



# The University of Georgia

University Council  
Athens, Georgia 30602

March 26, 2010

## UNIVERSITY CURRICULUM COMMITTEE – 2009-2010

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Graduate Student Representative – Lauren King

Dear Colleagues:

The attached proposal for an Area of Emphasis in Pre-Veterinary Medicine under the major in Fisheries and Wildlife (B.S.F.R.) will be an agenda item for the April 2, 2010, Full University Curriculum Committee meeting.

Sincerely,

David E. Shipley, Chair  
University Curriculum Committee

cc: Professor Jere W. Morehead  
Dr. Laura D. Jolly



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The University of Georgia

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Daniel B. Warnell School of Forestry and Natural Resources  
*Associate Dean for Academic Affairs*

**TO:** Dr. Jere Morehead  
Senior Vice President for Academic Affairs and Provost

**FROM:** Sarah F. Covert  
Associate Dean for Academic Affairs

**DATE:** March 14, 2010

**SUBJECT:** Proposal to create a pre-veterinary medicine area of emphasis in the fisheries and wildlife major

The pre-veterinary medicine area of emphasis within the fisheries and wildlife major in the Warnell School of Forestry and Natural Resources was designed in cooperation with the College of Veterinary Medicine. It integrates wildlife biology and management with the basic biological and physical sciences necessary for admission to the Doctor of Veterinary Medicine (DVM) Program. It also meets the coursework requirements for certification as an Associate Wildlife Biologist by The Wildlife Society ([www.wildlife.org](http://www.wildlife.org)).

Students who complete a Bachelor of Science in Forest Resources (B.S.F.R.) with the pre-veterinary area of emphasis as well as a DVM degree will be uniquely qualified for jobs that require the integration of veterinary medicine and wildlife management. There are three increasingly important areas in which students with this unique training could work: wildlife-human health issues, wildlife/domestic-animal/human health issues, and the ecology of wildlife diseases.

Currently, students completing the fisheries and wildlife major must chose one of two existing areas of emphasis, (1) aquatic sciences or (2) wildlife sciences, in order to complete their degree. Students within wildlife sciences may also choose to follow a pre-veterinary advising program, if their ultimate goal is to attend veterinary school. This arrangement has proven to be slightly misleading and confusing, so this proposal seeks to convert the pre-veterinary advising program into a third area of emphasis within the fisheries and wildlife major. Specific reasons for this request:

- The requirements for completing the pre-veterinary advising program are different, not just in addition to, the requirements for the wildlife sciences area of emphasis.
- A student's program of study would be more accurately represented on their transcript because "pre-veterinary medicine" would appear as their area of emphasis, instead of "wildlife sciences".
- It would improve the clarity and completeness of our degree program information in the UGA Bulletin, as well as our in-house advising materials, for the fisheries and wildlife major; i.e. all degree requirements would be included in the Bulletin and all options

within the major would be of the same type. Currently the requirements for the pre-veterinary advising program do not appear in the Bulletin.

- It would simplify the tracking of students, i.e. students would be pursuing a pre-veterinary medicine area of emphasis in the fisheries & wildlife major, rather than a wildlife sciences area of emphasis with a pre-vet advisory track in the fisheries & wildlife major.

This new area of emphasis was approved by the Warnell School Curriculum Committee on January 14, 2010.

Detailed descriptions of the fisheries and wildlife major requirements and area of emphasis requirements are attached.

## PROPOSAL FOR PRE-VETERINARY MEDICINE AREA OF EMPHASIS

**School:** Warnell School of Forestry and Natural Resources

**Department/Division:** N/A

**Major:** Fisheries and Wildlife

There are two existing areas of emphasis within this major: aquatic sciences and wildlife sciences. One of the two must be chosen to complete the major. The pre-veterinary medicine area of emphasis would create a third option within the major.

