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

**Course Revision Proposal 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](mailto:curriculum@astate.edu) for inclusion in curriculum committee agenda.

|  |  |
| --- | --- |
| Jason Stewart 12/4/2017 **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Jason Stewart 12/4/2017 **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (If applicable)** |
| Jason Stewart 12/4/2017 **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Brandon Kemp 12/4/2017 **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (If applicable)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

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

Zahid Hossain, [mhossain@astate.edu](mailto:mhossain@astate.edu), 680-4299

2. Proposed Starting Term and Bulletin Year for Change to Take Effect

Fall 2018

3. Current Course Prefix and Number

CE 3223

3.1 – **[Yes / No]** Request for Course Prefix and Number change? **Yes**

If yes, include new course Prefix and Number below. *(Confirm that number chosen has not been used before. For variable credit courses, indicate variable range. Proposed number for experimental course is 9. )*

CE 3224

3.2 – **[Yes/No]** If yes, has it been confirmed that this course number is available for use? **Yes**

*If no: Contact Registrar’s Office for assistance.*

4. Current Course Title

Civil Engineering Materials

4.1 – **[Yes, No]** Request for Course Title Change? **No**

If yes, include new Course Title Below.

Enter text...

1. If title is more than 30 characters (including spaces), provide short title to be used on transcripts. *Title cannot have any symbols (e.g. slash, colon, semi-colon, apostrophe, dash, and parenthesis).*

Enter text...

1. Please indicate if this course will have variable titles (e.g. independent study, thesis, special topics).

Enter text...

5. – **[Yes / No ]** Request for Course Description Change? Y**es**

If yes, please include brief course description (40 words or fewer) as it should appear in the bulletin.

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.

6. – [**Yes / No** ] Request for prerequisites and major restrictions change? **No**

*(If yes, indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).*

1. **[Yes / No]**] Are there any prerequisites?
   1. If yes, which ones?

Enter text...

* 1. Why or why not?

Enter text...

1. **[Yes / No ]** Is this course restricted to a specific major?
   1. If yes, which major? Enter text...

7. – [**Yes / No**] Request for Course Frequency Change(e.g. Fall, Spring, Summer). *Not applicable to Graduate courses.* **No**

a. If yes, please indicate current and new frequency:

Enter text...

8. – [**Yes / No**] Request for Class Mode Change? **No**

*If yes, indicate if this course will be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar, special problems, special topics, studio, student exchange, occupational learning credit, or course for fee purpose only (e.g. an exam)? Please* *indicate the current and choose one.*

Enter text...

9. – [**Yes / No** ] Request for grade type change? **No**

*If yes, what is the current and the new grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])*

Enter text...

10. [**Yes / No**] Is this course dual listed (undergraduate/graduate)? **No**

a. If yes, indicate course prefix, number and title of dual listed course.

Enter text...

11. [**Yes / No**] Is this course cross listed? **No**

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross listed course.)*

**11.1** – If yes, please list the prefix and course number of cross listed course.

Enter text...

**11.2** –[ **Yes / No**] Are these courses offered for equivalent credit?

Please explain. Enter text...

12. [**Yes / No**] Is this course change in support of a new program? **No**

a. If yes, what program?

Enter text...

13. [**Yes / No**] Does this course replace a course being deleted? **Yes**

a. If yes, what course? CE 3223 CE Materials

14. [**Yes / No**] Will this course be equivalent to a deleted course or the previous version of the course? **No**

a. If yes, which course?

The proposed course adds to the previous course, so it will substitute for the previous course. The two courses are not equivalent, however, due to the increase in credit hours.

15. [**Yes / No**] Does this course affect another program? **No**

If yes, provide confirmation of acceptance/approval of changes from the Dean, Department Head, and/or Program Director whose area this affects.

Enter text...

