

June 7, 2011

Dean Lisa J. Graumlich
College of the Environment
Box 355679

Dear Lisa:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the a new continuation policy and revised program requirements for the Bachelor of Science degree in Aquatic and Fishery Sciences. A copy of the changes is attached.

I am writing to inform you that the School of Aquatic and Fishery Sciences is authorized to specify these requirements beginning summer quarter 2011.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,



Phyllis M. Wise
Interim President

Enclosure

cc: Ms. Lin Murdock (with enclosure)
Mr. Robert Corbett (with enclosure)
Dr. Deborah H. Wiegand (with enclosure)
Ms. Virjean Edwards (with enclosure FISH-20110412)



UNIVERSITY OF WASHINGTON
**CREATING AND CHANGING UNDERGRADUATE
 ACADEMIC PROGRAMS**

MAY 10 2011

After college/school/campus review, send a signed original and 8 copies to the Curriculum Office/FCAS, Box 355850.
 For information about when and how to use this form: <http://depts.washington.edu/uwcr/1503instructions.pdf>

| | | |
|--|---|-----------------------|
| College/Campus College of the Environment/Seattle | Department/Unit School of Aquatic and Fishery Sciences | Date 4/12/2011 |
|--|---|-----------------------|

- New Programs**
- Leading to a Bachelor of _____ in _____ degree.
 - Leading to a Bachelor of _____ degree with a major in _____.
 - Leading to a _____ Option within the existing major in _____.
 - Leading to a minor in _____.

- Changes to Existing Programs**
- New Admission Requirements for the Major in _____ within the Bachelor of _____.
 - Revised Admission Requirements for the Major in _____ within the Bachelor of _____.
 - Revised Program Requirements for the Major in Aquatic and Fishery Sciences within the Bachelor of Science.
 - Revised Requirements for the Option in _____ within the major in _____.
 - Revised Requirements for the Minor in _____.

- Other Changes**
- Change name of program from _____ to _____.
 - New or Revised Continuation Policy for Aquatic and Fishery Sciences.
 - Eliminate program in _____.

Proposed Effective Date: **Quarter:** Autumn Winter Spring Summer **Year: 20 11**

Contact Person: Lin Murdock Phone: 3-7457 Email: linm@uw.edu Box: 355020

EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE
 For new program, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. (Use additional pages if necessary).

See attached.

OTHER DEPARTMENTS AFFECTED
 List all departments/units/ or co-accredited programs affected by your new program or changes to your existing program and acquire the signature of the chair/director of each department/unit listed. Attach additional page(s) if necessary. *See online instructions.

| | | |
|------------------|-------------------------|-------|
| Department/Unit: | Chair/Program Director: | Date: |
| | | |
| Department/Unit: | Chair/Program Director: | Date: |
| | | |

Rationale for changes

The overall aim of our curriculum design is to ensure that students graduating from the School of Aquatic Sciences are educated across the field as a whole, while gaining sufficient depth and skills at the advanced levels. Our rationale is that future graduates will increasingly work in interdisciplinary groups, and should therefore gain sufficient expertise across the field. On the other hand, we also place a strong emphasis on subject knowledge and skill development. The proposed design is a balance between these goals.

The specific objectives;

1. Ensure sufficient breadth in our field by exposing students to the full range of foundational subjects.
2. Ensure depth and skill development by ensuring sufficient residency at the advanced 400 level subjects, and by minimizing the number of independent study credits that may be counted towards the degree
3. Reduce unnecessary overlap with College of Environment General Education requirements
4. Provide guidance on the relevant foundational science subjects
5. Provide guidance for satisfactory academic progress within the degree

Proposed changes

1. Remove “focus area” structure in the degree, which currently requires a flagship course at the 300 level and 12 additional credits in the focus area.

Sufficient education in the breadth in the field is best achieved at the 300 level, where the full range of subjects in the Aquatic and Fishery Sciences are offered. Taking a single flagship classes can be overly restrictive to students progressing to 400 level classes, since they are limited to a specific area.

2. Change requirements for number of classes at the 300 level.

The following are required; 310 Biology of Shellfishes, 311 Fish Biology and QSci 381 (Statistics). These classes provide the natural history and basic biology that form the basis of Aquatic Sciences. QSci 381 provides quantitative skills that are necessary for advancement in the degree.

