



UNIVERSITY  
OF KENTUCKY

College of Agriculture, Food & Environment

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of Forestry

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July 16, 2015

Dr. Larry Grabau  
Associate Dean for Instruction  
College of Agriculture, Food and Environment  
N-6 Ag Science North  
Lexington, KY 40546-0091

Dear Dr. Grabau,

The undergraduate forestry program, leading to a Bachelor of Science in Forestry at the University of Kentucky, is a professionally accredited degree program by the Society of American Foresters. It has been six years since extensive revisions were made to the undergraduate forestry degree program. Since this time, there have been changes to the university general education requirements, changes in the forestry faculty, and a diversifying range of opportunities for our forestry graduates. Adjustments to our forestry curriculum are needed to enhance our forestry program and prepare our students for success in a changing world.

About two years ago, an *ad hoc* curriculum revision committee was formed to receive and analyze input from forestry faculty, staff, students, alumni, employers, and other stakeholders. We also analyzed our assessment results, junior and senior exit interviews, and input from the Forestry Department Advisory Group. The curriculum revision committee used these inputs to help design a revised, relevant, and innovative forestry curriculum. After much useful discussion during the *ad hoc* curriculum revision committee meetings and subsequent Undergraduate Program Committee and faculty meetings, a final revised curriculum was approved by our forestry faculty.

One of the key changes to our proposed curriculum revision is to create nine hours of professional electives within our rigorous, already full, professionally accredited Forestry program. Because we have a strict set of professional degree requirements by the Society of American Foresters, there is little room for additional professional development. In order to provide society-ready forestry graduates that have the appropriate technical forestry background as well as the additional, more specialized skills to find employment in specific disciplines of forestry, wildlife, and natural resources management, we proposed to use nine credit hours of forestry courses towards the UK Core. Completing most of the UK Core forestry coursework early in the student's undergraduate career will allow the students to select upper-level professional development courses in a particular area such as business, communication,

see blue.

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leadership, geographic information systems, or wildlife. These upper-level courses in a student's particular career focus area will allow for a better prepared and more employable forestry graduate.

In addition, creating several forestry courses within the UK Core is beneficial to educating a broader spectrum of UK students (i.e., non-forestry majors) about the role and importance of forests and forestry for providing wildlife habitat, clean air, clean water, and other ecosystems services.

If you need additional information on our forestry curriculum revision package, please contact Laura Lhotka at (859) 257-8718 or [laura.lhotka@uky.edu](mailto:laura.lhotka@uky.edu).

Sincerely,

A handwritten signature in blue ink, appearing to read 'TBaker', with a stylized flourish at the end.

Terrell T. "Red" Baker, Ph.D.  
Chair/Professor  
Department of Forestry

# Table of Contents

## Overview Materials

- Undergraduate Forestry Program Proposed Curriculum Revision

## Required Paperwork

- Change Undergraduate Program Form

## Copy of Materials Submitted Through eCATS

### Major Change Form

- FOR 100 Forests and Forestry (3)\*
- FOR 101 Keeping it Wild: Animal Conservation in the 21st Century (3)\*
- FOR 200 Basics of Geospatial Technology (3)\*
- FOR 230/435 Conservation Biology (3)\*
- FOR 250 Statistics and Measurements I (4)\*
- FOR 280 Forest Resource Policy and Law (3)
- FOR 310 Introduction to Forest Health and Protection (1)
- FOR 355/255 Forest Fire (1)
- FOR 356 Forest Soils and Hydrology (1)
- FOR 460 Forest Hydrology and Watershed Management (3)

*\*Submitted with UK Core paperwork*

### Minor Change Form

- FOR 330 GIS and Spatial Analysis (3)
- FOR 357 Inventory and Measurements II (2)
- FOR 358 Silvicultural Practices (3)
- FOR 359 Forest Operations and Utilization (3)
- FOR 400 Human Dimensions of Forestry and Natural Resources (3)
- FOR 425 Forest Management (4)

### New Course Form

- FOR 285 Communication and Professional Development in Forestry and Natural Resources I (1)
- FOR 286 Communication and Professional Development in Forestry and Natural Resources II (1)
- FOR 365 Wildlife Assessment (2)
- FOR 520 Mammals of the Eastern United States (4)
- FOR 530 Freshwater Ecology (3)
- FOR 540 Urban Ecology (3)
- FOR 550 U.S. Biodiversity Hotspots (3)
- FOR 560 Landscape Ecology for Natural Resources (3)

### Drop Course Form

- FOR 375 Taxonomy of Forest Vegetation (1)
- FOR 376 Silvicultural Practices (2)
- FOR 377 Forest Surveying (1)
- FOR 378 Forest Mensuration (2)
- FOR 379 Harvest and Utilization of Wood (2)

## Ett, Joanie M

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**From:** Lhotka, Laura R  
**Sent:** Friday, March 04, 2016 1:33 PM  
**To:** Badger, Karen  
**Cc:** Ett, Joanie M; Ringe, Jim; Baker, Terrell T  
**Subject:** Updated Forestry Curriculum Revision paperwork  
**Attachments:** ForestryProgramChangeForm\_030416\_FINAL.doc;  
CurriculumRevision\_UKCoreRevised030416\_FINAL.pdf

Karen,

Thank you again for all of your help with the Forestry Curriculum Revision paperwork. Attached is a revised version of the Program Change Form with the adjustments made to the UK Core.

