### Proposal Form For Addition And Revision Of Courses

1. **Proposing College / School:** School of Forestry and Wildlife Sciences
   
   **Department:**

2. **Course Prefix and Number:** FORY 5240/6240
   
   **3. Effective Term:** Fall 2014

4. **Course Title:** Forest Watershed Management
   
   **Abbreviated Title (30 characters or less):** Forest Watershed Management

5. **Requested Action:**
   - [ ] Renumber a Course
   - [ ] Add a Course
   - [ ] Revise a Course
   
   **Current Course Number:**
   
   **Proposed Course Number:**
   
   **Type of Revision:**

6. **Course Credit:**

   | Maximum Hours (Repeatability): | 3 |
   |------------------------------|
   | Contact/Group Hours | 3 |
   | Scheduled Type | Lecture |
   | Weekly or Per Term? | weekly |
   | Credit Hours | 3 |
   | Anticipated Enrollment | 15+ |

   **Total Credit Hours:** 3

7. **Grading Type:**
   - [ ] Regular (ABCDF)
   - [ ] Satisfactory/Unsatisfactory (S/U)
   - [ ] Audit

8. **Prerequisites/Corequisites:**
   - Remove prerequisites: FORY 5230 and BIOL 5140.
   - Add prerequisite: BIOL 1030

9. **Restrictions:** List specific restriction in space above.
   
   - [ ] College
   - [ ] Major
   - [ ] Standing
   - [ ] Degree

10. **Course Description:**
    (20 Words or Less; exactly as it should appear in the Bulletin)

   Introduction to watersheds, effects of land management on erosion and water quality, and mitigation techniques to reduce adverse effects. Spring.

11. **May Count Either:**
    (Indicate if this particular course cannot be counted for credit in addition to another)

<table>
<thead>
<tr>
<th>Program Type</th>
<th>Program Title</th>
<th>Requirement or Elective?</th>
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</thead>
<tbody>
<tr>
<td>Major</td>
<td>Natural Resource Management (NATR)</td>
<td>Required</td>
</tr>
<tr>
<td>Minor</td>
<td>Watershed Sciences</td>
<td>Required</td>
</tr>
</tbody>
</table>

12. **Affected Program(s):**
    (Respond “N/A” if not included in any program; attach memorandum if more space is required)

   - Major: Natural Resource Management (NATR)
   - Minor: Watershed Sciences

13. **Overlapping or Duplication of Other Units’ Offerings:**
    (If course is included in any other degree program, is used as an elective frequently by other unit(s), or is in an area similar to that covered by another college/school, attach correspondence with relevant unit)

   - [ ] Applicable
   - [ ] Not Applicable
14. Justification:
The Natural Resources Management degree requires 3 credit hours for the Restricted Landscape Elective (This class is an option in that set of restricted electives). The additional hour of credit also allows for an expansion of the topics covered and greater depth of coverage.

(Include a concise, yet adequate rationale for the addition/revision of the course, citing accreditation, assessments (faculty, graduate, and/or external) where applicable)

15. Resources:
N/A

(Indicate whether existing resources such as library materials, classroom/labatory space, and faculty appointments are adequate to support the proposed addition/revision; if additional resources are required, indicate how such needs will be met, referencing the appropriate level of authorization -- i.e.: Dean -- where necessary; if no additional resources or shifting of resources will be necessary, respond "Not Applicable")

16. Student Learning Outcomes:
Upon completion of this course, students will:
1) have a comprehensive understanding of the watershed concept;
2) develop knowledge of hydrologic processes within watersheds;
3) have an understanding of the effects of land management practices and activities on erosion processes, site quality, and water quality;
4) have information on techniques, precautions, and procedures, designed to reduce potentially detrimental effects of management activities.
Graduate students enrolled in FORY 6240 will also be capable of:
1) manipulating watershed-level data,
2) analyzing watershed data and putting it into context given the existing scientific literature in the discipline.

