

**UCC/UGC/ECCC**

Proposal for Course Change

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| **FAST TRACK (Select if this will** **be a fast track item. Refer to**  [***Fast Track Policy***](http://www4.nau.edu/avpaa/UCCPolicy/Agenda_FastTrack_Consent.docx) **for eligibility)** |

# *If the changes included in this proposal are significant, attach copies of original and proposed syllabi in* [*approved university format*](http://www4.nau.edu/avpaa/UCCForms/syllabus.doc)*.*

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| 1. Course subject and number: | **CENE 333** | 2. Units: | **3** |

[**See upper and lower division undergraduate course definitions**](http://www4.nau.edu/avpaa/UCCPolicy/Uplow.doc).

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| 3. College: | CEFNS | 4. Academic Unit: | CECMEE |

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| 5. Current Student Learning Outcomes of the course.   1. Use the conservation laws. (A,E) 2. Develop engineering expressions used in hydraulic design. (B,E,K) | Show the proposed changes in this column (if applicable). Bold the proposed changes in this column to differentiate from what is not changing, and Bold with strikethrough what is being deleted. *(*[*Resources & Examples for Developing Course Learning Outcomes*](http://www4.nau.edu/avpaa/Assessment/CourseLearningOutcomesPDF_090712.pdf)*)*  **UNCHANGED** |

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| 6. Current **title,** **description** and **units**. Cut and paste, in its entirety,from the current on-line academic catalog\* [**http://catalog.nau.edu/Catalog/**](http://catalog.nau.edu/Catalog/).  **CENE 333 WATER RESOURCES I (3)** Description: Introduction to the fundamentals of hydraulic analysis, including the theory, concepts and use of conservation laws as applied to hydrostatics, pipe flow, pipe networks, turbo-machinery, hydraulic thrust forces and open-channel flow. Letter grade only. Course fee required.  Units: 3  Prerequisite: MAT 238 with a grade of C or better | Show the proposed changes in this column **Bold** the proposed changes in this column to differentiate from what is not changing, and **~~Bold with strikethrough~~**what is being deleted.  **CENE 333 WATER RESOURCES I (3)** Description: Introduction to the fundamentals of hydraulic analysis, including the theory, concepts and use of conservation laws as applied to hydrostatics, pipe flow, pipe networks, turbo-machinery, hydraulic thrust forces and open-channel flow. Letter grade only. Course fee required.  Units: 3  Prerequisite: **CENE 251 and** MAT 238 with **~~a~~** grade**s** of C or better |

\*if there has been a previously approved UCC/UGC/ECCC change since the last catalog year, please copy the approved text from the proposal form into this field.

7. Justification for course change.

**Course and program assessment indicate that student success will be improved with better preparation (statics competency).**

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| 8. Effective **BEGINNING** of what term and year? | **Fall 2014** |
| [**See effective dates calendar**](http://www4.nau.edu/avpaa/timelines/1314Effective.xls). |  |

**IN THE FOLLOWING SECTION, COMPLETE ONLY WHAT IS CHANGING**

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| **CURRENT** | **PROPOSED** |
| Current course subject and number: | Proposed course subject and number: |
| Current number of units: | Proposed number of units: |
| Current short course title: | Proposed short course title (max 30 characters): |
| Current long course title: | Proposed long course title (max 100 characters): |
| Current grading option:  letter grade  pass/fail  or both | Proposed grading option:  letter grade  pass/fail  or both |
| Current repeat for additional units: | Proposed repeat for additional units: |
| Current max number of units: | Proposed max number of units: |
| Current prerequisite:  MAT 238 with a grade of C or better | Proposed prerequisite (include rationale in the justification):  **CENE 251 and MAT 238 with grades of C or better** |
| Current co-requisite: | Proposed co-requisite (include rationale in the justification): |
| Current co-convene with: | Proposed co-convene with: |
| Current cross list with: | Proposed cross list with: |

9. Is this course in any plan (major, minor, or certificate) or sub plan (emphasis)? Yes  No

If yes, describe the impact. If applicable, include evidence of notification to and/or response

from each impacted academic unit.

**Civil Engineering; BSE, Environmental Engineering BSE, Civil Engineering Minor (elective), Geology BS- Hydrogeology Emphasis**

10. Is there a related plan or sub plan change proposal being submitted? Yes  No

If no, explain.

**This prerequisite change will not require any related plan change proposals.**

11. Does this course include combined lecture and lab components?            Yes  No

If yes, include the units specific to each component in the course description above.

**Answer 12-15 for UCC/ECCC only:**

12. Is this course an approved Liberal Studies or Diversity course?          Yes  No

    If yes, select all that apply.   Liberal Studies    Diversity    Both

13. Do you want to remove the Liberal Studies or Diversity designation?            Yes  No

If yes, select all that apply.   Liberal Studies    Diversity     Both

14. Is this course listed in the [**Course Equivalency Guide**](https://aztransmac2.asu.edu/cgi-bin/WebObjects/Admin_CEG.woa/wa/ByInst?inst=NAU)?                      Yes  No

15. Is this course a [**Shared Unique Numbering**](https://aztransmac1.asu.edu/cgi-bin/WebObjects/ATASS.woa/wa/SUNList?S=X) (SUN) course?                Yes  No

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| **FLAGSTAFF MOUNTAIN CAMPUS** |  |
| **Scott Galland** | **1/15/2014** |
| Reviewed by Curriculum Process Associate | Date |
|  |  |
| **Approvals**: |  |
| Bridget Bero 1-24-14 |  |
| Department Chair/Unit Head (if appropriate) | Date |
|  |  |
| Chair of college curriculum committee | Date |
|  |  |
| Dean of college | Date |
|  |  |
| **For Committee use only:** |  |
|  |  |
| UCC/UGC Approval | Date |

Approved as submitted: Yes  No

Approved as modified: Yes  No

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| **EXTENDED CAMPUSES** |  |
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| Reviewed by Curriculum Process Associate | Date |
|  |  |
| **Approvals:** |  |
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| Academic Unit Head | Date |
|  | |
| Division Curriculum Committee (Yuma, Yavapai, or Personalized Learning) | Date |
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| Division Administrator in Extended Campuses (Yuma, Yavapai, or Personalized Learning) | Date |
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| Faculty Chair of Extended Campuses Curriculum Committee (Yuma, Yavapai, or Personalized Learning) | Date |
|  | |
| Chief Academic Officer; Extended Campuses (or Designee) | Date |
|  |  |

Approved as submitted: Yes  No

Approved as modified: Yes  No