FOR 504: The Practice of Silviculture

In Workflow
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2. 15FOR Grad Head (stgower@ncsu.edu)
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7. CNR Dean GR (ag_kirkman@ncsu.edu)
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13. Grad Final Review (george_hodge@ncsu.edu; lian_lynch@ncsu.edu; mlnosbis@ncsu.edu)
14. PeopleSoft (none)

Approval Path
1. Mon, 28 Sep 2015 16:06:30 GMT
   Joseph Roise (joe_roise): Approved for 15FOR GR Director of Curriculum
2. Mon, 28 Sep 2015 16:09:09 GMT
   Joseph Roise (joe_roise): Approved for 15FOR Grad Head
3. Mon, 28 Sep 2015 17:12:33 GMT
   Yvonne Lee (yvonne_lee): Approved for CNR CC Coordinator GR
   Yvonne Lee (yvonne_lee): Rollback to 15FOR GR Director of Curriculum for CNR CC Meeting GR
5. Wed, 27 Jan 2016 15:00:17 GMT
   Joseph Roise (joe_roise): Approved for 15FOR GR Director of Curriculum
   Stith Gower (stgower): Approved for 15FOR Grad Head
7. Tue, 02 Feb 2016 14:36:54 GMT
   Yvonne Lee (yvonne_lee): Approved for CNR CC Coordinator GR
8. Tue, 02 Feb 2016 14:39:17 GMT
   Yvonne Lee (yvonne_lee): Approved for CNR CC Meeting GR
9. Tue, 02 Feb 2016 18:14:18 GMT
   Ilona Peszlen (Ilona_Peszlen): Approved for CNR CC Chair GR
10. Tue, 02 Feb 2016 18:21:15 GMT
    Yvonne Lee (yvonne_lee): Approved for CNR Final Review GR
11. Tue, 02 Feb 2016 22:33:29 GMT
    Adrianna Kirkman (ag_kirkman): Approved for CNR Dean GR
    apgiuli: Approved for apgiuli
13. Mon, 07 Mar 2016 15:01:30 GMT
    Melissa Nosbisch (mlnosbis): Approved for ABGS Coordinator
    Douglas Frederick (doug_frederick): Approved for dfred
15. Mon, 29 Aug 2016 14:39:04 GMT
    Melissa Nosbisch (mlnosbis): Approved for ABGS Meeting

New Course Proposal
Date Submitted: Mon, 28 Sep 2015 14:43:22 GMT
Viewing: FOR 504 : The Practice of Silviculture

Changes proposed by: apgiuli

Change Type
Major

Course Prefix
FOR (Forestry)

Course Number
504

Dual-Level Course
No

Cross-listed Course
No

Title
The Practice of Silviculture

Abbreviated Title
Practice Silviculture

College
College of Natural Resources

Academic Org Code
Forestry (15FOR)

CIP Discipline Specialty Number
03.0501

CIP Discipline Specialty Title
Forestry, General.

Term Offering
Spring Only

Year Offering
Offered Every Year

Effective Date
Spring 2016

Previously taught as Special Topics?
No

Course Delivery
Face-to-Face (On Campus)

Grading Method
Graded/Audit
Credit Hours
3.0

Course Length
15 weeks

Contact Hours
(Per Week)

<table>
<thead>
<tr>
<th>Component Type</th>
<th>Contact Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>3</td>
</tr>
</tbody>
</table>

Course Is Repeatable for Credit
No

Instructor Name
Dr. Doug Frederick

Instructor Title
Professor

Grad Faculty Status
Assoc

Anticipated On-Campus Enrollment
Open when course_delivery = campus OR course_delivery = blended OR course_delivery = flip

<table>
<thead>
<tr>
<th>Enrollment Component</th>
<th>Per Semester</th>
<th>Per Section</th>
<th>Multiple Sections?</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture</td>
<td>15</td>
<td>15</td>
<td>No</td>
<td>None</td>
</tr>
</tbody>
</table>

Course Prerequisites, Corequisites, and Restrictive Statement

Is the course required or an elective for a Curriculum?
No

Catalog Description
The theory and practice of stand regeneration, controlling composition, intermediate treatments and growth; application of the knowledge of silvics in the management of stands. Emphasis on forest communities of North America. Co-requisite course is FOR 506: Silviculture Laboratory (Optional)

Justification for new course:
Increasing numbers of our graduate students arrive without sufficient backgrounds in silviculture, a critical component of some areas of forestry. Years ago we developed a one credit mini-course for FOR 507 in silviculture to address this gap, but experience has shown that course content is too limited for students seeking careers in traditional forest management, where silviculture is a critical skill. This proposed course is needed to provide a more comprehensive coverage of silviculture at the graduate level.