(State in measurable terms (reflective of course level) what students should be able to do when they have completed this course)

17. Course Content Outline:
Week 1: Overview of syllabus, introduction to watershed concept and topographic maps; Homework #1 assigned;
Week 2: Weather patterns, relative humidity, storm types; precipitation and precipitation measurements; Unit conversions; Homework #1 due;
Week 3: Interception; Soils overview; Homework #2 due; #3 assigned;
Week 4: Infiltration; Soil loss equations, runoff; Homework #3 due; #4 assigned;
Week 5: Streamflow; stream flow measurements; groundwater; Homework #4 due;
Week 6: Vegetation Mgmt; Water Yield and Streamflow Pattern; Test #1;
Week 7: Surface erosion; control of erosion on upland watersheds; Homework #5 assigned;
Week 8: Control of erosion on upland watersheds, gully erosion; soil mass movement; Homework #5 due;
Week 9: Sediment yield; channel processes; stream channel morphology; Homework #6 assigned;
Week 10: Stream classification; water quality characteristics; Homework #6;
Week 11: Water quality management; riparian management; Test #2;
Week 12: Wetland Hydrology and Management; Homework #7 assigned;
Week 13: Watershed considerations for water resource development; Hydrologic methods; Homework #7 due;
Week 14: Implementing watershed management policy, planning and economic evaluation issues;

(Provide a comprehensive, week-by-week breakdown of course content, including assignment due dates)

18. Assignments / Projects:
Assignment #1: Topographic map exercise and delineation of a watershed; includes calculation of watershed size;
Assignment #2: Problem set on the water balance; unit conversions; precipitation averages;
Assignment #3: Problem set on subsurface water (bulk density; water content by volume and by inches; % volume);
Assignment #4: Soil loss estimates;
Test #1: Watershed concept; topographic maps; weather patterns; relative
humidity; storm types; precipitation; unit conversions; interception; soils; infiltration; soil loss equations; groundwater; Assignment #5: Water yield calculations; Assignment #6: Question set on stream channels; Test #2: Vegetation management; water yield; streamflow pattern; surface erosion; control of erosion; gully erosion; soil mass movement; sediment yield; channel processes; stream channel morphology; stream classification; water quality characteristics; water quality management; Assignment #7: Question set on water quality; wetlands and riparian management; Final Exam: questions on new material (wetland hydrology and management; resource development; hydrologic methods; policy, planning and economic issues;) Comprehensive portion will address topics covered by test #1 and test #2.

Graduate students enrolled in FORY 6240 will do all of the assignments above but the problems and questions will be more complex and the tests more in depth; In addition, graduate students will write a 20-page paper on a project to be determined in consultation with the instructor. The project will involve manipulation of a data set either a) provided by the instructor or b) related to the individual student's graduate research. The student will analyze the data set, interpret the results and write up in a final report incorporating appropriate referred articles.

(List all quizzes, projects, reports, activities and other components of the course grade -- including a brief description of each assignment that clarifies its contribution to the course’s learning objectives)

19. Rubric and Grading Scale:

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<tr>
<th>Component</th>
<th>Weight</th>
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<td>FORY 6240</td>
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<tr>
<td>Test #1</td>
<td>20%</td>
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<tr>
<td>Test #2</td>
<td>20%</td>
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<td>Final Exam</td>
<td>30%</td>
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<td>Homework</td>
<td>30%</td>
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<td>FORY 6240</td>
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<tr>
<td>Test #1</td>
<td>15%</td>
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<tr>
<td>Test #2</td>
<td>15%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>Homework</td>
<td>25%</td>
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<tr>
<td>Project/Paper</td>
<td>25%</td>
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<tr>
<td>Grading Scale</td>
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<td>90-100=A</td>
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<td>80-89=B</td>
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<td>70-79=C</td>
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<td>60-69=D</td>
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<tr>
<td>&lt;60=F</td>
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(List all components of the course grade -- including attendance and/or participation if relevant -- with point totals for each; indicate point totals and ranges or percentages for grading scale; for S/U grading, detail performance expectations for a passing grade)

20. Justification for Graduate Credit:

Homework assignments for graduate students will be more complex than for the undergraduate students. The graduate student exams will ask for more in-depth knowledge than will be expected from the undergraduates. The graduate students will be required to complete a project/paper. They will have two options: Option A: They may choose to be given a data set that must be analyzed and interpreted. They will be expected to interpret the data and put the results in context using current scientific literature and present their work in the format of a scientific journal. Option B: They may choose to develop a topic relevant to their graduate research project IF the topic is related to the concepts covered in class. They will be expected to present a data set, interpret the data and explain it using current scientific literature. They will present their work in the format of a scientific journal from their field of study.

