UNIVERSITY CURRICULUM COMMITTEE – 2014-2015
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Arts and Sciences - Dr. Roxanne Eberle (Arts)
Dr. Rodney Mauricio (Sciences)
Business - Dr. Myra L. Moore
Ecology - Dr. James W. Porter
Education - Dr. Seock-Ho Kim
Engineering - Dr. Sidney Thompson
Environment and Design - Mr. David Spooner
Family and Consumer Sciences - Dr. Silvia Giraudo
Forestry and Natural Resources - Dr. W. Dale Green
Journalism and Mass Communication - Dr. Alison F. Alexander
Law - Ms. Elizabeth Weeks Leonard
Pharmacy - Dr. Cory Momany
Public and International Affairs - Dr. Robert Grafstein
Public Health - Dr. Katie D. Hein
Social Work - Dr. Kristina Jaskyte
Veterinary Medicine - Dr. Scott A. Brown
Graduate School - Dr. Timothy L. Foutz
Ex-Officio - Provost Pamela S. Whitten
Undergraduate Student Representative - Mr. William Heaton
Graduate Student Representative - Ms. Lauren E. Mullenbach

Dear Colleagues:

The attached proposal for the following new Areas of Emphasis under the major in Agriscience and Environmental Systems (B.S.A.) will be an agenda item for the October 17, 2014, Full University Curriculum Committee meeting:

Area of Emphasis in Plant Breeding/Genetics
Area of Emphasis in Precision Agriculture
Area of Emphasis in Sustainable Agriculture

Sincerely,

William K. Vencill, Chair
University Curriculum Committee

cc: Provost Pamela S. Whitten
Dr. Laura D. Jolly

Committee on Facilities, Committee on Intercollegiate Athletics, Committee on Statutes, Bylaws, and Committees,
Committee on Student Affairs, Curriculum Committee, Educational Affairs Committee, Executive Committee, Faculty Admissions Committee,
Faculty Affairs Committee, Faculty Grievance Committee, Faculty Post-Tenure Review Appeals Committee, Faculty/Staff Parking Appeals Committee,
Human Resources Committee, Strategic Planning Committee, University Libraries Committee, University Promotion and Tenure Appeals Committee

An Equal Opportunity/Affirmative Action Institution
PROPOSAL FOR AREA OF EMPHASIS

School/College: College of Agricultural and Environmental Sciences

Department/Division: Crop and Soil Sciences

Major: Agriscience and Environmental Systems (B.S.A.)

If major has more than one area of emphasis, submit all areas of emphasis under one major together. A course may appear in more than one area of emphasis, but each area of emphasis should have a distinct focus.

Major Requirements:
AESC 4520, Application of Technology in Production Agriculture
ADSC 3400, Physiology of Reproduction in Domestic Animals, or ADSC 3130, Animal Biotechnology, or ADSC 3300, Animal Nutrition and Metabolism, or POUL 3750, Poultry Nutrition, or BCMB(BIOL)(CHEM) 3100, Introductory Biochemistry and Molecular Biology
CRSS(FANR) 3060 and CRSS(FANR)3060L, Soils and Hydrology and Soils and Hydrology Lab
ENTO(CRSS)(PATH) 4250/6250, Pesticides and Transgenic Crops
ENTO(CRSS)(PATH) 4740/6740, Integrated Pest Management

Area of Emphasis Title (as it will appear in the Bulletin): Plant Breeding/Genetics

Proposed starting date: Fall 2015

Area of Emphasis Description: Courses and research in plant breeding address principles, procedures, and methodologies relating to improvement of yield, quality, and plant resistance to diseases and pests of agricultural crops.

Include prefixes, numbers and titles of required courses, number of credit hours required; residency requirements (if any); and grade requirements (if any). Graduate Areas of Emphasis may refer to groups of courses if necessary.