This paperwork should reflect the change that forestry majors may use FOR 250 Statistics and Measurements I (4) and FOR 435 Conservation Biology (3) to satisfy the Statistical Inferential Reasoning and Global Dynamics UK Core areas. FOR 100, FOR 200 and FOR 101 will still be part of the UK Core, but will be used by non-majors for that purpose. Forestry majors will take FOR 100 and FOR 200, but will not be able to use them to satisfy UK Core requirements. To accomplish these changes, the forestry faculty voted to approve replacing the departmental MA 109 College Algebra pre-major requirement with any Quantitative Foundations course having a MA prefix (MA 111 or MA 113 or MA 123 or MA 137).

Also attached is a sample curriculum showing the proposed 4-year plan for a student.

Please let me know if additional changes are need to the paperwork.

Thanks,  
Laura

Laura Lhotka  
Academic Coordinator | UK Department of Forestry  
104 T.P. Cooper Building | Lexington, KY 40546-0073  
(859) 257-8718 | [laura.lhotka@uky.edu](mailto:laura.lhotka@uky.edu)

# CHANGE UNDERGRADUATE PROGRAM FORM

## 1. General Information

|  |                                       |   |                                    |
|--|---------------------------------------|---|------------------------------------|
| College: <u>Agriculture, Food and Environment</u>  |                                       | Department: <u>Forestry</u>                                   |                                    |
| Current Major Name: <u>Forestry</u>  |                                       | Proposed Major Name: <u>Forestry</u>                          |                                    |
| Current Degree Title: <u>Bachelor of Science in Forestry</u>   |                                       | Proposed Degree Title: <u>Bachelor of Science in Forestry</u> |                                    |
| Formal Option(s): <u>n/a</u>   |                                       | Proposed Formal Option(s): <u>n/a</u>                         |                                    |
| Specialty Field w/in Formal Option: <u>n/a</u>   |                                       | Proposed Specialty Field w/in Formal Options: <u>n/a</u>      |                                    |
| Date of Contact with Associate Provost for Academic Administration <sup>1</sup> : <u>11/11/2014</u>  |                                       |   |                                    |
| Bulletin (yr & pgs):   | <u>2014-2015</u><br><u>pg.109-110</u> | CIP Code <sup>1</sup> :                                       | <u>B03.0502</u>                    |
|  |                                       | Today's Date:   | <u>03/22/2016</u>                  |
| Accrediting Agency (if applicable): <u>Society of American Foresters</u>   |                                       |   |                                    |
| Requested Effective Date: <input checked="" type="checkbox"/> Semester following approval.    OR <input type="checkbox"/> Specific Date <sup>2</sup> : _____ |                                       |   |                                    |
| Dept. Contact Person: <u>Laura R. Lhotka</u>   |                                       | Phone: <u>859-257-8718</u>                                    | Email: <u>laura.lhotka@uky.edu</u> |

## 2. General Education Curriculum for this Program:

The new General Education curriculum is comprised of the equivalent of 30 credit hours of course work. There are, however, some courses that exceed 3 credits & this would result in more than 30 credits in some majors.

- There is no foreign language requirement for the new Gen Ed curriculum.
- There is no General Education Electives requirement.

### Please list the courses/credit hours currently used to fulfill the University Studies/General Education curriculum:

#### I. Intellectual Inquiry in Arts and Creativity

Choose one course from approved list (3)

#### II. Intellectual Inquiry in the Humanities

Choose one course from approved list (3)

#### III. Intellectual Inquiry in the Social Sciences

Choose one course from approved list (3)

#### IV. Intellectual Inquiry in the Natural, Physical, and Mathematical Sciences

BIO 103 Basic Ideas of Biology (3)

#### V. Composition and Communication I

CIS/WRD 110 Composition and Communication I (3)

#### VI. Composition and Communication II

CIS/WRD 111 Composition and Communication II (3)

<sup>1</sup> Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the (APAA) can provide you with that during the contact.

<sup>2</sup> Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are received.

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### VII. Quantitative Foundations

One calculus course from approved list (3). Students who do not take calculus will use three hours of free electives taking MA 109 College Algebra.

