



HUMBOLDT STATE UNIVERSITY

Department of Forestry and Wildland Resources

To: Forestry Students

From: Chris Edgar, Chair Department of Forestry and Wildland Resources Curriculum Committee

Date: March 11, 2009

RE: Summary of Changes to the Forestry Curriculum Effective Academic Year 2009-2010

Forestry will migrate to a new curriculum beginning in Academic Year 2009-2010. The faculty of the Department of Forestry and Wildland Resources are excited about the new curriculum, which we feel further strengthens our already high-quality program. New contracts are available in the Department Office (FR 205) and on-line at the following website:

http://www.humboldt.edu/~fwr/programs/forestry_options.html

Many current students will have to make a choice to either adopt the new curriculum or stay on the old curriculum. The AIR Center (826-4101) can assist you in determining the catalog years (and thus curriculum) available to you. The general policy is excerpted here for your information:

A student's catalog rights are based on when and where you begin college and how long you have been "continuously enrolled." Students who have been enrolled either at a California Community College or a CSU campus for at least one semester or two quarters of consecutive calendar years are considered to be "in continuous attendance". A student in continuous attendance may choose to meet the requirements for graduation specified in the Humboldt State University catalog which was/is in effect:

- when the student first enrolled in any CSU or California community college,
- when the student first enrolled at Humboldt, or
- when the student graduates.

Of course, the decision of which curriculum to adopt is entirely yours. The information provided in this document will assist you in making this important decision. It is the opinion of the faculty that students planning to graduate in Academic Year 2009-2010 stay under the old curriculum and that students planning to graduate in Academic Year 2010-2011 or later switch to the new curriculum. Regardless of what you decide, you can feel confident that you are receiving a high quality education aimed at preparing you for a successful career in forestry and natural resources.

Changes to the Lower Division Core

The lower division core is strengthened by the addition of a course on forest operations, separation of forest health and wildland fire into different classes, and the addition of a departmental seminar.

- The new course Introduction to Forest Operations (FOR 250) is added to the lower division core. The importance of forest operations in non-commodity areas of forestry is rapidly expanding. In

wildland fire, mechanized equipment is being used to treat forest fuels. In forest conservation, forest roads are being decommissioned. FOR 250 is added to the forestry core in recognition of the need for all forestry students to be familiar with the basics of forest operations. FOR 250 is 3 units with 2 hours of lecture and 3 hours of lab per week.

- Forest Health and Protection (FOR 220) is replaced by Forest Health and Protection (FOR 222) and Introduction to Wildland Fire (FOR 223). Forest health and wildland fire are increasingly important, necessitating the increase in units from 4 to 5. Separating the wildland fire component from the forest health and protection component will enable community college transfers with a fire suppression class to receive credit for FOR 223. FOR 222 is 3 units with 2 hours of lecture and 3 hours of lab per week. FOR 223 is 2 units with 1 hour of lecture and 3 hours of lab per week.
- Department Seminar (FOR 285) is added to the lower division core. Topics are to rotate between general forestry, soils, watershed, and fire. Seminar is to include presentations by speakers from the campus community, practicing professional, or scientists from other institutions. The seminar can be used to teach certain learning outcomes, such as public presentation, earlier so that students are able to perform at a high level at the time they take Capstone. FOR 285 is 1 unit.

Changes to the Upper Division Core

The upper division core is strengthened by the addition of a course on rangeland resource principles and a 1-unit course on professional forestry ethics.

- Students are required to take Rangeland Resource Principles (RRS 306). Introduction to Fishery Biology (FISH 300) or Wildlife Ecology and Management (WLDF 300) may be substituted for RRS 306. Please note that these courses also satisfy Upper Division General Education Area B.
- Professional Forestry Ethics (FOR 470) is required. The course Ethics in Forestry (FOR 400), which is now titled Forestry in Modern Society, is not required in the new curriculum.

Changes to Capstone

Capstone has undergone significant changes. Forestry Capstone (FOR 479) and Forest Hydrology Capstone (WSHD 479) are replaced by option-specific Capstones. The option-specific Capstones are paired with a senior-level course to provide a culminating experience unique to each option.

