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| CIP Code:  |  |
| Degree Code: |  |

**Bulletin / Banner Change Transmittal Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

Email completed proposals to curriculum@astate.edu for inclusion in curriculum committee agenda.

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| Jason Stewart | 1/9/2020 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Jason Stewart | 1/9/2020 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| Jason Stewart | 1/10/2020 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Abhijit Bhattacharyya | 1/10/2020 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (If applicable)**   |

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**Vice Chancellor for Academic Affairs** |

**1.Contact Person** (Name, Email Address, Phone Number)

Yeonsang Hwang, yhwang@astate.edu, 3581

**2.Proposed Change**

Removing a pre-requisite (ENGR 3471 Fluid Mechanics Laboratory) in CE 3253 Engineering Hydrology course requirements.

**3.Effective Date**

Spring 2020

**4.Justification –** *Please provide details as to why this change is necessary.*

This pre-req (ENGR 3471 Fluid Mechanics Laboratory) is redundant because the full required contents are completely covered in the other pre-requisite (ENGR 3473 Fluid Mechanics).

**Bulletin Changes**

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| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Follow the following guidelines for indicating necessary changes.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)- New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font). - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)*You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.**Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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Civil Engineering (CE)

**CE 2202. Civil Engineering Presentations** An introduction to computer aided design, CAD, for civil engineers with applications in civil engineering drawings. Different types of civil engineer­ing drawings will be developed and presented in the course. Prerequisite, C or better in CE 2223. Spring.

**CE 2223. Plane Surveying** Theory and practice of plane surveying. Introduction to route design. Lecture two hours, laboratory four hours per week. Prerequisite, C or better in MATH 1033 or MATH 2204. Fall.

**CE 3213. Structural Analysis I** Analysis of determinate and indeterminate structures and trusses, shear and moment diagrams, influence lines and moving loads, and deflection calculations. Lecture three hours per week. Prerequisite, C or better in ENGR 2403. Corequisite, ENGR 2413. Spring.

**CE 3224. Civil Engineering Materials** Theory and application of materials used in civil en­gineering. Nature of materials, aggregate testing, concrete testing, concrete mix design, masonry, asphalt testing, and asphalt mix design. Lecture three hours, laboratory three hours per week. Prerequisite, C or better in ENGR 2413 and 2411. Fall.

**CE 3233. Structural Analysis II** Use of finite element modeling for analysis of structures. Study of ASCE 7-XX live, dead, wind, and seismic loadings and their applications in finite element modeling. Lecture three hours per week. Prerequisite, C or better in CE 3213. Fall.

**CE 3253. Engineering Hydrology** Studies of the hydrologic cycle, solar radiation and me­teorology, precipitation, evaporation, transpiration, groundwater flow, hydrographs, flood routing, and probability concepts. Lecture three hours per week. Prerequisite, C or better in ~~ENGR 3471 and~~ ENGR 3473. Spring.