See attached
Proposal for Area of Emphasis in Plant Breeding/Genetics:

Required Major Courses (16 hours)

Area of Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENE(BIOL) 3200</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>PBGG(CRSS)(HORT) 4140/6140</td>
<td>Plant Breeding</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4300 or</td>
<td>Crop Production and Management</td>
<td>3</td>
</tr>
<tr>
<td>HORT(CRSS) 4430/6430</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>HORT(CRSS) 4800/6800 or</td>
<td>Agricultural Biotechnology</td>
<td>3</td>
</tr>
<tr>
<td>PBIO(CRSS)(BIOL) 4500/6500</td>
<td>Introduction to Gene Technology</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course in Agribusiness

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC 3010</td>
<td>Farm Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>AAEC 3040</td>
<td>Agribusiness Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ENVM 3060</td>
<td>Principles of Resource Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course in Production Management

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADSC 4350-4350L</td>
<td>Grazing Animal Production</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 3270</td>
<td>Turf Management</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4260/6260</td>
<td>Forage Management and Utilization</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4300</td>
<td>Crop Production and Management</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4310/6310-4310L/6310L</td>
<td>Seed Technology</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4340/6340</td>
<td>Weed Science</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4340L/6340L</td>
<td>Weed Science Lab</td>
<td>1</td>
</tr>
<tr>
<td>HORT 3010</td>
<td>Introduction to Vegetable Crops</td>
<td>3</td>
</tr>
<tr>
<td>HORT 3020</td>
<td>Introduction to Fruit Crops</td>
<td>3</td>
</tr>
<tr>
<td>HORT(CRSS)(ENTO)(PATH) 3125</td>
<td>Organic Agricultural Systems</td>
<td>3</td>
</tr>
<tr>
<td>HORT(CRSS)(ENTO)(PATH) 3126</td>
<td>Fertility and Pest Management in Organic Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>HORT 3300</td>
<td>Organic Gardening</td>
<td>3</td>
</tr>
<tr>
<td>HORT 4010/6010-4010L/6010L</td>
<td>Vegetable Culture</td>
<td>4</td>
</tr>
<tr>
<td>HORT 4020/6020-4020L/6020L</td>
<td>Fruit Production</td>
<td>3</td>
</tr>
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</table>
PROPOSAL FOR AREA OF EMPHASIS

School/College: College of Agricultural and Environmental Sciences

Department/Division: Crop and Soil Sciences

Major: Agriscience and Environmental Systems (B.S.A.)

If major has more than one area of emphasis, submit all areas of emphasis under one major together. A course may appear in more than one area of emphasis, but each area of emphasis should have a distinct focus.

Major Requirements:
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- CRSS(FANR) 3060 and CRSS(FANR) 3060L, Soils and Hydrology and Soils and Hydrology Lab
- ENTO(CRSS)(PATH) 4250/6250, Pesticides and Transgenic Crops
- ENTO(CRSS)(PATH) 4740/6740, Integrated Pest Management

Area of Emphasis Title (as it will appear in the Bulletin): Precision Agriculture

Proposed starting date: Fall 2015

Area of Emphasis Description: The term precision agriculture implies improving the productivity of a field by optimizing the agronomic inputs applied uniquely to every square foot in a field based on real-time data of the variability found within a field. Students will focus on theory and equipment that can accurately apply crop inputs in the exact amounts and locations identified as needed.

Include prefixes, numbers and titles of required courses, number of credit hours required; residency requirements (if any); and grade requirements (if any). Graduate Areas of Emphasis may refer to groups of courses if necessary.

See attached
Proposal for Area of Emphasis in Precision Agriculture:

Required Major Courses (16 hours)

Area of Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRSS 3030</td>
<td>Principles of Precision Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4050/6050</td>
<td>Improving Nutrient and Energy Efficiency with GIS</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4010/6010</td>
<td>Principles of Sustainable Management</td>
<td>3</td>
</tr>
<tr>
<td>APTC(EHSC) 3080</td>
<td>Introduction to Environmental Sciences and Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4031*</td>
<td>Advanced Precision Agriculture</td>
<td>3</td>
</tr>
</tbody>
</table>

* Course does not exist in the CAPA system

Choose one Agriculture Business Course

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEC 3010</td>
<td>Farm Organization and Management</td>
<td>3</td>
</tr>
<tr>
<td>AAEC 3040</td>
<td>Agribusiness Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ENVM 3060</td>
<td>Principles of Resource Economics</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose two Production courses

