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| For Academic Affairs and Research Use Only |
| CIP Code:  |  |
| Degree Code: |  |

**Bulletin / Banner Change Transmittal Form**

**[✓] 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 | 3/26/2019 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| Jason Stewart | 3/26/2019 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| Jason Stewart | 3/26/2019 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Yeonsang Hwang | 3/26/2019 |

**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)

Hyunju Jeong, hjeong@astate.edu, 870-972-3227

**2.Proposed Change**

Include choice of BIOL 1003 with BIOL 1063 as prerequisite for CE 3263 as was dictated by degree plan changes which went into effect in Fall 2018. This modification was missed with the degree plan changes last year.

**3.Effective Date**

Fall 2019

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

BIOL 1003 Biological Science is compatible with BIOL 1063 People and the Environment as a prerequisite for CE 3263 Introduction to Environmental Engineering.

**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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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.

CE 3263. Introduction to Environmental Engineering Introduction to environmental engineering fundamentals, concepts of mass balance, water and wastewater treatment, air pollution, solid waste management, and hazardous waste. Lecture three hours per week. Prerequisites, C or better in BIOL **(1003 or** 1063), CHEM 1013 and MATH 2204. Fall.

CE 3273. Water and Waste Systems Projection of water requirements and wastewater flows, water and waste systems hydraulics, design of water distribution systems, sanitary sewers, stormwater collection systems, and pumping systems. Lecture three hours per week. Prerequisites, C or better in CE 3253. Fall.

CE 4203. Transportation Engineering I Introduction to concepts of transportation systems, principles of traffic theories, traffic engineering and operation, and transportation planning including basic concepts of public policy, administration, and involvement in transportation planning. An intersection design project is required. Prerequisite, C or better in CE 2202. Fall.