This worksheet is a great planning tool but all students interested in the AFS degree should meet with the adviser to discuss an individual course of study. Students in good academic standing may declare the AFS major at any time. Email safsadv@uw.edu for more information about the degree or to make an appointment to meet the adviser.

### UW School of Aquatic & Fishery Sciences BS Degree Requirements

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[AFS BS Rev.Jun-17ss]
# UW School of Aquatic and Fishery Sciences – Undergraduate Program

## AFS Degree Requirements – FISH Courses (45 credits, 2.0 Cumulative GPA)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Science Writing</strong> 3cr</td>
<td>FISH 290 (3) Scientific Writing &amp; Communication (AutWin)</td>
</tr>
<tr>
<td><strong>Career Prep</strong> 1cr</td>
<td>FISH 300 (1) Opportunities in Marine Sciences (Win)</td>
</tr>
<tr>
<td><strong>Natural History</strong> 2 courses, 10cr</td>
<td>FISH 311 (5) Biology of Fishes (Win)</td>
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<td>FISH 310 (5) Biology of Shellfish (Spr)</td>
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</tbody>
</table>

### Core Breadth* 3 courses, 15cr

*all Core count towards "W" requirement

Choose any three (5cr sections only – 3cr sections will not count for AFS requirements):

- FISH 312 (5) Fisheries Ecology (Spr) Pre-req: FISH 270 or BIOL 220
- FISH 323 (5) Conservations & Management of Aquatic Resources (Aut)
- FISH 324 (5) Aquatic Animal Physiology & Reproduction (Win) Pre-req: FISH 270 or BIOL 220
- FISH 340 (5) Genetics & Molecular Ecology (Aut) Pre-req: BIOL 200

### Upper Division FISH 400-level Electives 4 courses, min. 16cr

**NOTE:**
Courses and quarters offered are subject to change without notice

Choose any four (must total 16 credits):

- FISH 404 (5) Diseases of Aquatic Animals (Spr – even yrs)
- FISH 406 (5) Parasite Ecology (Aut) Pre-req: BIOL 180
- FISH 423 (4) Aquatic Invasion Ecology (Aut – odd yrs) Pre-req: BIOL 180 or BIOL 462
- FISH 424 (5) Biology & Culture of Aquatic Organisms (Spr – odd yrs)
- FISH 428 (5) Stream & Watershed Restoration (Spr – odd yrs) Pre-req: FISH 312
- FISH 437 (4) Fisheries Oceanography (Win)
- FISH 441 (3) Integrative Environmental Physiology (Spr)
- FISH 444 (5) Conservation Genetics (Win)
- FISH 447 (3) Watershed Ecology & Mgmt (Spr) Pre-req: BIOL 180, FISH 101, or ESRM 201
- FISH 448 (2) Watershed Ecology & Mgmt Lab (Spr) Pre-req: FISH 447, may be taken conc
- FISH 450 (3 or 5) Salmonid Behavior (Aut)
- FISH 452 (3) Marine Geospatial Information Science (Aut)
- FISH 454 (5) Ecological Modeling (Win)
- FISH 455 (3 or 5) Fish and Wildlife Toxicology (Win)
- FISH 458 (4) Modeling & Estimation in Conserv & Resource Mgmt (Spr) Rec: Knowledge of R Prog
- FISH 461 (4) Resource Economics for Mgmt & Policy (Aut) Pre-req: FISH 230, 3XX or ENVIR 235
- FISH 464 (4) Arctic Marine Vertebrate Ecology (Win – odd yrs) Pre-req: BIOL 180
- FISH 473 (3) Limnology (Aut) Pre-req: BIOL 180
- FISH 474 (2) Limnology Lab (Aut) Pre-req: FISH 473, may be taken concurrently
- FISH 475 (5) Marine Mammalogy (Spr)
- FISH 478 (3) Topics in Sustainable Fisheries (Win – odd years)
- FISH 489* (5) Peer Teaching (instructor permission)
- FISH 491* (12) Aquatic Ecological Research in Alaska (Sum – even yrs)
- FISH 492† (9) Ecology & Conservation of Marine Birds & Mammals (Sum FHL)
- FISH 497 (3-5) Special Topics (Qtr varies; not always applicable to requirement)
- FISH 498* (1-15) Internship/Experiential Learning
- FISH 499* (1-15) Research
- FISH 500-level – Grad level FISH courses may be applied by petition; see SAFS Adviser for more information. Registration in 500-level courses requires permission of instructor.

**EXCLUSIONS AND LIMITATIONS:**

*Maximum 5 credits in either of FISH 489 & FISH 491
†Maximum 3 credits applicable to AFS degree requirements; may petition for up to 5
* Maximum 3 total combined credits in FISH 498 & FISH 499

Excluded: FISH 453, 477, and all capstone credits are not applicable to 400-level elec requirement

## AFS Degree Requirements – Capstone Research (7 credits)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Courses</th>
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</thead>
<tbody>
<tr>
<td><strong>Capstone Research</strong> 3 courses, 7cr</td>
<td>FISH 493 Capstone Prep (AutWinSpr) Pre-req: FISH 290</td>
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<tr>
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<td>FISH 494 (3) Capstone Project I Pre-req: FISH 493, Q SCI 381</td>
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<td>FISH 495 (3) Capstone Project II Pre-req: FISH 494</td>
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