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADSC 3660-3660L</td>
<td>Warmwater Aquaculture</td>
<td>3</td>
</tr>
<tr>
<td>ADSC 4350-4350L</td>
<td>Grazing Animal Production</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4300</td>
<td>Crop Production and Management</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4340/6340</td>
<td>Weed Science</td>
<td>3</td>
</tr>
<tr>
<td>HORT 3010</td>
<td>Introduction to Vegetable Crops</td>
<td>3</td>
</tr>
</tbody>
</table>
PROPOSAL FOR AREA OF EMPHASIS

School/College: College of Agricultural and Environmental Sciences
Department/Division: Crop and Soil Sciences
Major: Agriscience and Environmental Systems (B.S.A.)

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CRSS(FANR) 3060 and CRSS(FANR)3060L, Soils and Hydrology, Soils and Soils and Hydrology Lab
ENTO(CRSS)(PATH) 4250/6250, Pesticides and Transgenic Crops
ENTO(CRSS)(PATH) 4740/6740, Integrated Pest Management

Area of Emphasis Title (as it will appear in the Bulletin): Sustainable Agriculture

Proposed starting date: Fall 2015

Area of Emphasis Description: The Sustainable Agriculture Area of Emphasis will provide students with an opportunity to take the agronomic courses of the Agriscience major and focus on issues of crop production while providing for the means to provide people with a healthy and affordable diet and protect environmental quality essential to the vitality of rural communities.

Include prefixes, numbers and titles of required courses, number of credit hours required; residency requirements (if any); and grade requirements (if any). Graduate Areas of Emphasis may refer to groups of courses if necessary.

See attached
Proposal for Area of Emphasis in Sustainable Agriculture:

Required Major Courses (16 hours)

Area of Emphasis Requirements:

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRSS 4010/6010</td>
<td>Principles of Sustainable Management</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4260/6260</td>
<td>Forage Management and Utilization</td>
<td>3</td>
</tr>
<tr>
<td>CRSS 4580/6580</td>
<td>Soil Erosion and Conservation</td>
<td>3</td>
</tr>
<tr>
<td>CRSS(HORT)(ECOL) 4590/6590</td>
<td>Soil Fertility and Plant Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>CRSS(HORT) 4590L/6590L</td>
<td>Soil Fertility and Plant Nutrition Lab</td>
<td>1</td>
</tr>
<tr>
<td>PATH 3530-3530L</td>
<td>Introductory Plant Pathology</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one course in Organic Agriculture

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORT(CRSS)(ENTO)(PATH) 3125</td>
<td>Organic Agricultural Systems</td>
<td>3</td>
</tr>
<tr>
<td>HORT(CRSS)(ENTO)(PATH) 3126</td>
<td>Fertility and Pest Management in Organic Agriculture</td>
<td>3</td>
</tr>
<tr>
<td>HORT 3300</td>
<td>Organic Gardening</td>
<td>3</td>
</tr>
<tr>
<td>HORT 4096</td>
<td>Organic Agriculture Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Choose two courses in Environmental Policy

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVM 3060</td>
<td>Principles of Resource Economics</td>
<td>3</td>
</tr>
<tr>
<td>ENVM 4380</td>
<td>Environmental Management</td>
<td>3</td>
</tr>
<tr>
<td>AAEC(ENVM) 4710/6710</td>
<td>Rural Economic Development and Growth</td>
<td>3</td>
</tr>
<tr>
<td>AAEC(AFST)(ENVM) 4720</td>
<td>Food Security, Economic Development and the Environment</td>
<td>3</td>
</tr>
<tr>
<td>ENVM(AAEC) 4930/6930</td>
<td>Environmental Law and Government Regulation</td>
<td>3</td>
</tr>
</tbody>
</table>

Choose one of the following courses in Human Aspects

<table>
<thead>
<tr>
<th>Course ID</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCI 3400</td>
<td>Environmental Sociology</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4262/6262</td>
<td>Transitions from Foraging to Farming</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 4060/6060</td>
<td>Agricultural Anthropology</td>
<td>3</td>
</tr>
</tbody>
</table>
Agriscience and Environmental Systems (B.S.A.)
(also offered at Tifton)