We propose that students select three out of the following four classes: Fish 312, 323, 324, 340. This is a significant increase over the current requirement of one class. The classes encompass ecology, evolution, physiology and conservation and management. A survey of at least three courses will provide sufficient breadth while maintaining flexibility for students to pursue main interest areas.

3. Change requirements for the number of classes at the 400 level

Recommend four classes with a minimum of 16 credits. Rationale: it is necessary to seek a balance between the need to gain sufficient expertise in the field versus the need to graduate in time. We also noted that there were a number of 3 credit classes that are predominantly lecture-based. SAFS places a strong emphasis on “experiential learning” in labs. Therefore, the 16 credit requirement ensures sufficient time spent in lab classes:

4. Designate classes that can count towards 400 level credits.

- All Fish 400 level courses where SAFS is the responsible department
- A maximum of 3 credits of FISH 498, 499 (all independent study/research/internship).
- FISH 452 (Spatial IT) will count but not 453 (both courses are administered by Oceanography; the latter is a “special topics” course).
- QSci 482 will be counted for non-QSci minors only
- Students may petition for the following to be counted: Fish 479 Research in Marine Biology; Fish 492 Friday Harbor Labs, maximum of 3 credits

5. Remove Ecology requirement

The College requires “additional natural world” requirements in addition to SAFS requirements. Removing ecology from our degree allows students greater choice in this additional subject area – and allows them flexibility for choosing other biological subjects (for example, evolution, physiology or natural history) or related subjects in the physical or quantitative sciences.

6. Change requirements for Physics and “Physical World” subjects

One quarter of Physics 114 and two quarters from the following list of classes; Physics 115, Physics 116; Ocean 210 (3) Ocean circulation; Fish 330 (5) Climate Change Impacts on Marine Ecosystems; Geog 205 (5) Intro to Physical Sciences and the Environment; Atm S 211 (5) Climate and Climate Change; Ocean/ESS 230 (3/5) Rivers and Beaches; ESS/ENVIR 315 (5) Environmental Earth Science.

Rationale: most students in our degree would benefit more from exposure to applied subjects in the physical sciences. This list provides flexibility for students to study either the physics subjects or to focus on subjects relevant to the Ocean and Atmospheric Sciences.

7. Recommended classes for Chemistry

We recommend Chem 120 OR Chem 142, and Chem 220 (required for entry into Biology 200). We do not recommend Chem 152 because it is less relevant for our majors (focused on energy, quantum mechanics and atomic theory).

8. Establish clear criteria for satisfactory progress within the degree

Please see attached document outlining our policies.

CURRENT UW Catalog Copy for B.S. Requirements in the School of Aquatic and Fishery Sciences:

Bachelor of Science

Suggested First- and Second-Year College Courses: ~~Calculus and a chemistry series the first year along with English composition and Fish 250 and/or Fish 101. The biology series, Q SCI 381 and Fish 310 and/or Fish 311~~ along with other courses to meet the college general education requirements during the second year. Students should start the FISH core courses as soon as the Biology series has been completed.

Department Admission Requirements (same)

Graduation Requirements

180 credits. Students must complete the College of the Environment General Education AND the Aquatic and Fishery Sciences Major requirements outlined below. Many courses may overlap in both categories unless otherwise noted. The balance of the 180 credits will be general electives.

1. *General Education Requirements (85 credits)* These requirements may and do overlap with the major requirements unless noted otherwise:
 - a. *Written Communication (15 credits):* 5 credits English composition (ENGL 131 preferred); and ten additional credits, which are often satisfied by departmental courses shown below.
 - b. *Quantitative and Symbolic Reasoning (10 credits):* met by departmental requirements below.
 - c. *Natural World (20 credits):* 10 of these credits must be taken “out-of-major,” which is defined as courses that neither count toward the major requirements below nor have the prefix of the department from which the student is earning their degree (this includes co-listed courses.)
 - d. *Visual, Literary, & Performing Arts (VLPA) (10 credits):* may overlap with major requirements. No specific courses required.
 - e. *Individuals & Societies (I&S) (20 credits):* 10 of these credits must be taken “out-of-major,” which is defined as courses that neither count toward the major requirements below nor have the prefix of the department from which the student is earning their degree (this includes co-listed courses.)
 - f. *Additional Areas of Knowledge (10 credits.)*

2. *Aquatic and Fishery Sciences Major Requirements:*
 - a. *Foundational Courses (54+ credits):* MATH 124 and 125 or Q SCI 291 and Q SCI 292; Q SCI 381; CHEM 120/220/221 or CHEM 142/452/462 and 220; BIOL

180/200/220; PHYS 114/115; a course counting for "3rd Physical World" and "Ecology" requirements. See adviser or website for acceptable courses in these categories.