### VIII. Statistical Inferential Reasoning

Recommended: STA 210 Making Sense of Uncertainty: An Introduction to Statistical Reasoning (3)

### IX. Community, Culture and Citizenship in the USA

GEN 100 Issues in Agriculture, Food and Environment (3)

### X. Global Dynamics

Choose one course from approved list (3)

***Please identify below the suggested courses/credit hours to fulfill the General Education curriculum.***

| General Education Area                                       | Course  | Credit Hrs       |
|--|---|------------------|
| <b>I. Intellectual Inquiry (one course in each area)</b>     |   |                  |
| Arts and Creativity  | <u>Any from list</u>  | <u>3</u>         |
| Humanities   | <u>Any from list</u>  | <u>3</u>         |
| Social Sciences  | <u>Any from list</u>  | <u>3</u>         |
| Natural/Physical/Mathematical                                | <u>BIO 103 Basic</u><br><u>Ideas of Biology</u>   | <u>3</u>         |
| <b>II. Composition and Communication</b>                     |   |                  |
| Composition and Communication I                              | CIS or WRD 110  | 3                |
| Composition and Communication II                             | CIS or WRD 111  | 3                |
| <b>III. Quantitative Reasoning (one course in each area)</b> |   |                  |
| Quantitative Foundations <sup>3</sup>                        | <u>Any approved</u><br><u>Quantitative</u><br><u>Foundations course</u><br><u>with a Math (MA)</u><br><u>prefix</u> | <u>3</u>         |
| Statistical Inferential Reasoning                            | <u>FOR 250 Statistics</u><br><u>and Measurements</u><br><u>I (submitted for</u><br><u>approval)</u>                 | <u>4</u>         |
| <b>IV. Citizenship (one course in each area)</b>             |   |                  |
| Community, Culture and Citizenship in the USA                | <u>GEN 100 Issues in</u><br><u>Agriculture, Food</u><br><u>and Environment</u>                                      | <u>3</u>         |
| Global Dynamics  | <u>FOR 435</u><br><u>Conservation</u><br><u>Biology (submitted</u><br><u>for approval)</u>                          | <u>3</u>         |
| <b>Total General Education Hours</b>                         |   | <u><b>31</b></u> |

**3. Explain whether the proposed changes to the program (as described in sections 4 to 12) involve courses offered by**

<sup>3</sup> Note that MA 109 is NOT approved as a Quantitative Foundations course. Students in a major requiring calculus will use a calculus course (MA 113, 123, 137 or 138) while students not requiring calculus should take MA 111, PHI 120 or another approved course.

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another department/program. **Routing Signature Log must include approval by faculty of additional department(s).**

The Forestry Department contributes to the Natural Resources and Environmental Science (NRES) interdisciplinary degree program. The proposed changes involve courses in the NRES program taught by forestry faculty.

**4. Explain how satisfaction of the University Graduation Writing Requirement will be changed.**

| Current  |   | Proposed  |                  |
|--|---|---|------------------|
| <input type="checkbox"/> Standard University course offering.<br>List: _____ |   | <input type="checkbox"/> <i>Standard University course offering.</i><br>List: _____ |                  |
| <input checked="" type="checkbox"/> Specific course – list:                  | FOR 400 <u>Human Dimensions of Forestry and Natural Resources (3)</u><br><br>FOR 480 <u>Integrated Forest Research Management (5)</u> | <input checked="" type="checkbox"/> <i>Specific course) – list:</i>                 | <u>No change</u> |

**5. List any changes to college-level requirements that must be satisfied.**

| Current   |  | Proposed   |  |
|---|--|--|--|
| <input type="checkbox"/> Standard college requirement.<br>List: _____ |  | <input type="checkbox"/> <i>Standard college requirement.</i><br>List: _____ |  |
| <input type="checkbox"/> Specific required course – list: _____       |  | <input type="checkbox"/> <i>Specific course – list:</i> _____                |  |

**6. List pre-major or pre-professional course requirements that will change, including credit hours.**

| Current   | Proposed  |
|---|---|
| <u>GEN 100 Issues in Agriculture, Food and Environment</u>  | <i>not required</i>   |
| <u>BIO 103 Basic Ideas of Biology (3)</u><br>or<br><u>BIO 150 Principles of Biology I (3)</u>             | <i><u>BIO 103 Basic Ideas of Biology (3)</u></i><br>or<br><i><u>BIO 148 Introductory Biology I (3)</u></i>              |
| <u>CHE 104 Introductory General Chemistry (3)</u><br>or<br><u>CHE 105 General College Chemistry I (4)</u> | <i><u>CHE 104 Introductory General Chemistry (3)</u></i><br>or<br><i><u>CHE 105 General College Chemistry I (4)</u></i> |
| <u>MA 109 College Algebra</u>   | <i><u>Any approved Quantitative Foundations course with a Math (MA) prefix</u></i>                                      |