Option	Culminating Experience (Capstone)
Forest Production Management	Forest Management & Decision Making (FOR 475, 3 units) and Forest Production Management Capstone (FOR 478, 1 unit)
Forest Resource Conservation	Forest Ecosystems (FOR 430, 3 units) and Resource Conservation Capstone (FOR 433, 1 unit)
Forest Hydrology	Watershed Hydrology (WSHD 424, 3 units) and Forest Hydrology Capstone (WSHD 425, 1 unit)
Wildland Fire Management	Wildland Fuels Management (FOR 423, 3 units) and Wildland Fire Management Capstone (FOR 425, 1 unit)
Forest Soils	Forest and Range Soils (SOIL 460, 3 units) and Forest Soils Capstone (SOIL 461, 1 unit)

Changes to Forest Hydrology Option-Specific Courses

Forest Hydrology has undergone several important changes, most notably a reduction in the number of courses required and a change to Capstone.

- The addition of Introduction to Forest Operations (FOR 250) to the lower division core means that Road Location and Design (FOR 343) is no longer required.
- Financial Forest Administration (FOR 365) is no longer required.
- Forest Hydrology Seminar (WSHD 485) is replaced with Department Seminar (FOR 285) in the lower division core.
- Wildland Hydrology and Watershed Management II (WHSD 410) is retitled and renumbered. The new title and number are Watershed Hydrology (WHSD 424). The number of units is reduced from 4 to 3 units.
- Forest Hydrology Capstone (WSHD 479) is replaced by the paired courses Watershed Hydrology (WSHD 424) and Forestry Hydrology Capstone (WSHD 425)

Changes to Forest Production Management Option-Specific Courses

Forest Production Management has undergone several important changes, most notably a reduction in the number of technical electives, the addition of a new course, and a change in Capstone.

- Forest production classes are undergoing number changes so that the sequence of courses is more straightforward (FOR 250 -> FOR 350 and FOR 353 -> FOR 450).
 - FOR 343 is now FOR 353
 - FOR 444 is now FOR 450
- The number of units in Harvesting Systems Design and Cost Analysis (FOR 450) is reduced by 1 from 4 to 3 units. The addition of the new course FOR 250 Forest Operations to the core means less material needs to be covered in FOR 450.
- The course Forest Management and Decision Making (FOR 475), which was part of the Management Option prior to the merger of Production and Management, is reactivated and added to the option.
- Forestry Capstone (FOR 479) is replaced by the paired courses Forest Management and Decision Making (FOR 475) and Forest Production Management Capstone (FOR 478)
- The number of technical electives is reduced by 5, from 8 to 3 units.

Changes to Forest Resource Conservation Option-Specific Courses

Forest Resource Conservation has undergone several important changes, most notably a reduction in the number of technical electives, the addition of a new course, and a change in Capstone.

- Climate Change and Land Use (WSHD 458) is added to the curriculum.
- Students have the option of taking Forest Restoration (FOR 431) in place of Wilderness Area Management (FOR 374).
- Forestry Capstone (FOR 479) is replaced by the paired courses Forest Ecosystems (FOR 430) and Forest Resource Conservation Capstone (FOR 433)
- The number of technical electives is reduced by 8, from 12 to 4 units.

Changes to Forest Soils Option-Specific Courses

Forest Soils has undergone several important changes, most notably the addition of Capstone and technical electives requirement.

- Forest Soils Capstone (SOIL 461) is added to the curriculum where it will be paired with the Forest Range and Soils (SOIL 460) to give a culminating experience for the option.
- Four units of technical electives are now required.

Changes to Wildland Fire Management Option-Specific Courses

Wildland Fire Management has undergone several important changes, most notably elimination of one course, addition of several new courses, a reduction in the number of technical electives, and a change in Capstone.

