Code # EN05 (2015) Rev

**Bulletin / Banner Change Transmittal Form**

[x]  **Undergraduate Curriculum Council** Print 1 copy for signatures and save 1 electronic copy.

[ ]  **Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to pheath@astate.edu

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Department Chair:**  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**General Education Committee Chair (If applicable)**   |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Vice Chancellor for Academic Affairs** |

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

Jason Stewart, jstewart@astate.edu, 972-2088

**2.Proposed Change**

CE 4233 Foundation Engineering – change CE 4253 Soil Mechanics from a co-requisite to a prerequisite.

**3.Effective Date**

Fall 2016

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

CE 4253 material is built upon at the beginning of CE 4233, and students need to have completed CE 4253 before starting CE 4233 in order to understand that material. The courses are offered in different semesters, so no conflicts are created. CE 4253 is already in the degree plan ahead of CE 4233.

Furthermore, the justification for changing the co/pre-requisite is more a matter of practicality to the instruction within the Foundation Engineering course.  Instead of having to address soil mechanics material at the beginning of the course so that foundation engineering principles can be addressed, the instructor is able to move directly into the foundation engineering aspects in CE 4233.  Solidification of CE 4253 as a prerequisite insures that future students will have the required knowledge before enrolling in CE 4233 even as our program grows and potentially begins to offer CE 4253 and CE 4233 in the same semester.  We are essentially formalizing the reality of our program and insuring its information flow to students ahead of anticipated growth.  Foundation engineering inherently requires knowledge of soil mechanics, so prerequisite simply makes more sense.

**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.* |

CE 4223. Transportation Engineering II Principles of highway survey and locations, geometric design, highway materials, pavement design, highway drainage, and pavement management. A highway design project is required. Prerequisite, C or better in CE 3223, CE 4203, CE 4251, and CE 4253. Dual listed as CE 5223. Spring.

CE 4233. Foundation Engineering Prediction of soil variation, soil investigations, stress distribution and bearing capacity, settlement analysis and foundation performance. The design and analysis of retaining structures and lateral earth pressures, shallow foundations, pile foundations. One foundation design project is required. Prerequisite, C or better in CE 2202~~. Corequisite,~~ and CE 4253. Dual listed as CE 5233. Fall.

CE 4243. Reinforced Concrete Design Analysis and design of beams and slabs for bending and shear, reinforcement placement, deflection calculations, and column analysis. Prerequisite, C or better in CE 3213. Dual listed as CE 5243. Fall.