**7. List the major’s course requirements that will change, including credit hours.**

| Current   | Proposed  |
|---|---|
| <u>FOR 110 Natural Resource Issues (1)</u>                | <i><u>FOR 110 - removed</u></i>                           |
| <u>FOR 150 Computer App. in Nat. Res. Professions (2)</u> | <i><u>FOR 150 - removed</u></i>                           |
| <u>FOR 200 Basics of Geospatial Technology (2)</u>        | <i><u>FOR 200 Basics of Geospatial Technology (3)</u></i> |
| <u>FOR 219 Dendrology (4)</u>                             | <i><u>FOR 219 - same</u></i>                              |
| <u>FOR 230 Conservation Biology (3)</u>                   | <i><u>FOR 435 Conservation Biology (3)</u></i>            |
| <u>FOR 240 Forestry and Natural Resource Ethics (2)</u>   | <i><u>FOR 240 - same</u></i>                              |
| <u>FOR 250 Statistics and Measurements I (3)</u>          | <i><u>FOR 250 Statistics and Measurements I (4)</u></i>   |
| <u>FOR 260 Forest Products and Wood Science (4)</u>       | <i><u>FOR 260 - same</u></i>                              |

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|   |   |
|---|---|
| <u>FOR 280 Forest Policy (2)</u><br><u>FOR 310 Intro. to Forest Health and Protection (3)</u><br><u>FOR 320 Forest Valuation and Economics (3)</u><br><u>FOR 330 GIS and Spatial Analysis (3)</u><br><u>FOR 340 Forest Ecology (4)</u><br><u>FOR 350 Silviculture (4)</u><br><u>FOR 355 Forest Fire Control and Use (1)</u><br><u>FOR 356 Landscape Assessment (5)</u><br><u>FOR 357 Inventory and Measurements II (2)</u><br><u>FOR 358 Silvicultural Practices (3)</u><br><u>FOR 359 Forest Operations and Utilization (3)</u><br><u>FOR 370 Wildlife Biology and Management (4)</u><br><u>FOR 400 Human Dimensions of For. &amp; Nat. Res. (3)</u><br><u>FOR 425 Forest Management (4)</u><br><u>FOR 460 Forest Hydrology &amp; Watershed Mgmt (4)</u><br><u>FOR 470 Interdependent Natural Resource Issues (3)</u><br><u>FOR 480 Integrated Forest Resource Management (5)</u><br><u>PLS 366 Fundamentals of Soil Science (4)</u><br>---<br>---<br>---<br>---<br>---<br>--- | <u>FOR 280 - Forest Resource Policy and Law (3)</u><br><u>FOR 310 Intro. to Forest Health and Protection (1)</u><br><u>FOR 320 - same</u><br><u>FOR 330 - same</u><br><u>FOR 340 - same</u><br><u>FOR 350 - same</u><br><u>FOR 255 Forest Fire (1)</u><br><u>FOR 356 Forest Soils and Hydrology (1)</u><br><u>FOR 357 - same</u><br><u>FOR 358 - same</u><br><u>FOR 359 - same</u><br><u>FOR 370 - same</u><br><u>FOR 400 - same</u><br><u>FOR 425 - same</u><br><u>FOR 460 Forest Hydrology &amp; Watershed Mgmt (3)</u><br><u>FOR 470 - removed</u><br><u>FOR 480 - same</u><br><u>PLS 366 - same</u><br><u>FOR 100 Forests and Forestry (3)</u><br><u>FOR 221 Winter Dendrology (1)</u><br><u>FOR 285 Com. &amp; Prof. Dev. in For. &amp; Nat. Res. I (1)</u><br><u>FOR 286 Com. &amp; Prof. Dev. in For. &amp; Nat. Res. II (1)</u><br><u>FOR 365 Wildlife Assessment (2)</u><br><u>FOR 402 Forest Entomology (3)</u> |
|---|---|

8. Does the **pgm require** a minor AND does the proposed **change** affect the required minor?  N/A  Yes  No  
 If "Yes," indicate current courses and proposed changes below.

|         |          |
|---------|----------|
| Current | Proposed |
| _____   | _____    |

9. Does the proposed change affect any option(s)?  N/A  Yes  No  
 If "Yes," indicate current courses and proposed changes below, including credit hours, and also specialties and subspecialties, if any.

|         |          |
|---------|----------|
| Current | Proposed |
| _____   | _____    |

10. Does the change affect **pgm requirements for number of credit hrs outside the major subject in a related field?**  Yes  No  
 If so, indicate current courses and proposed changes below.

|         |          |
|---------|----------|
| Current | Proposed |
| _____   | _____    |

11. Does the change affect **pgm requirements for technical or professional support electives?**  Yes  No  
 If so, indicate current courses and proposed changes below.

|                     |  |
|---------------------|--|
| Current             | Proposed   |
| <u>Not required</u> | <u>Nine hours of professional electives. In general, the professional electives should be a 300-level or above course. If a student wants to take a course not on the forestry program's professional elective list, the</u> |