(Include a brief statement explaining how the course meets graduate educational standards (i.e.: rigorous standards for evaluation, development of critical thinking and analytical skills, etc.))
(Included below are standard statements regarding course policies. If necessary, a statement may be altered to reflect the academic policies of individual faculty members and/or the academic unit or department, provided that there is no conflict with the Student Policy eHandbook, Faculty Handbook, or any existing university policy.)

POLICY STATEMENTS

Attendance: Although attendance is not required, students are expected to attend all classes, and will be held responsible for any content covered in the event of an absence.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student's immediate family, the death of a member of the student's immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoenas for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact the instructor in advance of the absence to request permission. The instructor will weigh the merits of the request, and render a decision. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please consult the Student Policy eHandbook for more information on excused absences.

Make-Up Policy: Arrangement to make up a missed major examination (e.g., hour exams, mid-term exams) due to properly authorized excused absences must be initiated by the student within one week of the end of the period of the excused absence(s). Except in unusual circumstances, such as the continued absence of the student or the advent of university holidays, a make-up exam will take place within two weeks of the date that the student initiates arrangements for it. Except in extraordinary circumstances, no make-up exams will be arranged during the last three days before the final exam period begins.

Academic Honesty Policy: All portions of the Auburn University student academic honesty code (Title XII) found in the Student Policy eHandbook will apply to university courses. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee.

Disability Accommodations: Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2066 (V/TDD).
Instructor: Dr. Kathryn Flynn  
Office: 4339 Forestry and Wildlife Sciences Building and 108 Cater Hall  
Phone: 844-1036 and 844-7277  
Email: flynnka@auburn.edu  
Office Hours: Monday 8:00-11:00 in 4339 Forestry and Wildlife and Friday 1:00-3:00 in 108 Cater Hall  
(See “Instructor Availability” section below for additional information.)

I. Course Objectives: To introduce you to the watershed concept. To provide you with an understanding of the effects of forestry and other land management practices and activities on erosion processes, site quality, and water quality. To provide you with information on techniques, precautions, and procedures, designed to reduce potentially detrimental effects of management activities.


III. Structure of the Course:
• Two 50-minute lectures each week, on Monday and Wednesday at 11:00 AM in 1223 Forestry and Wildlife Sciences Building.
• A tentative topic schedule is included at the end of the syllabus.
• Handouts will be provided as appropriate.
• Homework will be assigned and graded. Homework must be turned in as hard copy at the start of class on the day it is due. Do not submit homework via email.
• Tests: You will be tested on class notes, reading assignments and homework assignments.
IV. Examinations: A mid-term and a final exam will be given. The mid-term is tentatively scheduled for February 22. The final will be given during the time scheduled by the University (Friday, May 4 12:00 pm-2:30 pm, Room 1223 Forestry and Wildlife Sciences Building). A test code will be used so that exams can be graded anonymously.

IVa. Make-Up Exam Policy
Arrangement to make up missed major examination (e.g. hour exams, mid-term exams) due to properly authorized excused absences shall be initiated by the student within one week from the end of the period of the excused absences. Normally, a make-up exam shall occur within two weeks from the time that the student initiates arrangements for it. Instructors are encouraged to refrain from giving make-up examinations during the last three days prior to the first day of final examinations. The format of make-up exams and opportunities for students to make up work other than major examinations are at the discretion of the instructor.

V. Class Attendance Policy: Attendance at lectures is expected and failure to attend will affect your final grade. Students who fail to attend class usually do not do as well as those who attend faithfully. Consequently, there will be a penalty for unexcused absences. You will have 2 penalty-free unexcused absences. Each class missed after the two free absences and which are not excused absences will result in a 5 point reduction in your final grade.

A sign-in sheet will be passed around at the beginning of each class. It is your responsibility to sign the sheet. If you come in late, make sure you add your name to the list because I will have no other way of knowing you were in class when I calculate grades. You cannot sign in as present if you miss more than 25 minutes of a lecture.

If you miss class, regardless of the reason, it is your responsibility to obtain class notes, information on assigned readings and homework assignments. If you miss class due to an excused absence on a day when an assignment is made, you will be given a comparable amount of time to complete the assignment. If you have an excused absence on the day an assignment is due, you must turn the work in at the start of class no later than the second day you are back in class. Failure to do this, will result in a 10% penalty for each calendar day beyond your second day back in class. Homework will not be accepted after the due date if the absence is not excused. If you miss
class you must provide information on why you missed within one week of the absence (in other words, don't wait until the end of the semester to bring in doctor or other excuses).