16. Does this course require course fees? **No**

*If yes: Please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Revision Details**

17. Please outline the proposed revisions to the course.

*Include information as to any changes to course outline, special features, required resources, or in academic rationale and goals for the course.*

Additional lecture topics Nature of Materials and Masonry has been added in the course outline. Week 1: Course Introduction and Introduction to Materials Engineering & Lab 1 **Week 2: Nature of Materials** Week 3: Aggregates Week 4: Aggregates & Lab 2 Week 5: Portland Cement/Mixing Water/Admixture Week 6: Portland Cement/Mixing Water/Admixture Week 7: Portland Cement Concrete (PCC) and ACI Test & Field Trip Week 8: Portland Cement Concrete (PCC) and ACI Test & Lab 3 Week 9: Portland Cement Concrete (PCC) and ACI Test Week 10: Portland Cement Concrete (PCC) and ACI Test **Week 11: Masonry** Week 12: Asphalt Binders and Asphalt Mixtures & Field Trip Week 13: Asphalt Binders and Asphalt Mixtures & Lab 4 Week 14: Asphalt Binders and Asphalt Mixtures Week 15: Asphalt Binders and Asphalt Mixtures and Course Review .

18. Please provide justification to the proposed changes to the course.

Newly added topics (**Nature of Materials and Masonry**) will have significance in students’ learning and real world applications. They will help students do better in the Fundamental of Engineering (FE) exam and be more successful in getting jobs and in their careers. Due to the industry trends and restriction of lecture hours, these topics were not taught in the past. With the additional credit hour, they will be taught in class.

19. [**Yes / No**] Do these revisions result in a change to the assessment plan? **No**

*\*If yes: Please complete the Assessment section of the proposal on the next page.*

*\*If no: Skip to Bulletin Changes section of the proposal.*

***\*See question 19 before completing the Assessment portion of this proposal.***

**Assessment**

**University Outcomes**

20. Please indicate the university-level student learning outcomes for which this new course will contribute. Check all that apply.

|  |  |  |
| --- | --- | --- |
| * 1. **[ ]** Global Awareness | * 1. **[x]** Thinking Critically | * 1. **[ ]** Information Literacy |

**Relationship with Current Program-Level Assessment Process**

21. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

This course contributes to the following program outcomes. Outcome 2 is assessed in the course.

Outcome 2: An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data

Outcome 3: An ability to function on multi-disciplinary teams

Outcome 6: An ability to communicate effectively, both orally and in writing

Outcome 10: An ability to use the techniques, skills and modern engineering tools necessary for engineering practice

22. Considering the indicated program-level learning outcome/s (from question #23), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

|  |  |
| --- | --- |
| **Program-Level Outcome 2 (from question #21)** | An ability to design and conduct experiments, as well as to acquire, analyze, and interpret data |
| Assessment Measure | A laboratory assignment is given to students to determine the required tests to be performed, size and number of specimens to be tested, and amount of materials to be used to make meaningful conclusions and recommendations. Students analyze the test data using the MS Excel tool, compare them with relevant specifications, and document them in a formal report format. A rubric is used to assess the submitted lab report from the students. |
| Assessment  Timetable | Each fall semester (every time the course is offered) |
| Who is responsible for assessing and reporting on the results? | The course instructor collects relevant data required for assessment and reports that data to the Outcome #2 committee for summation. Action plans are developed as necessary by the committee along with the instructor to address shortcomings (not meeting assessment target(s)). |