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|  |  |
|--|--|
|  | <u>student must receive approval from the Department of Forestry Undergraduate Programs Committee.</u> |
|--|--|

**12. Does the change affect a minimum number of free credit hours or support electives?**

Yes  No

If "Yes," indicate current courses and proposed changes below.

| Current | Proposed |
|---------|----------|
| _____   | _____    |

**13. Summary of changes in required credit hours:**

|   | Current            | Proposed   |
|---|--------------------|------------|
| a. Credit Hours of Premajor or Preprofessional Courses:         | <u>9</u>           | <u>6</u>   |
| b. Credit Hours of Major's Requirements:                        | <u>81</u>          | <u>82</u>  |
| c. Credit Hours for Required Minor:                             | <u>n/a</u>         | <u>n/a</u> |
| d. Credit Hours Needed for a Specific Option:                   | <u>n/a</u>         | <u>n/a</u> |
| e. Credit Hours Outside of Major Subject in Related Field:      | <u>n/a</u>         | <u>n/a</u> |
| f. Credit Hours in Technical or Professional Support Electives: | <u>none</u>        | <u>9</u>   |
| g. Minimum Credit Hours of Free/Supportive Electives:           | <u>2</u>           | <u>3</u>   |
| h. Total Credit Hours Required by Level:                        | 100: <u>12</u>     | <u>18</u>  |
|   | 200: <u>20</u>     | <u>24</u>  |
|   | 300: <u>39</u>     | <u>34</u>  |
|   | 400-500: <u>19</u> | <u>21</u>  |
| i. Total Credit Hours Required for Graduation:                  | <u>121</u>         | <u>121</u> |

**14. Rationale for Change(s) – if rationale involves accreditation requirements, please include specific references to that.**

The undergraduate forestry program, leading to a Bachelor of Science in Forestry at the University of Kentucky, is a professionally accredited degree program by the Society of American Foresters. It has been six years since extensive revisions were made to the undergraduate forestry degree program. Since this time, there have been changes to the university general education requirements, changes in the forestry faculty, and a diversifying range of opportunities for our forestry graduates. Adjustments to our forestry curriculum are needed to enhance our forestry program and prepare our students for success in a changing world.

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One of the key changes to our proposed curriculum revision is to create nine hours of professional electives within our rigorous, already full, professionally accredited Forestry program. Because we have a strict set of professional degree requirements by the Society of American Foresters, there is little room for additional professional development. In order to provide society-ready forestry graduates that have the appropriate technical forestry background as well as the additional, more specialized skills to find employment in specific

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disciplines of forestry, wildlife, and natural resources management, we proposed to use two forestry courses towards the UK Core. Forestry majors may use FOR 250 Statistics and Measurements I (4) and FOR 435 Conservation Biology (3) to satisfy the Statistical Inferential Reasoning and Global Dynamics UK Core areas. FOR 100, FOR 200 and FOR 101 will still be part of the UK Core, but may be used by non-majors for that purpose. Forestry majors will take FOR 100 and FOR 200, but will not be able to use them to satisfy UK Core requirements. To accomplish these changes, the forestry faculty voted to approve replacing the departmental MA 109 College Algebra pre-major requirement with any Quantitative Foundations course having a MA prefix (MA 111 or MA 113 or MA 123 or MA 137).

Completing most of the UK Core forestry coursework early in the student's undergraduate career will allow the students to select upper-level professional development courses in a particular area such as business, communication, leadership, geographic information systems, or wildlife. These upper-level courses in a student's particular career focus area will allow for a better prepared and more employable forestry graduate.

In addition, creating several forestry courses within the UK Core is beneficial to educating a broader spectrum of UK students (i.e., non-forestry majors) about the role and importance of forests and forestry for providing wildlife habitat, clean air, clean water, and other ecosystems services.

**15. List below the typical semester by semester program for the major. If multiple options are available, attach a separate sheet for each option.**