VI. Grading:
FORY 5240: Grades will be based on the two examinations, homework assignments, pop quizzes and attendance.
- Midterm: 35%
- Final: 35%
- Homework: 30%

FORY 6240: Grades will be based on the two examinations, pop quizzes, a term paper and homework assignments.
- Midterm: 25%
- Final: 25%
- Homework: 30%
- Term Paper: 20% (Note: topic outline is worth 3 %)

The intent of the term paper is to encourage you to link the concepts learned in this class to the work you are doing in your graduate program. You should submit a brief outline describing your potential topic sometime between February 6 and February 29th. The paper should be between 12-15 pages in length and is due on April 18. The paper should be double-spaced, written in a format appropriate to your discipline area and include a reference list of no fewer than 10 scientific sources. Sources used must be cited in the text. Be careful to avoid plagiarism.

FORY 5240/6240
Final letter grades will be:

90+ - A
80-89 - B
70-79 - C
60-69 - D
< 60 - F
VII. Classroom Behaviour. Cell phones are to be turned off before class begins. There is to be no texting, internet surfing or other forms of electronic communication during the class. Please let me know before class starts if you will be leaving class early. Exceptions to this apply to illness. If you are in class, feel ill and need to leave, please do so.

Use of tobacco products in class is prohibited. Do not come to class with chewing tobacco or snuff. No spit cups are allowed in class.

You are encouraged to ask questions during class, but private conversations must wait until the class is over. Students who exhibit a pattern of talking during class will be asked to leave. It is expected that all students will treat each other and the instructor with respect.

VIII. Instructor Availability: You are encouraged to ask questions or initiate discussions both in and out of class. In addition to the office hours listed above, feel free to schedule meetings outside of my listed office hours. You can use e-mail (flynnka@auburn.edu) or phone (844-1036 or 844-7277) to ask questions or set up meetings. I have two offices and serve on several University level committees, so I encourage you to set up an appointment if you cannot come to my office during my regular office hours.

The instructor will adhere to University Policies as described on the University Policies website:

https://sites.auburn.edu/admin/universitypolicies/default.aspx

IX. Special Accommodations. Students who need special accommodations should make an appointment to discuss the Accommodation Memo as soon as possible. Please make every effort to discuss your particular issue in a private setting to ensure confidentiality. I will do everything in my power to accommodate documented needs, but will not do so until I have official notification of such needs. If you do not have an Accommodation Memo, but need special accommodations, contact The Office of Accessibility in 1228 Haley Center (844-2096 V/TTY)

X. Academic Honesty. Auburn University expects students to pursue their academic work with honesty and integrity. Violations of the Student Academic Honesty Code and potential sanctions are detailed on the University Policies website:
https://sites.auburn.edu/admin/universitypolicies/Policies/AcademicHonestyCode.pdf. I have reported students for academic dishonesty and would do so again. I am a reasonable person and if you have a problem please talk to me about it early rather than waiting and potentially creating a bigger problem.

XI. Absences: If you must be absent, and the absence is listed as a recognized reason for an excused absence (illness, death, etc.), please let me know as soon as possible and provide documentation. See https://sites.auburn.edu/admin/universitypolicies/Policies/PolicyonClassAttendance.pdf for additional information.

XI. Class Communications: It is possible that course-related email will be sent to your Auburn email account. Please make a habit of checking this account.

X. Course Contingency Plan: If normal class and/or lab activities are disrupted due to illness, emergency, or crisis situation (such as an H1N1 flu outbreak), the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, an addendum to your syllabus and/or course assignments will replace the original materials.

