Wilkes University Curriculum Committee
PROPOSAL SUBMITTAL FORM

Directions:
1. Originator: Brian Whitman
   Environmental Engineering and Earth Sciences
   570-408-4882   brian.whitman@wilkes.edu

2. Proposal Title: Incidental changes to ENV 321 (Hydrology) and ENV 352 (Environmental Engineering Hydraulics)

3. Check only one type of proposal: (double click on the appropriate check box and change default value to "checked"). Each different type of proposal must be submitted on a separate form.
   □ New Program. (Major or Minor Degree Programs). This requires prior review and approval by the Provost and APC. Major = minimum of 30 credits, minor = minimum of 18 credits.
   □ New Concentration, Track, or Certificate. The Provost determines if review and approval by APC is necessary. Concentration – minimum of 12 credits, certification, endorsement and track are discipline specific.
   □ Elimination of Program. (Major or Minor Degree Programs). This requires prior review and approval by the Provost and APC.
   □ Elimination of Concentration, Track, or Certificate. The Provost determines if review and approval by APC is necessary.
   □ 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.
   □ 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)

Indicate the number of course modification forms that apply to this proposal:

   ______ Course Addition Form (Attach Syllabi: refer to Faculty Handbook for requirements)
   ______ Course Deletion Form
   ______ Course Change Form

Revised 4/30/2018
4. Executive Summary of Proposal.

Briefly summarize this proposal. The breadth and depth of this executive summary should reflect the complexity and significance of the proposal. Include an overview of the proposal, background and reasoning behind the proposal and a description of how the proposal relates to the mission and strategic long-range plan of the unit and/or university. For incidental changes a one or two sentence explanation is adequate.

ENV 352 is a senior-level engineering design course that focuses on hydraulic design of pipe networks including pumping stations, network layout, pipe materials, and appurtenances. Hydraulic modeling software common in industry (WaterGems, SewerGems, CivilStorm, and FlowMaster by Bentley Systems, Inc.) is used throughout the course. This course has served students in both the Environmental Engineering (requirement) and Mechanical Engineering (technical elective) programs. The new proposed course title would be better recognized for what the course content covers when viewed on transcripts and resumes (when listed), and better reflect that this course has content that is not solely used by Environmental Engineers as the current course title seems to indicate.

ENV 321 is a junior-level course serving all programs in the Environmental Engineering and Earth Sciences Department. The course description for this course starts with this sentence: “A quantitative analysis of the physical elements and processes that constitute the hydrologic cycle.” To adequately cover quantitative hydrology, a background in calculus is needed when evaluating dynamic systems (stormwater runoff, infiltration, groundwater hydraulics, etc.). Students without completing any calculus course are at a significant disadvantage to be successful in this course. Requiring MTH 111 (Calculus I) will ensure the students entering this course have developed the basic computational needs to address problems in quantitative hydrology.

5. Other specific information.

What other programs, if any, will be affected by this proposal? Describe what resources are available for this proposal. Are they adequate? What would be the effect on the curriculum of all potentially affected programs if this proposal were adopted? Include any potential effects to the curriculum of current programs, departments and courses.

ENV 352 (Environmental Engineering Hydraulics) is occasionally taken by Mechanical Engineering students as a technical elective; however, a course title change would not directly affect that program.

Revised 4/17/2018
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.

Markel Troy, Chair  
Print Name/Title EEES  
Department chair(s) of all potentially affected programs  
Signature  
Date 10/25/18

PRAHLAD MURTHY  
Print Name/Title Int. Dean, CSE  
Signature  
Dean(s) of any potentially affected College/School.  
Date 11-1-18

SUSAN Hritzak  
Signature  
Registrar  
Date 11/6/18

Revised 4/17/2018
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:  _ ENV 321________
Course Title:    _ Hydrology________

Effective Date of Course Change (semester/year)  _ Fall 2019 _________________

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Existing</th>
<th>Proposed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Credit hours. (Indicate classroom, lab or “other” hours.)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Course Prerequisites</td>
<td>EES 211</td>
<td>EES 211 and MTH 111</td>
</tr>
<tr>
<td>Course Description (as proposed for Bulletin)</td>
<td></td>
<td></td>
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</tbody>
</table>

_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._

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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:     ___ ENV 352 _______
Course Title:      ___ Environmental Engineering Hydraulics _______

Effective Date of Course Change (semester/year)     _____ Spring 2020 ____________

<table>
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<tr>
<th>Course Title</th>
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<tbody>
<tr>
<td></td>
<td>Environmental Engineering</td>
<td>Hydraulic Engineering</td>
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<tr>
<td>Hydraulics</td>
<td></td>
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</tr>
</tbody>
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Course Credit hours.
(Indicate classroom, lab or "other" hours.

Course Prerequisites

Course Description
(as proposed for Bulletin)

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.

Revised 4/17/2018