*(Repeat if this new course will support additional program-level outcomes)*

**Table VI-3. Relation of Student Outcomes to Curriculum**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Civil**  **Engineering Program Engineering Courses** | **Student Outcome Number** | | | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| **Engineering Core** | All students must complete the 20 hours of engineering core courses. | | | | | | | | | | |
| **ENGR 1402**, Concepts of Engineering |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 1412**, Software Applications for Engineers |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 2401**, Applied Engineering Satistics |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 2403**, Statics |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 3433**, Engineering Economics |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 4401**, Senior Seminar |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 4453**, Numerical Methods for Engineers |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 4463**, Senior  Design I | A |  | A |  | A | A |  | A |  |  |  |
| **ENGR 4482**, Senior  Design II |  |  | A |  |  | A |  | A |  | A |  |
| **Civil Engineering Required Courses** | All students must complete 60 hours of civil engineering courses. | | | | | | | | | | |
| **CE 2202**, Civil Engineering Presentations |  |  |  |  |  |  |  |  |  |  |  |
| **CE 2223**, Plane Surveying |  |  |  |  |  |  |  |  |  |  |  |
| **CE 3213**, Structural Analysis I |  |  |  |  |  |  |  |  |  |  |  |
| **CE 3224**, Civil Engineering Materials |  | A |  |  |  |  |  |  |  |  |  |
| **CE 3253**, Engineering Hydrology |  |  |  |  |  |  |  |  |  | A |  |
| **CE 3263**, Introduction to Environmental Engineering |  |  |  |  |  |  |  |  | A |  |  |
| **CE 3273**, Water and Waste Systems |  |  |  |  |  |  |  |  |  |  | A |
| **CE 4203**, Transportation Engineering I |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4223**, Transportation Engineering II |  |  |  | A |  |  | A |  |  | A | A |
| **CE 4233**, Foundation  Engineering |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4243**, Reinforced Concrete Design |  |  |  |  |  |  |  |  |  |  | A |
| **CE 4251**, Soil Mechanics Laboratory |  |  |  |  |  |  |  |  |  |  |  |

**Table VI-3. Relation of Student Outcomes to Curriculum (continued)**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Civil**  **Engineering Program Engineering Courses** | **Student Outcome Number** | | | | | | | | | | |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** |
| **Civil Engineering**  **Required Courses** |  | | | | | | | | | | |
| **CE 4253**, Soil Mechanics |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4283**, Structural Steel Design |  |  |  |  |  |  |  |  |  |  | A |
| **ENGR 2411**, Mechanics of Materials Laboratory |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 2413**, Mechanics of Materials |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 3423**, Dynamics |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 3471**, Fluid Mechanics Laboratory |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 3473**, Fluid Mechanics |  |  |  |  |  |  |  |  |  |  |  |
| **Civil Engineering Elective Courses** | All students must complete either CE 3233 or CE 4263 AND either ENGR 2423 or ENGR 3443  AND one additional course from the CE (not ENGR) courses listed. | | | | | | | | | | |
| **CE 3233**, Structural Analysis II |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4263**, Water and Waste Treatment |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4293**,Sustainability and Water Res*.* |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4803**, Open-Channel Flow |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4813**, Groundwater Hydrology |  |  |  |  |  |  |  |  |  |  |  |
| **CE 4823**,Earthquake Engineering |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 2423**, Electric Circuits I |  |  |  |  |  |  |  |  |  |  |  |
| **ENGR 3443**, Engineering Thermodynamics I |  |  |  |  |  |  |  |  |  |  |  |

**Course-Level Outcomes**

23. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

|  |  |
| --- | --- |
| **Outcome 1** | Type outcome here. What do you want students to think, know, or do when they have completed the course? |
| Which learning activities are responsible for this outcome? | List learning activities. |
| Assessment Measure | What will be your assessment measure for this outcome? |

*(Repeat if needed for additional outcomes)*

Unchanged from current practices.

**Bulletin Changes**

|  |
| --- |
| **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.* |

On Page #123

CE 322~~3~~4, Civil Engineering Materials ~~3~~ 4

Overview document of all proposed changes concurrent to this one indicate that the extra hour doesn’t increase total hours for the BSCE degree since ENGR 2421 is being removed completely from the degree plan. The total hours in the CE major will increase due to this additional hour along with the other proposed changes such that the “Major Requirements” subtotal becomes 67 hours.

On Page #426

**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 322~~3~~4 and CE 4203. Corequisites, CE 4251 and CE 4253. Dual listed as CE 5223. Spring.

On Page #426

**CE 322~~3~~** 4**. Civil Engineering Materials** Theory and application of materials used in civil engi­neering. Nature of materials, ~~A~~aggregate testing, concrete testing, concrete mix design, masonry, asphalt testing, and asphalt mix design. Lecture ~~two~~ three hours, laboratory three hours per week. Prerequisite, C or better in ENGR 2413 and 2411. Fall.