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| For Academic Affairs and Research Use Only | |
| Proposal Number | ECS32 |
| CIP Code: |  |
| Degree Code: |  |

**New or Modified Course Proposal Form**

**[X] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **[X]New Course, [ ]Experimental Course (1-time offering), or [ ]Modified Course (Check one box)** |

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

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| **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| Dr. Alexandr M. Sokolov 10/26/2020 **Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Head of Unit (if applicable)** |
| Jason Stewart 10/29/2021  **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| Mary Elizabeth Spence 10/29/2021 **Office of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
| Dr. Abhijit Bhattacharyya 10/29/2021 **College Dean** | Alan Utter 11/16/2021  **Vice Chancellor for Academic Affairs** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (if applicable)** |  |

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

Alexandr M. Sokolov

[asokolov@astate.edu](mailto:asokolov@astate.edu)

870-972-3635

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Fall 2022

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)**  *(Indicate “N/A” if no modification)* |
| **Prefix** |  | **CM** |
| **Number\*** |  | **4063** |
| **Title** |  | **Construction Management Internship (Const. Mgmt. Internship)** |
| **Description\*\*** |  | **Practical experience in construction management. Evaluation and reports required.** |

***\**** (Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*. )

\*\*Forty words or fewer as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested?]**

(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 Are there any prerequisites?
   1. If yes, which ones?

Program Director approval.

* 1. Why or why not?

This class requires a direct supervisor to verify the internship. This will be done with the program director and student.

1. No Is this course restricted to a specific major?
   1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested?]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate courses.*

Fall, Spring

1. **Proposed course type [Modification requested?]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Internship

1. **Proposed grade type [Modification requested?]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Standard Letter

1. NO Is this course dual-listed (undergraduate/graduate)?
2. No Is this course cross-listed?

*(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.)*

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

**b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

1. YES Is this course in support of a new program?

a. If yes, what program?

Bachelor of Science in Construction Management

1. NO Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)?

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested?]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

WEEK 1: Task: Please submit your acceptance letter, which includes the contact information of your supervisor.

WEEK 2: Task: Please submit a min. 200-word but not more than 300-word summary of your job experience in

your internship position.

WEEK 3: Task: Please submit a min. 200-word but not more than 300-word summary of your job experience in

your internship position.

WEEK 4: Task: Please submit a min. 200-word but not more than 300-word summary of your job experience in

your internship position.

WEEK 5: Task: Please submit a min. 200-word but not more than 300-word summary of your job experience in

your internship position.

WEEK 6: Task: Please submit a min. 200-word but not more than 300-word summary of your job experience in

your internship position.

WEEK 7: Final Report Evaluation from supervisor.

1. **Proposed special features** **[Modification requested?]**

(e.g. labs, exhibits, site visitations, etc.)

No

1. **Department staffing and classroom/lab resources**

Engineering Management

1. Will this require additional faculty, supplies, etc.?

NO

1. NO Does this course require course fees?

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

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

Enter text...

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

This course is intended for students to gain a practical experience in construction management before graduating from the University. This is important as students will gain a working knowledge of the field which cannot be replicated in the classroom.

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

This course allows students to improve their construction management skills in the real world. More and more companies in the construction industry are requesting that students have in-field experience before they graduate. Therefore this class facilitates the need from A-State, the College of Engineering and Computer Science, and the department to make students more attractive as potential new hires in the industry.

c. Student population served.

Targeted for students in the BSCM and available for other majors.

d. Rationale for the level of the course (lower, upper, or graduate).

This course builds on the general elective requirements to ensure students have all the aptitude to be successful.

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **Yes / No** Do the proposed modifications result in a change to the assessment plan?

*If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. 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?

An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty..

1. Considering the indicated program-level learning outcome/s (from question #19), 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.*

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| **Outcome 6** | An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty. |
| Assessment Measure | Direct: Projects will be assessed with a Rubric; Indirect: Exit Survey |
| Which courses are responsible for this outcome? | CM 3053 Architectural CAD |
| Assessment  Timetable | Collect data whenever course is offered. But assess every 3 years as the College of Engineering and Computer Science Assessment schedule. |
| Who is responsible for assessing and reporting on the results? | The course instructor, Program coordinator, and the Program Director |

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

**Course-Level Outcomes**

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

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| **Outcome 1** | Students will need to assess how they function in the real work by setting plans, goals, and meeting deadlines with employers |
| Which learning activities are responsible for this outcome? | Students will need to fill out reports, and their supervisor will need to go into detail about the work they do on-site. |
| Assessment Measure | Class assignment scoring rubric |

*(Repeat if needed for additional outcomes)*

**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. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*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.** |

Course Descriptions to be added at page 480 in the 2021-2022 Undergraduate Bulletin.

**Construction Management (CM)**

**CM 3003, Construction Physics** An introduction to the fundamental principles underlying classical physics and modern physics and the applications of those principles in construction and engineering. Prerequisite, C or better in MATH 2143 or MATH 2204. SPRING.

**CM 3013, Green Construction** Overview of design and construction delivery systems for high performance green buildings; relevant criteria and established guidelines; green standards; high performance green buildings and sustainability; vocabulary associated with sustainability and green buildings; physical limitations of materials. FALL.

**CM 3023, Strategic Bidding and Estimating** Theory and practice of construction project bidding and estimating. Review of all bid-preparation activities from a contractor’s organization from the initial decisions on project selection and receipt of drawings and specifications, through the estimating process and necessary follow-up actions. SPRING.

**CM 3033, Architectural CAD** Introduction to principles of graphic tools and CAD systems in architecture and construction fields. Application of CAD in creation of floor plans, foundation plans, roof design, section details, and elevation drawings. FALL.

**CM 3043, Structural Blueprints** Basic principles of print reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic prints and visualize the features of a part or system. Prerequisite, C or better in CM 3033. SPRING.

**CM 3053, Building Information Modeling** Utilizing basic functions of Building Information Modeling (BIM) for residential and commercial construction. During the course, students will examine geometry, spatial relationships, geographic information, quantities, and properties of building components. Prerequisite, C or better in CM 3033. SPRING.

**CM 4003, Construction Management Design I** Multidisciplinary group work on a design problem from conceptualization through selection of best alternative. A project proposal is required. Prerequisite, C or better in MATH 2143 or MATH 2204. FALL.

**CM 4013, Construction Management Design II** Group work to complete final design and testing aspects of a senior design project. A public oral presentation is required. Prerequisite, C or better in CM 4003. SPRING.

**CM 4023, Materials and Methods for Construction** Introduction to specifications, standards, codes, quality control, and quantity survey as they pertain to the execution of selected construction materials. Topics include site work, concrete, masonry, steel, rough and finish carpentry, thermal and moisture protection, doors, windows, finishes, and specialties. Prerequisite, C or better in CM 3003. FALL.

**CM 4063, Construction Management Internship** Practical experience in construction management. Evaluation and reports required. Prerequisite, Program Director approval. FALL & SPRING.