March 26, 2010

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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
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).

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 in 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:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORS 3010-3010L</td>
<td>Dendrology</td>
<td>3</td>
</tr>
<tr>
<td>WILD 4040-4040L or</td>
<td>Herpetology or</td>
<td>4</td>
</tr>
<tr>
<td>WILD 4050-4050L or</td>
<td>Mammalogy or</td>
<td>3</td>
</tr>
<tr>
<td>WILD 4060-4060L</td>
<td>Ornithology</td>
<td>4</td>
</tr>
<tr>
<td>WILD 4700-4700L</td>
<td>Techniques in Wildlife Population Management</td>
<td>3</td>
</tr>
<tr>
<td>BCMB 3100</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>WILD 5100</td>
<td>Wildlife Disease Ecology and Management</td>
<td>3</td>
</tr>
<tr>
<td>Restricted Electives:</td>
<td>Choose from the categories below</td>
<td>11-12*</td>
</tr>
</tbody>
</table>

Veterinary Elective (select one course)
- FANR 4350 Conservation Genetics 3
- WILD 4040-4040L Herpetology (if not taken above) 4
- WILD 4050-4050L Mammalogy (if not taken above) 3
- WILD 4400 Wildlife Physiology and Nutrition 3
- WILD 5330-5330L Wildlife Management in Agricultural Ecosystems 3

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.

Habitat (select two courses)
- 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

Population (select one course)
- 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:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1111-1111L</td>
<td>Introductory Physics I</td>
</tr>
<tr>
<td>Or PHYS 1211-1211L</td>
<td>Introductory Physics for Science and Engineering Students I</td>
</tr>
<tr>
<td>PHYS 1112</td>
<td>Introductory Physics II</td>
</tr>
<tr>
<td>Or PHYS 1212-1212L</td>
<td>Introductory Physics for Science and Engineering Students II</td>
</tr>
<tr>
<td>CHEM 2211</td>
<td>Modern Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 2211L</td>
<td>Modern Organic Chemistry Lab I</td>
</tr>
<tr>
<td>CHEM 2212</td>
<td>Modern Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 2212L</td>
<td>Modern Organic Chemistry Lab II</td>
</tr>
</tbody>
</table>

Signatures:

School Curriculum Committee Chair

Warnell School

School

Date

3/15/10

Associate Dean for Academic Affairs

Warnell School

School

Date

3/15/10

University Curriculum Committee Chair

Date
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

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

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

III. QUANTITATIVE REASONING (3-4 HOURS)

Preferred Course(s): MATH 2200 or MATH 2250

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.
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

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).

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.

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 4000 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/WASP)(FISH) 4310/6310-4310L/6310L
FISH(ECOL)(MAR)(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:
BIOC(WILD) 3700
WILD 4000/6000-4000L/6000L
WILD(ECOL) 4040/6040-4040L/6040L
WILD(BIOC) 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(BIOC) 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:
BIOC(WILD) 3700
WILD(ECOL) 4040/6040-4040L/6040L
WILD(BIOC) 4050/6050-4050L/6050L
WILD 4060/6060-4060L/6060L

Habitat
Select one course (3-4 hours) from the following:
ECOL(FISH) 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 4360/6360
WILD 4500/6500
WILD 4600/6600-4600L/6600L
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)(RUST) 4271/6271, FANR(MARS) 4272/6272, FORS(ECOL)(GEOG) 4250/6250, FORS(CRSS)(ECOL)(ANTH) 4760, RUST(FORS)(ANTH) 4270/6270, WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOG) 4700L/6700L, WILD 4280/6280, WILD(ECOL) 4575/6575, 4576/6576, WILD 5200/7200

Fisheries
Select one 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

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