Does this course have a fee?
No

Consultation
Dear Dr. Roise,

I am responding for the Genetics Program to your request for consultation on FOR 504 and 506. We have reviewed the content of these course and find no overlap or pre-requisite relationship with GN 725, Forest Genetics.

Please let me know if you require additional information.

Best wishes,
Stephanie Curtis

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**Instructional Resources Statement**

Reallocation of existing resources and teaching by a recently hired new professor will enable us to offer this course without additional resources.

**Course Objectives/Goals**

**Student Learning Outcomes**

1. Discuss with professionals the ecological basis for the establishment, development and growth of the major forest types in the southeastern United States.

2. Explain the major factors affecting forest productivity in the southeastern United States.

3. Assess the impact that silvicultural prescriptions will have on the species composition, growth, quality, and health of stands.

**Student Evaluation Methods**

<table>
<thead>
<tr>
<th>Evaluation Method</th>
<th>Weighting/Points for Each</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam</td>
<td>50%</td>
<td>written exams</td>
</tr>
<tr>
<td>Written Assignment</td>
<td>50%</td>
<td>writing assignments</td>
</tr>
</tbody>
</table>

**Topical Outline/Course Schedule**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time Devoted to Each Topic</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silviculture and Silvicultural Systems</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Harvesting and Securing Regeneration</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Site Preparation, Natural and Artificial</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Regeneration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nurseries, Tree Planting</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Reproduction Methods</td>
<td>1 wk</td>
<td>Tree Improvement speaker</td>
</tr>
<tr>
<td>Un-even Aged Management</td>
<td>2 wks</td>
<td>Chatham County trip</td>
</tr>
<tr>
<td>Even-aged Management: Clearcutting</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Even-aged Management: Seed Tree and Shelterwood</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Stand Development and Release Cutting</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Thinning Methods</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Improving Stand Quality</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Timber Stand Improvement, Salvage, Sanitation</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Regeneration from Coppice</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
<tr>
<td>Forest Administration</td>
<td>1 wk</td>
<td>Nyland chapters</td>
</tr>
</tbody>
</table>

**Syllabus**

FOR 504 syllabus.docx

**Additional Documentation**
Additional Comments

This course is not currently required but it will be required in the revised Master of Forestry Curriculum (forthcoming).

minosbis 2/3/2016: Possible consult with Genetics DGP (Jim Mahaffey) because of GN 725- Forest Genetics

ghodge 2/8/2016 Ask for genetics consultations. Instructor can not be STAFF; please list graduate faculty who developed the course. Edit student learning outcome in CIM and syllabus as "understand" is not a measurable outcome. In syllabus pg 4 references 3 exams, but only 2 are listed in lecture schedule. Return to department for edits.

ABGS Reviewer Comments:
- More details needed on syllabus about grading and weights for better understanding of what is expected from the student.
- New course, why is it not first taught as a special topics? Such allows flexibility in course refinement and tests the enrollment numbers.
- Syllabus grade is listed as S/U, but a 500-level course must be letter-graded.
- Syllabus does not include a grade calculation.
- Can a corequisite be optional?

ghodge 3/30/2016 Edit syllabus to include:
Add a grading section- explain that there are two exams 25% each and a final project 50% for calculating the semester grade; explain impact of unexcused absences or late assignments on final grade

Remove or edit the section on S/U grading as this is not applicable to a 500 level course

Comment: new courses may be proposed without being first taught as special topics
Comment: a co-requisite could be optional

Course Reviewer Comments

yplee (Wed, 20 Jan 2016 13:05:02 GMT): Rollback: An email has been sent with changes. Please make the requested changes and sent back through the workflow process.

Key: 7911