**Major Requirements:** Attached as a copy from the on-line *Bulletin*.

**Area of Emphasis Title** (as it will appear in the *Bulletin*): Pre-veterinary medicine

### Pre-veterinary Medicine Area of Emphasis Description:

Course ID	Course Title	Hours
FORS 3010-3010L	Dendrology	3
WILD 4040-4040L or WILD 4050-4050L or WILD 4060-4060L	Herpetology or Mammalogy or Ornithology	4 3 4
WILD 4700-4700L	Techniques in Wildlife Population Management	3
BCMB 3100	Biochemistry	3
WILD 5100	Wildlife Disease Ecology and Management	3
<b>Restricted Electives:</b>	Choose from the categories below	11-12*
<b>Veterinary Elective (select one course)</b>		
FANR 4350	Conservation Genetics	3
WILD 4040-4040L	Herpetology ( <i>if not taken above</i> )	4
WILD 4050-4050L	Mammalogy ( <i>if not taken above</i> )	3
WILD 4400	Wildlife Physiology and Nutrition	3
WILD 5330-5330L	Wildlife Management in Agricultural Ecosystems	3
<i>In the following two categories, either WILD 5330 or FANR 4350 must be taken for one of the categories, even if either were completed in the Vet Elective category above. For example, if FANR 4350 was taken for the Vet Elective category, then WILD 5330-5330L must be taken for the Habitat elective below.</i>		
<b>Habitat (select two courses)</b>		
FISH 4310-4310L	Limnology	4
FORS 4010	Silviculture	4
WASR 4400-4400L	Introduction to Wetlands	3
WILD 5330-5330L	Wildlife Management and Agriculture	3
WILD 4000-4000L	Management of Wildlife Habitat	4
<b>Population (select one course)</b>		
FANR 4350	Conservation Genetics	3
WILD 4500	Nongame and Endangered Species Management	3
WILD 4900-4900L	Wildlife Damage Management	3
WILD 5700-5700L	Applied Population Dynamics	3

\* Total hours for Area of Emphasis and Restricted Electives must equal 31.

Entrance requirements for the pre-veterinary medicine area of emphasis will be identical to those for all other pre-professional students entering the Warnell School, with one exception: PHYS 1111 (or 1211), or PHYS 1112 (or 1212) can be used in place of MATH 2200. In addition, students that intend to apply to veterinary school will be advised to take the following courses, which are not required for the fisheries and wildlife major, as part of their pre-professional coursework because they will be required for admission to veterinary school:

PHYS 1111-1111L      Introductory Physics I  
Or PHYS 1211-1211L    Introductory Physics for Science and Engineering Students I

PHYS 1112            Introductory Physics II  
Or PHYS 1212-1212L    Introductory Physics for Science and Engineering Students II

CHEM 2211      Modern Organic Chemistry I  
CHEM 2211L    Modern Organic Chemistry Lab I  
CHEM 2212      Modern Organic Chemistry II  
CHEM 2212L    Modern Organic Chemistry Lab II

**Signatures:**

  
\_\_\_\_\_  
School Curriculum Committee Chair      Warnell School      3/15/10  
School      Date

  
\_\_\_\_\_  
Associate Dean for Academic Affairs      Warnell School      3/15/10  
School      Date

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University Curriculum Committee Chair      Date

## Fisheries and Wildlife - B.S.F.R.

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### DEGREE REQUIREMENTS

[Entrance Requirements for the Major](#)

**General Education Core Curriculum**  
(Selected with the advice of an academic advisor)

Areas [I](#) [II](#) [III](#) [IV](#) [V](#)

[Area VI](#)

[Major Requirements](#)

*College-wide Requirements must be satisfied in order to graduate with this major*

**TOTAL DEGREE HOURS** 123 hours

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Basic View 

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### I. FOUNDATION COURSES (9 HOURS)

[ENGL 1101](#)

[ENGL 1102](#) or [ENGL 1102E](#) or [ENGL 1102M](#) or [ENGL 1050H](#) or [ENGL 1060H](#)

[MATH 1113](#) or [MATH 2200](#) or [MATH 2250](#) or [MATH 2300H](#) or [MATH 2400](#) or [MATH 2400H](#) or [MATH 2410](#) or [MATH 2410H](#)

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### II. SCIENCES (7-8 HOURS)

At least one of the physical science or life science courses must include a laboratory.

Physical Sciences (3-4 hours)

Preferred Course(s): [CHEM 1211](#) and [CHEM 1211L](#)

Life Sciences (3-4 hours)

Preferred Course(s): [BIOL 1107-1107L](#)

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### III. QUANTITATIVE REASONING (3-4 HOURS)

Preferred Course(s): [MATH 2200](#) or [MATH 2250](#)

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### IV. WORLD LANGUAGES AND CULTURE, HUMANITIES AND THE ARTS (12 HOURS)

**World Languages and Culture (9 hours)**

No preferred courses for this area. See Core Curriculum view.

**Humanities and the Arts (3 hours)**

No preferred courses for this area. See Core Curriculum view.

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## V. SOCIAL SCIENCES (9 HOURS)

- Students who have not met the Georgia and U.S. Constitution requirement by examination should enroll in [POLS 1101](#).
- A passing grade on an examination on the history of the United States and Georgia is required to satisfy the United States and Georgia History Requirement for all persons receiving a baccalaureate degree from the University, unless exempted by one of the following courses: [HIST 2111](#), [HIST 2112](#). Examinations are given to freshmen during orientation and twice each semester by the History Department. Reexamination is permitted. Examination dates are announced in the *Schedule of Classes*.

**Preferred Course(s):** [ECON 2106](#) and [POLS 1101](#)

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### Area VI

[BIOL 1108-1108L](#)

[CHEM 1212](#), [CHEM 1212L](#)

[SPCM 1100](#)

[STAT 2000](#)

Select one course with approval from academic advisor.

\* If any course in Area VI above has been used to satisfy other area of the core curriculum, general electives may be taken here (refer to college-wide requirements when selecting general electives).