General Class Calendar:

Jan. 9 Distribution of syllabus, discussion of class objectives and policies, introductory material.
Jan. 16 Martin Luther King Day—no class
Jan. 30 15th class day
Feb. 22 Tentative date of mid-term
**Feb. 28** Mid-semester--last day to drop classes without receiving a “W”
Mar 12-16 SPRING BREAK
April 25 Last day of class
April 26, 27 Study/Reading Days
May 4 Final, 12:00-2:30 pm, Room 1223
<table>
<thead>
<tr>
<th>Date</th>
<th>Monday</th>
<th>Topic</th>
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</thead>
<tbody>
<tr>
<td>January 9</td>
<td>(M)</td>
<td>First day of classes--cancelled</td>
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<tr>
<td>January 11</td>
<td>(W)</td>
<td>Overview of syllabus, Introductory material</td>
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<tr>
<td>January 18</td>
<td>(W)</td>
<td>Topographic Maps, Handouts, Homework #1 distributed</td>
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<td>January 23</td>
<td>(M)</td>
<td>Chap. 2: Precipitation and Interception, pp. 23-46</td>
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<td>January 25</td>
<td>(W)</td>
<td>Chap. 2, continued</td>
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<td>January 30</td>
<td>(M)</td>
<td>Chapter 3: Evapotranspiration and Soil Water Storage, pp. 47-76</td>
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<td>February 1</td>
<td>(W)</td>
<td>Chap. 3, continued, Homework #2 (for Chap. 2-3) distributed</td>
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<td>February 6</td>
<td>(M)</td>
<td>Chapter 4: Infiltration, Runoff and Streamflow, pp. 77-105;</td>
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<td>February 8</td>
<td>(W)</td>
<td>Chap. 4, continued, Homework #3 (for Chap. 4)</td>
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<td>February 13</td>
<td>(M)</td>
<td>Chapter 5: Groundwater</td>
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<td>February 20</td>
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<td>Chap. 6, continued, Homework #4 (for Chap. 5-6) distributed</td>
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<td>February 22</td>
<td>(W)</td>
<td>Chapter 7: Surface Erosion and Control of Erosion on Upland Watersheds, pp. 157-187</td>
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<td>February 27</td>
<td>(M)</td>
<td>Chap. 7, continued</td>
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<tr>
<td>February 29</td>
<td>(W)</td>
<td>Mid-term Exam (Chap. 1-6)</td>
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<tr>
<td>Date</td>
<td>Chapter</td>
<td>Notes</td>
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<td>March 5 (M)</td>
<td>Chapter 8: Gully Erosion and Soil Mass Movement, pp 189-209, Homework #5 (Chap. 7-8)</td>
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<td>March 7 (W)</td>
<td>Chap. 8, continued</td>
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<td>March 19 (M)</td>
<td>Chapter 9: Sediment Yield and Channel Processes, pp. 211-229</td>
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<td>March 21 (W)</td>
<td>Chap. 9, continued</td>
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<td>March 26 (M)</td>
<td>Chapter 10: Stream Channel Morphology and Stream Classification, pp. 231-252, Homework #6 (for Chap. 9-10)</td>
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<td>March 28 (W)</td>
<td>Chap. 10, continued</td>
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<td>April 2 (M)</td>
<td>Chapter 11: Water Quality Characteristics, pp. 257-282</td>
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<td>April 4 (W)</td>
<td>Chap. 11, continued</td>
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<td>April 9 (M)</td>
<td>Chapter 12: Water Quality Management, pp. 283-305</td>
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<td>April 11 (W)</td>
<td>Chap. 12, continued, Homework #7 (Chap. 11-12)</td>
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<td>April 16 (M)</td>
<td>Chapter 13: Riparian Management, pp. 309-344</td>
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<td>April 18 (W)</td>
<td>Chap. 13, continued</td>
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<td>April 23 (M)</td>
<td>Chapter 14: Wetland Hydrology and Management, pp. 345-368</td>
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<td>April 25 (W)</td>
<td>Chap. 14, continued</td>
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<tr>
<td>May 4 (F)</td>
<td>Final Exam, 12:00-2:30, Room 1223</td>
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</table>
I. Course Objectives: To 1) obtain a comprehensive understanding of the watershed concept; 2) develop your knowledge of hydrologic processes within watersheds; 3) provide you with an understanding of the effects of land management practices and activities on erosion processes, site quality, and water quality; and 4) provide you with information on techniques, precautions, and procedures, designed to reduce potentially detrimental effects of management activities.

Students enrolled in FORY 6240 should also be capable of manipulating watershed-level data, analyzing it and putting it into context through use of existing scientific literature.


III. Structure of the Course:
- Three 50-minute lectures each week, on Monday, Wednesday and Friday at 11:00 AM in 1223 Forestry and Wildlife Sciences Building.
- A tentative topic schedule is included at the end of the syllabus.
- Handouts and on-line resource information will be provided as appropriate.
- **Homework** will be assigned and graded. Homework must be turned in as hard copy at the start of class on the day it is due or via CANVAS. Homework submitted via email will not be accepted.
• **Tests:** You will be tested on class notes, reading assignments and homework assignments.