|  |  |                                |  |
|--|--|--------------------------------|--|
| <p><b>YEAR 1 – FALL:</b><br/>(e.g. "BIO 103; 3 credits")</p> | <p><u>FOR 100 Forests and Forestry 3</u></p> <p><u>FOR 285 Com. &amp; Prof. Dev. in For. &amp; Nat. Res. I 1</u></p> <p><u>Humanities 3</u></p> <p><u>Citizenship - U.S. (required GEN 100) 3</u></p> <p><u>CIS/WRD 110 3</u></p> <hr/> <p style="text-align: right;">Total 13</p>     | <p><b>YEAR 1 – SPRING:</b></p> | <p><u>FOR 240 Forestry and Natural Resource Ethics 2</u></p> <p><u>FOR 255 Forest Fire 1</u></p> <p><u>BIO 103 Basic Ideas of Biology (Natural, Physical, and Mathematical Sciences) (or BIO 148) 3</u></p> <p><u>Quantitative Foundations (MA 111 or MA 113 or MA 123 or MA 137) 3</u></p> <p><u>CIS/WRD 111 3</u></p> <p><u>Arts and Creativity 3</u></p> <hr/> <p style="text-align: right;">Total 15</p> |
| <p><b>YEAR 2 - FALL :</b></p>                                | <p><u>FOR 200 Basics of Geospatial Technology 3</u></p> <p><u>FOR 219 Dendrology 4</u></p> <p><u>FOR 250 Statistics and Measurements I (Statistical Inferential Reasoning) 4</u></p> <p><u>FOR 280 Forest Resource Policy and Law 3</u></p> <p><u>CHE 104 Introductory General</u></p> | <p><b>YEAR 2 – SPRING:</b></p> | <p><u>FOR 260 Forest Products and Wood Science 4</u></p> <p><u>FOR 330 GIS and Spatial Analysis 3</u></p> <p><u>PLS 366 Fundamentals of Soil Science 4</u></p> <p><u>Professional Elective 3</u></p> <p><u>Social Sciences 3</u></p>   |

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|                       |  |                         |  |
|-----------------------|--|-------------------------|--|
|                       | <u>Chemistry (or CHE 105) 3</u><br><br><u>Total 17</u>   |                         | <u>Total 17</u>  |
| <b>YEAR 3 - FALL:</b> | <u>FOR 221 Winter Dendrology 1</u><br><br><u>FOR 320 Forest Valuation and Economics 3</u><br><br><u>FOR 340 Forest Ecology 4</u><br><br><u>FOR 350 Silviculture 4</u><br><br><u>FOR 370 Wildlife Biology and Management 4</u><br><br><u>Total 16</u>                     | <b>YEAR 3 - SPRING:</b> | <u><i>SPRING FIELD SEMESTER</i></u><br><br><u><i>FOR 286 Com. &amp; Prof. Dev. in For. &amp; Nat. Res. II 1</i></u><br><br><u><i>FOR 310 Intro. to Forest Health and Protection 1</i></u><br><br><u><i>FOR 356 Forest Soils and Hydrology 1</i></u><br><br><u><i>FOR 357 Inventory and Measurements II 2</i></u><br><br><u><i>FOR 358 Silvicultural Practices 3</i></u><br><br><u><i>FOR 359 Forest Operations and Utilization 3</i></u><br><br><u><i>FOR 365 Wildlife Assessment 2</i></u><br><br><u>Total 13</u> |
| <b>YEAR 4 - FALL:</b> | <u>FOR 400 Human Dimensions of For. &amp; Nat. Res. 3</u><br><br><u>FOR 402 Forest Entomology 3</u><br><br><u>FOR 425 Forest Management 4</u><br><br><u>FOR 460 Forest Hydrology &amp; Watershed Mgmt 3</u><br><br><u>Professional Elective 3</u><br><br><u>Total 16</u> | <b>YEAR 4 - SPRING:</b> | <u><i>FOR 435 Conservation Biology (Global Dynamics) 3</i></u><br><br><u><i>FOR 480 Integrated Forest Resource Management 5</i></u><br><br><u><i>Professional Elective 3</i></u><br><br><u><i>Free Elective 3</i></u><br><br><u>Total 14</u>   |

# CHANGE UNDERGRADUATE PROGRAM FORM

## Signature Routing Log

### General Information:

Current Degree Title and Major Name: Bachelor of Science in Forestry; Forestry

Proposal Contact Person Name: Laura Lhotka Phone: 859-257-8718 Email: laura.lhotka@uky.edu

### INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

### Internal College Approvals and Course Cross-listing Approvals:

| Reviewing Group         | Date Approved | Contact Person (name/phone/email)                  | Signature |
|-------------------------|---------------|--|-----------|
| Forestry                |               | Terrell Baker / 257-7596 /<br>terrellbaker@uky.edu |           |
| NRES Steering Committee |               | Mary Arthur / 257-5762 /<br>mary.arthur@uky.edu    |           |
|                         |               | / /  |           |
|                         |               | / /  |           |
|                         |               | / /  |           |

### External-to-College Approvals:

| Council                      | Date Approved | Signature                  | Approval of Revision <sup>4</sup> |
|------------------------------|---------------|----------------------------|-----------------------------------|
| Undergraduate Council        | 3/28/16       | Joanie Ett-Mims            |                                   |
| Graduate Council             |               |                            |                                   |
| Health Care Colleges Council |               |                            |                                   |
| Senate Council Approval      |               | University Senate Approval |                                   |

Comments:

