Wilkes University Curriculum Committee

PROPOSAL SUBMITTAL FORM

1. Originator: Name
   Department
   Phone and email
   Dr. Brian Whitman, Chairperson
   EEES
   570-408-4882

2. Proposal Title: Prerequisite Changes to EES 240 Principles of Environmental Engineering & Science and ENV 353 Air Pollution Control

3. Check only one type of proposal: (double click on the appropriate check box and change default value to “checked”).
   - [ ] New Program. (Major or Minor Degree Programs). This requires prior review and approval by the Provost and APC.
   - [ ] Elimination of Program. (Major or Minor Degree Programs). This requires prior review and approval by the Provost and APC.
   - [ ] Program Revision. Significant revisions to a program require review and approval by the Provost. The Provost determines if review and approval by APC is necessary.
   - [ ] General Education Revision: Submissions only accepted from the General Education Committee (GEC). Must be reviewed and approved by the Provost.
   - [x] Creation of new departments, elimination of existing department. This requires prior review and approval by the Provost and APC.
   - [ ] Course additions or deletions not affecting programs (such as elective courses, transition of “topics” courses to permanent courses).
   - [ ] Change in course credit or classroom hours.
   - [ ] Incidental Changes. Includes changes in course/program title, course descriptions, and course prerequisites. (Although these changes do require approval by the Curriculum Committee, they do not go before the full faculty for approval).
   - [ ] Other (Specify)

4. Indicate the number of course modification forms that apply to this proposal:
   - [ ] Course Addition Form (plus syllabi)
   - [ ] Course Deletion Form
   - [2] Course Change Form

5. Executive Summary of Proposal.

EES 240 Principles of Environmental Engineering and Science is a required course for all B.S. programs offered by the Environmental Engineering and Earth Sciences Department. This is course that requires knowledge of Calculus; however a student currently taking MTH 111 or higher would
have the background in mathematics to be successful in this course. The proposed change is to require MTH 111 as a co-requisite instead of a prerequisite for this course.

ENV 353 Air Pollution Control is a required course for graduation in the B.S. in Environmental Engineering program. Being a design-oriented course, this course can serve as a technical elective for students in other engineering disciplines. The proposed change in the prerequisites for the course will provide an opportunity for students in other engineering majors to enroll in the course.

Neither of these proposed changes to the course prerequisite requirements affects any other program.

6. Signatures and Recommendations. (please date)
   - Signatures of involved Department chair(s) and Dean(s) indicate agreement with the proposal and that adequate resources (library, faculty, technology) are available to support proposal.
   - If a potential signatory disagrees with a proposal he/she should write “I disagree with this proposal” and a signed statement should be attached to this submission.

   Brian E. Whitman, Environmental Engineering and Earth Sciences
   
   Terese M. Wignot, College of Science and Engineering

   Susan Hritzak, Registrar

Anne Skleder, Provost (For new programs, significant revisions and revisions to the General Education Program revisions only).

   Provost should check here _____ if this proposal is a program revision AND the significance of the revision requires review and approval by APC prior to Curriculum Committee.
Wilkes University Curriculum Committee  
COURSE CHANGE FORM

**Directions:** Use this form to change information relating to an existing course. Please note, changes to course number require separate course addition/deletion forms (not this form!). Only indicate changes that are proposed (existing and proposed), other fields should be left blank.

**Course Number:** EES 240  
**Course Title:** Principles of Environmental Engineering & Science

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Principles of Environmental Engineering &amp; Science</td>
<td>Principles of Environmental Engineering &amp; Science</td>
</tr>
<tr>
<td>Course Credit hours. (Indicate classroom, lab or “other” hours.</td>
<td>4 (3 hours lecture plus 3 hours lab per week)</td>
<td>4 (3 hours lecture plus 3 hours lab per week)</td>
</tr>
<tr>
<td>Course Prerequisites</td>
<td>Prerequisite: MTH 111</td>
<td>Co-requisite: MTH 111</td>
</tr>
<tr>
<td>Course Description (as proposed for Bulletin)</td>
<td>A study of physical, chemical, and biological components of environmental systems and a discussion of processes involved in water quality management, air quality management, waste management, and sustainability. Three hours of lecture and three hours of lab per week. Prerequisite: MTH 111.</td>
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</tr>
</tbody>
</table>

1 Course descriptions provide an overview of the topics covered. If the course is offered on a scheduled basis, i.e. every other year, or only during a set semester, note this in the description. Course descriptions should be no more than two to three sentences in length.
Wilkes University Curriculum Committee
COURSE CHANGE FORM

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Course Number: ENV 353
Course Title: Air Pollution Control

<table>
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<tbody>
<tr>
<td>Course Title</td>
<td>Air Pollution Control</td>
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</tr>
<tr>
<td>Course Credit hours. (Indicate classroom, lab or “other” hours.)</td>
<td>3 (3 hours lecture per week)</td>
<td>3 (3 hours lecture per week)</td>
</tr>
<tr>
<td>Course Prerequisites</td>
<td>ENV 332</td>
<td>ENV 332 or Instructor’s Permission</td>
</tr>
<tr>
<td>Course Description (as proposed for Bulletin)¹</td>
<td>This course provides the philosophy and procedures for design of air pollution control systems. Methods used for controlling airborne emissions of gases, aerosols, and organic vapors are covered. Designs are carried out based on data for typical systems. Evaluations of alternatives with cost comparisons are also presented. Three hours of lecture per week. Prerequisite: ENV 332.</td>
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