TOTAL DEGREE HOURS 120 hours

I. FOUNDATION COURSES (9 HOURS)

ENGL 1101 or ENGL 1101E or ENGL 1101S  
ENGL 1102 or ENGL 1102E or ENGL 1103 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*, CHEM 1211L* or CHEM 1311H*, CHEM 1311L*) or PHYS 1111-1111L

*In addition to meeting upper-level course prerequisites, this course can be used to satisfy the College of Agricultural and Environmental Sciences graduation requirements.

Life Sciences (3-4 hours)

Preferred Course(s): (BIOL 1107 BIOL 1107L)* or (BIOL 2107H, BIOL 2107L)* or (PBIO(BIOL) 1210, PBIO(BIOL) 1210L)*  

*In addition to meeting upper-level course prerequisites, this course can be used to satisfy the College of Agricultural and Environmental Sciences graduation requirements.
III. QUANTITATIVE REASONING (3-4 HOURS)

Preferred Course(s): STAT 2000 or STAT 2100H

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)

Preferred Course(s): COMM 1100* or COMM 2150H*

*In addition to meeting upper-level course prerequisites, this course can be used to satisfy the College of Agricultural and Environmental Sciences graduation requirements.

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 at University Testing Services. Reexamination is permitted. Contact University Testing Services at (706) 542-3183 for information.

Preferred Course(s): AAEC 2580
Area VI
ADSC 2010 or POUL 2020-2020L
(BIOL 1108, BIOL 1108L) or (BIOL 2108H, BIOL 2108L) or (PBIO(BIOL) 1220, PBIO(BIOL) 1220L) or
(PBIO(BIOL) 1220, PBIO(BIOL) 1220H, PBIO(BIOL) 1220L)
(CHEM 1212, CHEM 1212L) or (CHEM 1312H, CHEM 1312L)
CRSS 2010-2010L or HORT 2000
Four hours of electives

If any of the courses in Area VI have been used to satisfy Areas I-V 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 (43-44 hours) (34-44 hours)
Complete the following (16 hours):
AECS 4520
ADSC 3130 or ADSC 3300 or ADSC 3400 or POUL 3750 or ADSC 4010* BCMB(BIOL)(CHEM) 3100
CRSS(FANR) 3060, CRSS(FANR) 3060L
ENTO(CRSS)(PATH) 4250/6250
ENTO(CRSS)(PATH) 4740/6740

*A Students on the Tifton Campus should select this course.

Students may choose to major in "General" Agriscience and Environmental Systems or major in Agriscience and Environmental Systems with an Area of Emphasis in Plant Breeding and Genetics, Precision Agriculture, or Sustainable Agriculture.

Agriscience and Environmental Systems Major (General):
Choose two from the following Agribusiness courses - 6 hours
AAEC 3010
AAEC 3040
ENVM 3060

Choose two from the following Agricultural Technology courses - 6-7 hours
ADSC 3130
AECS 3510
CRSS 3030*  
CRSS 4050/6050  
CRSS 4340/6340  
CRSS 4340L/6340L  
GEOG 4300/6300  
GEOG 4370/6370-4370L/6370L  
HORT(CRSS) 4800/6800*  
PBIO(CRSS)(BIOL) 4500/6500

*Students on the Tifton Campus should select these courses.

Choose two from the following Environmental Sciences courses - 6 hours  
APTC(EHSC) 3080*  
CRSS(GEOL) 4540/6540-4540L/6540L  
CRSS(HORT)(ECOL) 4590/6590  
CRSS(HORT) 4590L/6590L  
CRSS 4670/6670  
CRSS 4580/6580-4580L/6580L*  
EHSC 3060  
WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L/6700L  
HORT(CRSS) 4430/6430  
HORT(CRSS) 4440/6440-4440L/6440L  
WASR(CRSS)(ECOL)(ENGR)(GEOG)(GEOL) 4700L/6700L*

* Students of the Tifton Campus should select these courses.