<sup>4</sup> Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

## Undergraduate Forestry Program

### *Proposed Curriculum Revision*

Last Revised 03/04/2016

|                                     | FALL   | SPRING  |
|-------------------------------------|--|---|
| YEAR 1                              | FORESTRY  |   |
|                                     | FOR 100 FORESTS AND FORESTRY 3   | FOR 240 FORESTRY AND NAT. RES. ETHICS 2   |
|                                     | FOR 285 COM. & PROF. DEV. IN FOR. & N.R. I 1   | FOR 255 FOREST FIRE 1   |
|                                     | Humanities 3   | BIO 103 Basic Ideas of Biology (Natural, Physical and Mathematical Sciences) (or BIO 148) 3 |
|                                     | Citizenship - U.S. (GEN 100 Issues in Ag., Food & Env.) 3                                  | Quantitative Foundations (MA 111 or 113 or 123 or 137) 3                                    |
| CIS/WRD 110 (Composition & Comm.) 3 | CIS/WRD 111 (Composition & Communication) 3  |   |
|                                     | Arts and Creativity 3  |   |
|                                     | <i>Forestry Credit Hours 4 Total Credit Hours 13</i>                                       | <i>Forestry Credit Hours 3 Total Credit Hours 15</i>  |
| YEAR 2                              | FOR 200 BASICS OF GEOSPATIAL TECHNOLOGY 3  | FOR 260 FOREST PRODUCTS & WOOD SCIENCE 4  |
|                                     | FOR 219 DENDROLOGY 4   | FOR 330 GIS & SPATIAL ANALYSIS 3  |
|                                     | FOR 250 STATISTICS AND MEASUREMENTS I (Statistical Inferential Reasoning) 4                | PLS 366 FUNDAMENTALS OF SOIL SCIENCE 4  |
|                                     | FOR 280 FOREST RESOURCE POLICY AND LAW 3   | PROFESSIONAL ELECTIVE 3   |
|                                     | CHE 104 Introductory General Chemistry (or CHE 105) 3                                      | Social Sciences 3   |
|                                     | <i>Forestry Credit Hours 14 Total Credit Hours 17</i>                                      | <i>Forestry Credit Hours 11 Total Credit Hours 17</i>                                       |
| YEAR 3                              | FOR 221 WINTER DENDROLOGY (2 <sup>nd</sup> half of semester) 1                             | FOR 286 COM. & PROF. DEV. IN FOR. & N.R. II 1   |
|                                     | FOR 320 FOREST VALUATION & ECONOMICS 3   | FOR 310 INTRO TO FOREST HEALTH & PRO. 1   |
|                                     | FOR 340 FOREST ECOLOGY 4   | FOR 356 FOREST SOILS AND HYDROLOGY 1  |
|                                     | FOR 350 SILVICULTURE 4   | FOR 357 INVENTORY AND MEASUREMENTS II 2   |
|                                     | FOR 370 WILDLIFE BIOLOGY & MANAGEMENT 4  | FOR 358 SILVICULTURAL PRACTICES 3   |
|                                     | FOR 359 FOREST OP. & UTILIZATION 3   |   |
|                                     | FOR 365 WILDLIFE ASSESSMENT 2  |   |
|                                     | <i>Forestry Credit Hours 16 Total Credit Hours 16</i>                                      | <i>Forestry Credit Hours 13 Total Credit Hours 13</i>                                       |
| YEAR 4                              | FOR 400 HUMAN DIMENSIONS OF FORESTRY & NATURAL RESOURCES* 3                                | FOR 435 CONSERVATION BIO. (Global Dynamics) 3   |
|                                     | FOR 402 FOREST ENTOMOLOGY 3  | FOR 480 INTEGRATED FOREST RESOURCE MANAGEMENT* 5  |
|                                     | FOR 425 FOREST MANAGEMENT 4  | PROFESSIONAL ELECTIVE 3   |
|                                     | FOR 460 FOREST HYDROLOGY AND WATERSHED MANAGEMENT 3  | Free Elective 3   |
|                                     | PROFESSIONAL ELECTIVE 3  |   |
|                                     | <i>Forestry Credit Hours 13 Total Credit Hours 16</i>                                      | <i>Forestry Credit Hours 8 Total Credit Hours 14</i>  |

\*Graduation Writing Requirement

|                                      | Credit Hours |
|--------------------------------------|--------------|
| REQUIRED FORESTRY COURSES            | 82           |
| PROFESSIONAL ELECTIVES               | 9            |
| Free Electives                       | 3            |
| Pre-Major Requirements               | 3 (6)        |
| UK Core                              | 24(31)       |
| Total Undergraduate Forestry Program | 121          |

# FORESTRY PROFESSIONAL ELECTIVES

The nine hours of professional electives are designed to give forestry students supplemental coursework to support their career interests. We encourage students to use these professional electives to enhance their knowledge base and build their resume.