- b. ~~Core Courses (10 credits): FISH 310 and FISH 311.~~
- e. ~~Flagship Course (5 credit min.): FISH 312 or FISH 323 or FISH 324.~~
- d. ~~Upper division FISH Electives (Minimum 23 credits) of 300- or 400-level courses from within the School of Aquatic and Fishery Sciences for the major; 12 such credits must count toward the focus area which the student is planning to complete. See departmental website for more description of the focus areas and which courses count in each.~~
- e. ~~Capstone (7-13 credits): FISH 493 and FISH 494 and FISH 495.~~

3. ~~Free electives: As needed to bring minimum total to 180 credits.~~

Proposed UW Catalog Copy for B.S. Requirements in the School of Aquatic and Fishery Sciences (with changes):

Bachelor of Science

Suggested First- and Second-Year College Courses: Recommended classes for first year students; English composition, calculus, Chem 120 or 142 and 220, Biol 180 and Fish 250 and/or Fish 101. Recommended classes for second year students; Biol 200 and 220, Q SCI 381 and Fish 310 and / or Fish 311 and any additional courses that meet the college general education requirements. Students should start the FISH core courses as soon as they meet the appropriate prerequisites.

Department Admission Requirements (no changes from current catalog copy)

Graduation Requirements

180 credits. Students must complete the College of the Environment General Education AND the Aquatic and Fishery Sciences Major requirements outlined below. Many courses may overlap in both categories unless otherwise noted. All courses taken to meet the degree requirements outlined below may not be taken as satisfactory/not satisfactory. The balance of the 180 credits will be general electives.

1. ***General Education Requirements (85 credits)*** These requirements may and do overlap with the major requirements unless noted otherwise:
 - a. ***Written Communication (15 credits):*** 5 credits English composition (ENGL 131 preferred); and ten additional credits, which are satisfied by departmental courses shown below.
 - b. ***Quantitative and Symbolic Reasoning (10 credits):*** met by departmental requirements below.
 - c. ***Natural World (20 credits):*** 10 of these credits must be taken “out-of-major,” defined as courses that neither count toward the major requirements defined below nor have the prefix of the department from which the student is earning their degree (this definition includes co-listed courses.)
 - d. ***Visual, Literary, & Performing Arts (VLPA) (10 credits):*** may overlap with major requirements. No specific courses required.
 - e. ***Individuals & Societies (I&S) (20 credits):*** 10 of these credits must be taken “out-of-major,” defined as courses that neither count toward the major requirements defined below nor have the prefix of the department from which the student is earning their degree (this definition includes co-listed courses.)
 - f. ***Additional Areas of Knowledge (10 credits.)***

2. Aquatic and Fishery Sciences Major Requirements:

- a. **Foundational Courses (50+ credits):** MATH 124 and 125 or Q SCI 291 and Q SCI 292; Q SCI 381; CHEM 120/220 or Chem 142/220; BIOL 180/200/220; PHYS 114 or 121; two courses counting for “Physical World” requirement. See adviser or website for acceptable courses in this category.
- b. **Natural History Courses (10 credits):** FISH 310 and FISH 311.
- c. **Core Courses (15 credit min.):** FISH 312; FISH 323; FISH 324; FISH 340.
- d. **400 level FISH Electives (Minimum 16 credits, 4 courses) of 400-level courses from within the School of Aquatic and Fishery Sciences for the major.**
- e. **Capstone (7-13credits):** FISH 493 and FISH 494 and FISH 495.

3. GPA requirement – 2.0 average cumulative GPA in all courses used in each of the following categories: Natural History, Core Courses, and 400-level electives.

SAFS Satisfactory Progress Policy for the Aquatic and Fishery Sciences Major

This document specifies the criteria for satisfactory progress in the Bachelor of Science degree program in Aquatic and Fishery Sciences. While the University has regulations governing scholastic eligibility for continuance¹, the School of Aquatic and Fishery Sciences seeks additional requirements to ensure academic success. The following criteria apply to all students in the degree program; students will be evaluated quarterly after declaring the AFS major. Students are encouraged to frequently review their academic progress and may request an evaluation from the Office of Student Services at any time.