Choose two from the following Production Management courses - 6 hours  
ADSC 3600-3600L  
ADSC 3620-3620L  
ADSC 3630-3630L  
ADSC 3660-3660L*  
ADSC 4350-4350L*  
CRSS 3270  
CRSS 4260/6260  
CRSS 3270  
CRSS 4300*  
CRSS 4310/6310-4310L/6310L*  
CRSS 4340/6340  
CRSS 4340L/6340L  
HORT 3010 *  
HORT 3020  
HORT(CRSS)(ENTO)(PATH) 3125
* Students on the Tifton Campus should select these courses.

Choose one from the following Application courses - 3 hours

- ADSC 3910
- AESC 3920
- AESC 4960
- CRSS 3910
- HORT 3910
- PATH 3910

**Plant Breeding and Genetics Area of Emphasis:**

Complete the following (12 hours):

- GENE(BIOL) 3200
- PBGG(CRSS)(HORT) 4140/6140
- CRSS 4300 or HORT(CRSS) 4430/6430
- HORT(CRSS) 4800/6800 or PBIO(CRSS)(BIOL) 4500/6500

Choose one from the following Agribusiness courses – 3 hours

- AAEC 3010
- AAEC 3040
- ENVM 3060

Choose one from the following Production Management courses – 3-4 hours

- ADSC 4350-4350L
- CRSS 3270
- CRSS 4260/6260
- CRSS 4300
- CRSS 4310/6310-4310L/6310L
- CRSS 4340/6340
- CRSS 4340L/6340L
- HORT 3010
- HORT 3020
- HORT(CRSS)(ENTO)(PATH) 3125
- HORT(CRSS)(ENTO)(PATH) 3126
- HORT 3300
HORT 4010/6010-4010L/6010L
HORT 4020/6020-4020L/6020L

**Precision Agriculture Area of Emphasis:**

Complete the following (15 hours):
- CRSS 3030
- CRSS 4050/6050
- CRSS 4010/6010
- APTC(EHSC) 3080
- CRSS 4031

Choose one from the following Agriculture Business courses – 3 hours
- AAEC 3010
- AAEC 3040
- ENVM 3060

Choose two from the following Production Management courses – 6 hours
- ADSC 3660-3660L
- ADSC 4350-4350L
- CRSS 4300
- CRSS 4340/6340
- HORT 3010

**Sustainable Agriculture Area of Emphasis:**

Complete the following (16 hours):
- CRSS 4010/6010
- CRSS 4260/6260
- CRSS 4580/6580
- CRSS(HORT)(ECOL) 4590/6590
- CRSS(HORT) 4590L/6590L
- PATH 3530-3530L

Choose one from the following Organic Agriculture courses – 3 hours
- HORT(CRSS)(ENTO)(PATH) 3125
- HORT(CRSS)(ENTO)(PATH) 3126
- HORT 3300
- HORT 4096

Choose two from the following Environmental Policy courses – 6 hours
- ENVM 3060
- ENVM 4380
Choose one from the following Human Aspects courses – 3 hours

SOCI 3400
ANTH 4262/6262
ANTH 4060/6060

Major Electives (9-12 hours)

AAEC(ENVM) 4710/6710
AAEC(AFST)(ENVM) 4720
AESC 3510
AESC 4530
ANTH 4060/6060
ANTH 4262/6262
CRSS 3070
CRSS 3270
CRSS 4010/6010
CRSS 4031
CRSS 4090
CRSS 4340/6340
CRSS 4340L/6340L
ENTO(EHSC) 3590-3590L
ENTO 3740-3740L
ENTO 4350-4350L
ENTO 4500/6500-4500L/6500L
ENVM 4380
ENVM(AAEC) 4930/6930
GENE(BIOL) 3200
HORT 4050/6050
HORT 4060/6060
HORT 4096
HORT 3300
PATH 3530-3530L
PATH 4280/6280-4280L/6280L
PATH 4300/6300
PBGG(CRSS)(HORT) 4140/6140
PBIO(CRSS)(BIOL) 4500/6500
SOCl 3400

General Electives *(4-8 hours) [4-17 hours]*

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