Depending on a student's career interest they may take a series of courses in wildlife to help qualify them for the Associate Wildlife Biologist Certification by The Wildlife Society. Students interested in consulting forestry, timber investment management organizations, or forest industry may take courses in business, management, or economics. Students interested in extension or environmental education may take courses in education, leadership, communication, or agriculture. For students planning to attend graduate school, upper-level science courses or statistics may be used. Communication, GIS, policy, and agricultural economics are examples of other areas students

may choose as professional electives. We also encourage students to enroll in study abroad, research, or internship experiences to meet their professional elective requirements.

Students need to visit with their advisors early (freshman or sophomore year) to outline a plan for meeting the professional elective requirement. Be aware that some courses may have prerequisites. In general, the professional electives should be a 300-level or above course.

Below is a list of suggested courses that qualify as professional electives. If a student wants to take a course not on this list, the student must receive approval from the Department of Forestry Undergraduate Programs Committee (UPC). A student must provide a brief, written justification to their advisor for why they should receive approval to take the particular course. The advisor will then share this information with the UPC for final approval.

The professional electives listed below will be updated with additional courses as they are approved by the Department of Forestry Undergraduate Programs Committee.

## Business/Management/Economics

ACC 201 Financial Accounting I (3)  
ACC 202 Managerial Uses Of Accounting Information (3)  
ACC 300 Financial Accounting II (3)  
ACC 301 Intermediate Accounting I (3)  
ACC 302 Intermediate Accounting II (3)  
ACC 324 Accounting Information Systems (3)  
AEC 201 Introduction To Farm And Natural Resource Finance (3)  
AEC 302 Agricultural Management Principles (4)  
AEC 303 Microeconomic Concepts In Agricultural Economics (3)  
AEC 304 Macroeconomic Concepts In Agricultural Economics (3)  
AEC 305 Food And Agricultural Marketing Principles (3)  
AEC 306 Technical Communication In Economics (2)  
AEC 309 International Agriculture, World Food Needs  
And U.S. Trade In Agricultural Products (3)  
AEC 326 Principles Of Environmental Law (3)  
AEC 340 Human Resource Management In Agriculture (3)  
AEC 445G Intro. To Resource And Environmental Economics (3)  
B&E 201 Introduction To Business (3)  
ECO 201 Principles Of Economics I (3)  
ECO 202 Principles Of Economics II (3)  
FIN 360 Principles Of Real Estate (3)  
MGT 292 Introduction To Entrepreneurship (3)  
MGT 301 Business Management (3)  
MGT 450 Negotiations And Conflict Resolution (3)  
MKT 300 Marketing Management (3)  
NRE 545 Resource And Environmental Economics (3)

## Communication/Leadership

CIS 300 Strategic Business And Professional Communication (W) (3)  
CLD 360 Environmental Sociology (3)  
CLD 400 Agricultural Communications Campaigns (3)  
CLD 401 Principles Of Cooperative Extension (3)  
CLD 402 Principles Of Leadership (3)  
CLD 403 Leadership And Communication (3)  
CLD 404 Contemporary Leadership Applications (3)  
NRE 381 Natural Resource And Environmental Policy Analysis (3)  
WRD 425 Environmental Writing (3)

## Experiential Education

FOR 399 Field-Based Education In Forestry (1-3)  
Pre-Approved Study Abroad Courses

## GIS/Remote Sensing/Land Use

GEO 409 Advanced GIS (3)  
GEO 419 Introduction To Remote Sensing (3)  
GEO 506 Introduction To Computer Cartography (3)  
LA 308 Regional Land Use Planning Systems (3)  
LA 457 Contemporary Regional Land Use Planning Applications (3)  
LA/NRE 355 Intro. Geospatial Applications For Land Analysis (3)  
LA/NRE 556 Contemporary Geospatial App. For Land Analysis (3)

## Plant Sciences

BIO 351 Plant Kingdom (3)  
BIO 361 Ecology Of The Kentucky Flora And Vegetation (3)  
BIO/NRE 420G Taxonomy Of Vascular Plants (4)  
FOR 325 Economic Botany: Plants And Human Affairs (3)  
PLS 220 Introduction To Plant Identification (3)  
PLS 320 Woody Horticultural Plants (4)  
PLS 451 Landscape Management And Arboriculture (3)

## Sciences

ABT 360 Genetics (3)  
ABT 361 Genetics Lab Online (1)  
ABT 460 Introduction To Molecular Genetics (3)  
ABT/BIO/ENT/FOR 461 Introduction To Population Genetics (3)  
BIO 300 General Entomology (3)  
NRE/PLS 455G Wetland Delineation (3)  
NRE/PLS 456G Constructed Wetlands (3)

## Wildlife Sciences

FOR 510 Herpetology (4)  
FOR 520 Mammals Of The Eastern United States (4)  
FOR 530 Freshwater Ecology (3)  
FOR 540 Urban Ecology (3)  
FOR 550 U.S. Biodiversity Hotspots (3)  
FOR 560 Landscape Ecology for Natural Resources (3)