Criteria for Satisfactory Progress:

1. Academic progress towards the attainment of the AFS degree.

Academic progress is evidenced by the following:

- At least 50% of credits a student registers for in a given quarter should count toward the student's declared major(s) and minor(s), including general education requirements.
- ~~No more than one course repeat, one course drop between weeks 3-7 (excluding hardship withdrawals), three incompletes, or one withdrawal from a quarter of courses per academic year.~~

Deleted: <#>Completion of more than 50% of credits in a given quarter or quarters that count toward the student's declared major(s) and minor(s). ¶

2. Students must earn a 2.0 AVERAGE GPA in all courses that are used to meet the following requirements:

- Natural History (FISH 310 and 311)
- Core Courses (three of the following four courses - FISH 312, 323, 324, 340)
- 400-level FISH electives (min. 16 credits, 4 courses)

3. Students must maintain a minimum quarterly GPA of 2.00.

4. Students must maintain a minimum cumulative GPA of 2.00, and thereby avoid appearing on the University's Low Scholarship list².

Conditions Warranting Recommendation to Alter a Student's Standing:

The Office of Student Services will review the performance of undergraduate students after each quarter. If a student fails to meet any or all of the criteria for satisfactory progress outlined above (items 1-4) in any quarter in the program, the following actions will be taken:

Warning

A warning will be issued to AFS majors who do not meet the above criteria for satisfactory progress in the program via email. Students who receive a warning are required to meet with an adviser to discuss any difficulties impacting the student's academic performance, and seek to resolve any problems and develop a written plan for improvement. The adviser is thus able to assist the student by recommending either support services or appropriate actions that may be

taken to adjust the student's transcript and schedule, and help the student return to a good academic standing in the department. Warning status will continue as long as the student is making progress toward meeting criteria above (e.g., raising GPA, using support services, registering for classes required for the degree).

Probation for the Major

At the end of any quarter, a student may be placed on probation if:

- He or she fails to meet the criteria for satisfactory progress for two quarters and has not responded to a warning (above.)
- He or she responds to a warning but does not make progress towards meeting the satisfactory progress criteria.

The student will receive an email from the Student Services Coordinator notifying him or her of probationary status and that he or she has had a registration hold placed on his or her account. To remove the registration hold, the student will need to meet with an adviser by the end of the third week of the following quarter to create an educational plan. Students on probation may NOT ask to meet with an adviser to remove the hold immediately before or during priority 1 registration (this meeting must take place during the first three weeks of the probation quarter.) Students are strongly advised to discuss with the Office of Student Services any special circumstances that may be affecting their academic performance so that these matters may be taken into consideration and timely assistance may be provided. Probation may be continued for more than one quarter while the student is making positive progress toward meeting satisfactory progress criteria (e.g., raising GPA, using support services, registering for classes required for the degree). If a student continues to fail to make progress, the student will be **Dismissed from the Major**.

Dismissal from the Major

The student may be dismissed from the AFS major if, while on probation, he or she fails to communicate with the Office of Student Services and does not meet satisfactory progress criteria OR if he or she communicates with Office of Students Services but does not make progress on meeting the criteria. The student will be notified in writing of the change in major status, and transferred to a pre-major or extended pre-major status.

Return to good academic standing

A student's record will be deemed to be in good academic standing when the criteria for satisfactory progress outlined above have been met, or when the student has successfully petitioned for an exception based on extenuating circumstances.

Appeal Procedures

A student who has been placed on probation or has been dismissed from the major, and believes that some facts in the documentation have been overlooked or misinterpreted, may request

reconsideration of the probation or dismissal from the major by writing a letter to the Student Services Coordinator of the School of Aquatic and Fishery Sciences. The letter should include any additional or relevant information that supports the student's appeal. In general, appeals to alter the student's status without clarification of the initial documentation, or evidence of new or additional information, will not be considered. The appeal must be made **within 30 days** of the notification of placement on probation or dismissal from the major. The letter and supporting material will be transferred to the SAFS Curriculum Committee Chair, who will carefully review all the available information and make a recommendation to the Director on whether or not academic probation or dismissal is appropriate and upheld or if probation should be extended for another quarter. The Director (or his/her designee) will respond to the appeal within 30 days.

Footnotes

1. Available on the web are the University's Satisfactory Progress and Low Scholarship policies.
2. Item 4 comes from the University policy on Low Scholarship.