- Courses Rangeland Ecology Principles (RRS 370) and Forest Restoration (FOR 431) are added to the curriculum.
- Wildland Fire Use (FOR 422) is no longer required. Material taught in the class will now be taught in the course Introduction to Wildland Fire (FOR 223) and Wildland Fire Behavior and Use (FOR 323)
- The number of units in Wildland Fire Behavior and Use (FOR 323) is increased by 1 from 3 to 4 units in recognition of the addition of material formally covered in FOR 422. The title is changed to reflect changes in course content.
- Forestry Capstone (FOR 479) is replaced by the paired courses Wildland Fuels Management (FOR 423) and Wildland Fire Management Capstone (FOR 425)
- Wildland Fire Seminar (FOR 424) is replaced with Department Seminar (FOR 285) in the lower division core.
- The number of technical electives is reduced by 8, from 12 to 4 units.

Information on Course Substitutions

Several courses in the old curriculum will no longer be offered. Students deciding to stay under the old curriculum should work with their advisor to find suitable course substitutions. The following are offered as guidelines:

Lower Division Core Courses

FOR 220 Substitute FOR 222 and FOR 223

Upper Division Core Courses

FOR 400 Substitute FOR 470

Forest Production Management Option-Specific Courses

FOR 343 Substitute FOR 353

FOR 444 Substitute FOR 450

FOR 479 Substitute FOR 475 and FOR 478

Forest Hydrology Option-Specific Courses

FOR 343	Substitute FOR 250 or FOR 353
WSHD 485	Substitute FOR 285
WSHD 410	Substitute WSHD 424
WSHD 479	Substitute WSHD 425

Forest Resource Conservation Option-Specific Courses

FOR 479	Substitute FOR 433
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Forest Soils Option-Specific Courses

NA

Wildland Fire Management Option-Specific Courses

FOR 422	Substitute FOR 430 or FOR 431
FOR 424	Substitute FOR 285
FOR 479	Substitute FOR 425

Information on Frequency of Course Offerings

When a course is offered depends on a variety of factors, including course demand, faculty availability, classroom and laboratory availability, and budgets. As these factors vary semester to semester, we cannot say definitively when a course will and won't be taught. For each course taught in the department (FOR, WSHD, SOIL, RRS), I list when I think it will be offered. This schedule is tentative and subject to change for the reasons already given.

Lower Division Core Courses

FOR 116	Fall and Spring
FOR 210	Fall and Spring
FOR 216	Fall
FOR 222	Fall
FOR 223	Spring
FOR 230	Fall
FOR 231	Spring
FOR 250	Spring
FOR 285	Fall and Spring
SOIL 260	Fall and Spring

Remaining courses in the lower division core are scheduled by other departments

Upper Division Core Courses

FOR 311	Fall (this is a change from recent years)
FOR 331	Spring (this is a change from recent years)
FOR 432	Fall (this is a change from recent years)
FOR 470	Spring
FOR 471	Fall
WSHD 310	Fall and Spring
RRS 306	Fall

Remaining courses in the upper division core are scheduled by other departments

Forest Hydrology Option-Specific Courses

WSHD 424 Spring (odd years)

WSHD 425 Spring

SOIL 467 Spring (even years)

Remaining option-specific courses are scheduled by other departments

Forest Production Management Option-Specific Courses

FOR 350 Fall (even years)

FOR 353 Fall

FOR 365 Spring

FOR 450 Fall (odd years)

FOR 475 Spring (odd years)

FOR 478 Spring

Forest Resource Conservation Option-Specific Courses

FOR 321 Spring

FOR 374 Fall

FOR 431 Spring (even years)

FOR 365 Spring

FOR 430 Fall Semester in 2009-2010, Spring thereafter

FOR 433 Spring

WSHD 458 Fall (next offering 2010)

Wildland Fire Management Option-Specific Courses

FOR 321 Spring

FOR 323 Fall

FOR 423 Spring

FOR 425 Spring

FOR 431 Spring (even years)

RRS 370 Fall

Forest Soils Option-Specific Courses

SOIL 360 Fall

SOIL 363 Spring

SOIL 460 Spring

SOIL 461 Spring

SOIL 462 Spring (odd years)

SOIL 465 Spring (odd years)

SOIL 467 Spring (even years)