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## MAJOR REQUIREMENTS

A baccalaureate degree program must require at least 21 semester hours of upper division courses in the major field and at least 39 semester hours of upper division work overall.

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### Required Courses (63 hours)

#### Warnell School Core courses (25 hours)

[CRSS\(FANR\) 3060-3060L](#)

[FANR 3000-3000L](#)

[FANR 3200-3200L](#)

[FANR 3300-3300D](#)

[FANR 3400-3400D](#)

[FANR 3800-3800L](#)

[FANR 4500](#) or [FANR 4600](#)

[FANR 4800/6800](#)

#### Fisheries and Wildlife Requirements (7 hours)

[WILD\(FISH\) 3000](#)

[WILD\(ECOL\) 3580-3580L](#)

Choose an Area of Emphasis in Aquatic Sciences or an Area of Emphasis in Wildlife Sciences below:

#### Aquatic Sciences Area of Emphasis (31 hours)

[ECOL 4050/6050-4050L/6050L](#)

[ECOL 4070/6070-4070L/6070L](#)

[ECOL\(FISH\)\(WASR\) 4310/6310-4310L/6310L](#)

[FISH\(ECOL\)\(MARS\)\(WILD\) 4300/6300](#)

[FISH 5360/7360](#), [FISH 5360L/7360L](#)

Choose a total of 12 hours of Aquatic Sciences Electives from the categories below:

Specialized Topics

Select one course (3-4 hours) from the following:

[ENTO\(EHSC\) 4060/6060](#)

[FANR 4350/6350](#)

[WILD 5700/7700-5700L/7700L](#)

Wildlife

Select one course (3-4 hours) from the following:

[BIOL\(WILD\) 3700](#)

[WILD 4000/6000-4000L/6000L](#)

[WILD\(ECOL\) 4040/6040-4040L/6040L](#)

[WILD\(BIOL\) 4050/6050-4050L/6050L](#)

[WILD 4060/6060-4060L/6060L](#)

[WILD 4400/6400](#)

[WILD 4500/6500](#)

[WILD 4700/6700-4700L/6700L](#)

[WILD 4900/6900-4900L/6900L](#)

[WILD\(POPH\) 5100/7100](#)

[WILD\(CRSS\) 5330/7330-5330L/7330L](#)

Restricted Elective

Select remaining hours from electives approved by an advisor.

**Wildlife Sciences Area of Emphasis (31 hours)**

[FORS 3010-3010L](#)

[WILD 4000/6000-4000L/6000L](#)

[WILD\(ECOL\) 4040/6040-4040L/6040L](#) or [WILD\(BIOL\) 4050/6050-4050L/6050L](#) or [WILD 4060/6060-4060L/6060L](#)

[WILD 4700/6700-4700L/6700L](#)

Choose a total of 17-18 hours of Wildlife Sciences Electives from the categories below:

Wildlife Biology

Select one course (3-4 hours) from the following:

[BIOL\(WILD\) 3700](#)

[WILD\(ECOL\) 4040/6040-4040L/6040L](#)

[WILD\(BIOL\) 4050/6050-4050L/6050L](#)

[WILD 4060/6060-4060L/6060L](#)

Habitat

Select one course (3-4 hours) from the following:

[ECOL\(FISH\)\(WASR\) 4310/6310-4310L/6310L](#)

[FORS 4010-4010L](#)

[WASR 4400-4400L](#)

[WILD\(CRSS\) 5330/7330-5330L/7330L](#)

Population

Select one course (3 hours) from the following:

[FANR 4350/6350](#)

[WILD 4500/6500](#)

[WILD 4900/6900-4900L/6900L](#)

[WILD 5700/7700-5700L/7700L](#)



Field Experience

Select one course (2-3 hours)\* from the following:

FANR 3900

FANR 3910\*\*

FORS 5610/7610

WILD(POPH) 4600/6600

Any Warnell School Study Abroad/Field Study Course\*\*\*

\* If a 2-hour course is selected in Field Experience, then a 4-hour course is required for another restricted elective.

\*\* No more than 3 hours of FANR 3910 may count towards graduation.

\*\*\* Some Study Abroad/Field Study courses may include: FANR(ANTH)(ECOL)(GEOG)(INTL)(RLST) 4271/6271, FANR(MARS) 4272/6272, FORS(ECOL)(GEOG) 4250/6250, FORS(CRSS)(ECOL)(ANTH) 4760, RLST(FORS)(ANTH) 4270/6270, WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L/6700L, WILD 4280/6280, WILD(ECOL) 4575/6575-4575L/6575L, WILD 5200/7200

Fisheries

Select once course (3-4 hours) from the following:

FISH(ECOL)(MARS)(WILD) 4300/6300

FISH 5360/7360

Restricted Elective

Select remaining hours from electives approved by an advisor

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(This total does not include the 1-hour P.E. requirement)

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