**IV. Examinations:** Two tests and a comprehensive final will be given. The final will be given during the time scheduled by the University. A test code will be used so that exams can be graded anonymously.

**V. Grading:**

**FORY 5240:** Grades will be based on the two tests, the final exam, homework assignments, and attendance.
- Test #1: 20%
- Test #2: 20%
- Final: 30%
- Homework: 30%

**FORY 6240:** Grades will be based on the two tests, the final exam, a term paper and homework assignments.
- Test #1: 15%
- Test #2: 15%
- Final: 20%
- Homework: 20%
- Project/Paper: 30% (Note: topic outline is worth 3%)

The intent of the Project/paper is to encourage you to link the concepts learned in this class to real watersheds. Graduate students will have two options:

Option A: May chose to be given a data set that must be analyzed, interpreted and explained. The graduate students will be expected to interpret the data and put it into context using current scientific literature in their discussion. The paper must be presented in the format of a scientific journal.

Option B: May chose to develop a topic relevant to their graduate research and to the topics covered in class. The student will be expected to present, analyze and interpret the data using current scientific literature in their discussion. The paper must be presented in the format of a scientific journal.
Each student must submit a brief outline sometime between February 6 and March 1. The paper should be 20 pages in length (excluding references cited) and is due on April 18th. The paper should be double-spaced, written in a format appropriate to the students discipline and include a reference list of no fewer than 15 scientific sources. Sources used must be cited in the text. Be careful to avoid plagiarism.

**FORY 5240/6240**

Final letter grades will be:

- 90+ - A
- 80-89 - B
- 70-79 - C
- 60-69 - D
- < 60 - F

**VI. Classroom Behavior.** Cell phones are to be turned off before class begins. There is to be no texting, internet surfing or other forms of electronic communication during the class. Please let me know before class starts if you will be leaving class early. Exceptions to this apply to illness. If you are in class, feel ill and need to leave, please do so.

Use of tobacco products in class is prohibited. Do not come to class with chewing tobacco or snuff. No spit cups are allowed in class.

You are encouraged to ask questions during class, but private conversations must wait until the class is over. Students who exhibit a pattern of talking during class will be asked to leave. It is expected that all students will treat each other and the instructor with respect.

**VII. Instructor Availability:** You are encouraged to ask questions or initiate discussions both in and out of class. In addition to the office hours listed above, feel free to schedule meetings outside of my listed office hours. You can use e-mail (flynnka@auburn.edu) or phone (844-1036 or 844-7277) to ask questions or set up meetings. I have two offices and serve on several University level committees, so I encourage you to set up an appointment if you cannot come to my office during my regular office hours.
POLICY STATEMENTS
The instructor will adhere to University Policies as described on the University Policies website:
https://sites.auburn.edu/admin/universitypolicies/default.aspx

Class Attendance Policy: Attendance at lectures is expected and failure to attend will affect your final grade. Students who fail to attend class usually do not do as well as those who attend faithfully. You will be held responsible for any content covered in the event of an absence.

A sign-in sheet will be passed around at the beginning of each class. It is your responsibility to sign the sheet. If you come in late, make sure you add your name to the list because I will have no other way of knowing you were in class. You cannot sign in as present if you miss more than 25 minutes of a lecture. Students who miss more than 6 classes without an acceptable excuse will receive a grade of “FA”.

Excused Absences: Students are granted excused absences from class for the following reasons: illness of the student or serious illness of a member of the student's immediate family, the death of a member of the student's immediate family, trips for student organizations sponsored by an academic unit, trips for university classes, trips for participation in intercollegiate athletic events, subpoena for a court appearance, and religious holidays. Students who wish to have an excused absence from class for any other reason must contact the instructor in advance of the absence to request permission. The instructor will weigh the merits of the request, and render a decision. When feasible, the student must notify the instructor prior to the occurrence of any excused absences, but in no case shall such notification occur more than one week after the absence. Appropriate documentation for all excused absences is required. Please consult the Student Policy e-Handbook for more information on excused absences. See https://sites.auburn.edu/admin/universitypolicies/Policies/PolicyonClassAttendance.pdf for additional information.

