minor is open to all UW students who have reached 45 credits. Contact your departmental adviser to declare a minor in Aquatic Conservation and Ecology.

Recommended Courses

Please pay attention to prerequisites and recommended courses for each of our classes. We recommend organic chemistry, biology (BIOL 180, 200, and 220), and pre-calculus.

Minor Requirements

The Aquatic Conservation and Ecology Minor requires a minimum of 26 credits, as follows:

NOTE: No more than 11 credits may overlap with student's major requirements – indicate whether course is being used for ACE minor, non-ACE major, or both.

- ☐ **Three courses from the following list** (two must be at the 300 level; 13–15cr):

COURSE	CREDITS	ACE MINOR ✓	NON-ACE MAJOR ✓
FISH 200 (3 or 5)			
FISH 230 (5)			
FISH 250 (5)			
FISH 312 (5)			
FISH 323 (5)			
FISH 340 or FISH 370 (5)			

- ☐ **One of the following** (5cr):

COURSE	CREDITS	ACE MINOR ✓	NON-ACE MAJOR ✓
Q SCI 381 (5)			
Q SCI 482 (5)			

- ☐ **Minimum of two 400-level FISH courses from the approved list** (8–10cr):

COURSE	CREDITS	ACE MINOR ✓	NON-ACE MAJOR ✓

- ☐ **Total Minor Credits** (minimum 26): _____ ☐ **Total Overlapping Credits** (≤ 11): _____

- ☐ **GPA Requirement: Minimum 2.00 cumulative GPA for UW courses used toward minor**

Questions about the minor may be emailed to the SAFS Adviser at safsadv@uw.edu.

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Upper-division elective courses

The following courses are approved to count toward the upper-division FISH course requirement. Other courses may be approved by petition. Course availability is subject to change without notice.

COURSE	CREDITS	QUARTER	PREREQUISITES
FHL 403: Novel Marine Ecosystems	5	Spr	
FISH 406: Parasite Ecology	5	Aut	BIOL 180
FISH 423: Aquatic Invasion Ecology	4	Aut	BIOL 180 or 462
FISH 425: Sustainable Aquaculture	4	Aut	Q SCI 381 or STAT 311
FISH 428: Stream & Watershed Restoration	5	Spr – alt. years	FISH 312, BIOL 356, or ESRM 304
FISH 429: Coastal Restoration Ecology	3	Win	FISH 312 or 323
FISH 431: Modeling of Complex Systems	4	Win	
FISH 437: Fisheries Oceanography	4	Aut	
FISH 444: Conservation Genetics	5	Win	FISH 340 or 370
FISH 447: Watershed Ecology & Management	5	Spr	BIOL 180, ESRM 201, or FISH 200
FISH 450: Salmonid Behavior & Life History	4	Aut	
FISH 454: Ecological Modeling	5	Win	Q SCI 292 or MATH 125; Q SCI 381 or STAT 311
FISH 458: Quantitative Conservation & Management	4	Spr	FISH 454
FISH 464: Arctic Marine Vertebrate Ecology	5	Win – alt. years	BIOL 180
FISH 470: Evolutionary Ecology of Marine Mammals	5	Spr	Q SCI 381 or STAT 311; FISH 250; FISH 290 or MARBIO 305
FISH 473: Limnology	3	Aut	BIOL 180
FISH 474: Limnology Lab	2	Aut	FISH/BIOL 473
FISH 478: Topics in Sustainable Fisheries	3	Win	
FISH 498: Internship/Experiential Learning	Variable*	Any	
FISH 499: Undergraduate Research	Variable*	Any	

* Maximum 3 total combined credits in FISH 498 & 499 applicable to ACE minor requirements