Jennifer A. Payne

From: Lin Murdock [linm@u.washington.edu]
Sent: Friday, May 20, 2011 4:08 PM
To: Matthew S. Winslow; Jennifer A. Payne
Subject: RE: FISH 1503

Actually, what we were looking for is that, if they took 3 courses, 2 of them would be used for something on a DARS audit (their gen ed, or declared majors or minors), not just general electives that don't count toward anything specific they need for their degree (so on DARS they'd appear at the bottom as just general electives).

Completing courses that they register for (which sounds like it was your interpretation) would be part of the second criteria under that same point:

- No more than one course repeat, one course drop between weeks 3-7 (excluding hardship withdrawals), three incompletes, or one withdrawal from a quarter of courses per academic year.

If I were to re-write the 50% criteria, I would say:

- At least 50% of credits a student registers for in a given quarter should count toward the student's declared major(s) and minor(s), including general education requirements.

You're right – using the word “completion” in that criteria confused the issue.

Does that make more sense?
Lin

Lin Murdock
Student Services Coordinator
School of Aquatic and Fishery Sciences

From: Matthew S. Winslow [mailto:mwinslow@u.washington.edu]
Sent: Friday, May 20, 2011 3:59 PM
To: Lin Murdock; Jennifer A. Payne
Subject: RE: FISH 1503

Lin,

For question 2, what's really wanted is -- what does it mean??? We had a few diff't interpretations at SCAP, so they just wanted clarification. Can you re-word what's on the form?

(My take was that for each quarter, students must complete at least half of the courses they took toward the major that quarter.)

Matthew Winslow mwinslow@u.washington.edu
University of Washington
Acting Associate Registrar, Scheduling and Information Management and System Support Services
Box 355850
206-543-0991

"There's nothing you can't prove if your outlook is only sufficiently limited."
-- Dorothy L. Sayers

6/7/2011

Jennifer A. Payne

From: Lin Murdock [linm@u.washington.edu]
Sent: Friday, May 20, 2011 3:48 PM
To: Jennifer A. Payne
Cc: Matthew S. Winslow
Subject: RE: FISH 1503

Hi Jennifer and Matt –
 Some responses –

- 1) How do students get off of warning and probation status?

Students would get off warning and probation status by either meeting the criteria for sat progress or petitioning for an exception and being granted that exception (the paragraph titled “Return to good academic standing” refers not just to the dismissal section of the policy but also to the warning and probation sections.) Did you mean how would we inform them? I guess we could send them an email/letter, but I see the warning and probation placement would be a quarterly assessment, like it is with the university gpa sat progress system (students get told at the end of the quarter if they are descending into the next level of unsatisfactory progress – those students aren’t told when they’re off warning/probation – they just are if they’re in compliance.) I could certainly see sending them notification when they are off warning/probation if you think that’s the best way to do it.

If you can give me an example of the type of thing you’re looking for, I’m sure we’d do whatever other departments have found works.

- 2) What is the intent of the 50% completion requirement?

Basically, this is to make sure students are making progress toward the degree. I would include in this 50% the CoENV general education requirements as well, so it probably wouldn’t effect anyone until they were at least junior status. I’ve had ghost majors hide in my major taking all communication (or other competitive major classes) so they don’t get caught by the satisfactory progress holds that pre-majors and extended premajors get – with no intention of completing an AFS major at all. If they come in and talk and have a viable reason for taking excessive non-major courses (which could be the desire to declare a double major or degree), we would grant the exception as long as it’s a reasonable plan for them (if there’s no way they’d be a viable candidate for that major and they’ve already gotten rejected twice, then it’s a chance for some serious advising.) We feel that if a student has no intention of completing a specific major, then they need to be coded to reflect their accurate status.

Please tell me if that addresses your concerns....

Lin

Lin Murdock
 Student Services Coordinator

6/7/2011

School of Aquatic and Fishery Sciences

From: Jennifer A. Payne [mailto:jap2@u.washington.edu]

Sent: Friday, May 20, 2011 3:29 PM

To: Lin Murdock

Subject: FISH 1503

Lin,

SCAP wanted me to clarify two issues with the continuation policy.

- 3) How do students get off of warning and probation status?
- 4) What is the intent of the 50% completion requirement?

P.S. Please cc Matt Winslow on your response - I am on vacation next week.

Jennifer