If you miss class, regardless of the reason, it is your responsibility to obtain class notes, information on assigned readings and homework assignments. If you miss class due to an excused absence on a day when an assignment is made, you will be given a comparable amount of time to complete the assignment. If you have an excused absence on the day an assignment is due, you must turn the work in at the start of class no later than the second
day you are back in class. Failure to do so, will result in a 10% penalty for each calendar day beyond your second day back in class. Homework will not be accepted after the due date if the absence is not excused. If you miss provide your excuse within one week of the absence (in other words, don't wait until the end of the semester to bring in doctor or other excuses).

**Make-Up Policy:** Arrangement to make up a missed major examination (e.g.: hour exams, mid-term exams) due to properly authorized excused absences must be initiated by the student within one week of the end of the period of the excused absence(s). Except in unusual circumstances, such as the continued absence of the student or the advent of university holidays, a make-up exam will take place within two weeks of the date that the student initiates arrangements for it. Except in extraordinary circumstances, no make-up exams will be arranged during the last three days before the final exam period begins.

**Academic Honesty Policy:** All portions of the Auburn University student academic honesty code (Title XII) found in the Student Policy eHandbook will apply to university courses. All academic honesty violations or alleged violations of the SGA Code of Laws will be reported to the Office of the Provost, which will then refer the case to the Academic Honesty Committee. For more information see: [https://sites.auburn.edu/admin/universitypolicies/Policies/AcademicHonestyCode.pdf](https://sites.auburn.edu/admin/universitypolicies/Policies/AcademicHonestyCode.pdf)

**Disability Accommodations:** Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).

**Class Communications:** It is possible that course-related email will be sent to your Auburn email account. Please make a habit of checking this account. The class will also use CANVAS.
**Course Contingency Plan:** If normal class and/or lab activities are disrupted due to illness, emergency, or crisis situation, the syllabus and other course plans and assignments may be modified to allow completion of the course. If this occurs, an addendum to your syllabus and/or course assignments will replace the original materials.

**General Class Calendar:**

- **Jan. 9**  Distribution of syllabus, discussion of class objectives and policies, introductory material.

- **Jan. 21**  Martin Luther King Day—no class

- **Jan. 30**  15th class day
  - last day to drop from course with no grade assignment
  - last day for potential tuition refund for dropped classes

- **Feb. 22**  Tentative date of mid-term

- **Feb. 28**  **Mid-semester** (36th class day)
  - last day to drop withdraw from course with no grade penalty. “W” assigned.
  - Student deadline for request to move finals

- **Mar 7**  41st class day
  - Student deadline for request to move finals to Associate Deans

- **Mar 11-15**  SPRING BREAK

- **April 26**  Last day of class

- **April 27, 28**  Study/Reading Days

- **TBA**  Final Exam
Tentative Class Schedule (Dates subject to change)

Week 1  Overview of syllabus, Introductory material
        Introductory material; Topographic maps
        Topographic Maps, Handouts; Homework #1
        assigned

Week 2  Weather patterns, relative humidity, storms
        Precipitation, Precipitation measurements
        Unit Conversions; Homework #1 due; Homework
        #2 assigned

Week 3  Interception; Soils
        Homework #2 due; Homework #3 assigned

Week 4  Infiltration; Soil loss equations; runoff; Homework
        #3 due; Homework #4 assigned

Week 5  Streamflow; streamflow measurements;
        groundwater; Homework #4 due

Week 6  Vegetation Management; Water yield and
        streamflow patterns;
        Test #1

Week 7  Surface erosion; control of erosion on upland
        watersheds; Homework #5 assigned

Week 8  Control of erosion on upland watersheds; gully
        erosion; soil mass movement; Homework #5 due

Week 9  Sediment yield; channel processes; stream channel
        morphology; Homework #6 assigned

Week 10 Stream classification; water quality characteristics;
        Homework #6 due

Week 11 Water quality management; riparian management;
        Test #2
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<tr>
<th>Week 12</th>
<th>Wetland hydrology and management; Homework #7 assigned</th>
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<tr>
<td>Week 13</td>
<td>Watershed conditions for water resource development; hydrologic methods; Homework #7 due</td>
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<tr>
<td>Week 14</td>
<td>Implementing watershed management policy, planning and economic evaluation issues</td>
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