Program Change Request

New Program Proposal

Date Submitted: 11/18/19 5:11 pm

Viewing: CSMGMS : Construction Management, Master of Science

Last edit: 11/25/19 3:55 pm

Changes proposed by: micah

Submitter: User ID: micah Phone: 575-6348

Program Status: Active

Academic Level: Graduate

Type of proposal: Major/Field of Study

Select a reason for this new program: Adding New Degree--(LOI 1, Proposal-1)

Are you adding a concentration? No

Are you adding or modifying a track? No

Are you adding or modifying a focused study? No

Effective Catalog Year: Fall 2021

College/School Code: College of Engineering (ENGR)

Department Code

In Workflow

1. ENGR Dean Initial
2. GRAD Dean Initial
3. Provost Initial
4. Director of Program Assessment and Review
5. Registrar Initial
6. Institutional Research
7. CVEG Chair
8. ENGR Curriculum Committee
9. ENGR Faculty
10. ENGR Dean
11. Global Campus
12. Dean of University Libraries

13. Provost Review
14. University Course and Program Committee
15. Graduate Committee
16. Faculty Senate
17. Provost Final
18. Provost's Office--Documentation sent to System Office
19. Higher Learning Commission
20. Board of Trustees
21. ADHE Initial
22. ADHE Final
23. Provost's Office--
Approval Path

1. 10/23/19 7:38 am
   Norman Dennis (ndennis): Rollback to Initiator

2. 11/19/19 11:27 am
   Norman Dennis (ndennis): Approved for ENGR Dean Initial

3. 11/19/19 11:37 am
   Pat Koski (pkoski): Approved for GRAD Dean Initial

4. 11/21/19 12:27 pm
   Terry Martin (tmartin): Approved for Provost Initial

5. 11/22/19 4:55 pm
   Alice Griffin (agriffin): Approved for Director of Program Assessment and Review

6. 11/25/19 3:55 pm
   Lisa Kulczak (lkulcza): Approved for Registrar Initial

7. 12/02/19 4:24 pm
   Gary Gunderman (ggunderm): Approved for Institutional
<table>
<thead>
<tr>
<th>Department of Civil Engineering (CVEG)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Code</td>
<td>CSMGMS</td>
</tr>
<tr>
<td>Degree</td>
<td>Master of Science</td>
</tr>
<tr>
<td>CIP Code</td>
<td>52.2001 - Construction Management.</td>
</tr>
<tr>
<td>Program Title</td>
<td>Construction Management, Master of Science</td>
</tr>
<tr>
<td>Program Delivery Method</td>
<td></td>
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</tbody>
</table>

Research
8. 12/03/19 9:02 am
   Micah Hale (micah): Approved for CVEG Chair
9. 12/04/19 12:20 pm
   Manuel Rossetti (rossetti): Approved for ENGR Curriculum Committee
10. 12/05/19 12:08 pm
    Norman Dennis (ndennis): Approved for ENGR Faculty
11. 12/05/19 12:42 pm
    Norman Dennis (ndennis): Approved for ENGR Dean
12. 12/05/19 12:49 pm
    Suzanne Kenner (skenner): Approved for Global Campus
13. 12/18/19 8:08 am
    Dennis Clark (dennisc): Approved for Dean of University Libraries
**Online/Web-based**

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is this program interdisciplinary?</td>
<td>No</td>
</tr>
<tr>
<td>Does this proposal impact any courses from another College/School?</td>
<td>No</td>
</tr>
</tbody>
</table>

**What are the total hours needed to complete the program?**

30

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**On-line/Web-based Information**

**Reason for offering**

**Web-based Program**

Employers in Arkansas have discussed with representatives from the Department of Civil Engineering the need for an online, graduate program in Construction Management. Since the program is online, more working professionals across the U.S., not just Arkansas, can participate.

**Maximum Class Size for Web-based Courses**

30

**Course delivery mode**

<table>
<thead>
<tr>
<th>Method(s)</th>
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<tbody>
<tr>
<td>Online</td>
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</table>

**Class interaction mode**

<table>
<thead>
<tr>
<th>Method(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic Bulletin Boards</td>
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</table>

**Percent Online**

100% with No Required Campus Component

**Provide a List of Services Supplied by Consortia Partners or Outsourced Organization**

Not applicable.
Program Requirements and Description

**General Description.** The proposed Master of Science in Construction Management (CSMGMS) will be a 30 hour, online, distance education program. The curriculum will contain topics including but not limited to scheduling, project finance, construction productivity, construction safety, and legal aspects of construction.

**Program Admission Requirements.** Applicants to the program must meet the following admissions requirements. This includes having a bachelor of science, bachelor of arts, or bachelor of architecture from an accredited university. The applicant should have an undergraduate grade point average (GPA) of 3.0 or better (A=4.0) on all course work taken prior to receipt of the bachelor degree, or a GPA of 3.0 or better on the last 60 hours of course work taken prior to receipt of the bachelor degree. An entrance exam, such as the GRE, is not required.

**Requirements.** In addition to the requirements of the Graduate School, the following requirements have been established by the CSMGMS Program:

1. Complete a minimum of 30 semester hours of graduate-level credit beyond the bachelor’s degree.
2. Twenty-one of the 30 hours must be **CVEG 5503, CVEG 5513, CVEG 5523, CVEG 5533, CVEG 5543, CVEG 5553, and CVEG 5563.** The remaining three courses are selected from any approved MSE
course offering.

3. Earn a minimum cumulative grade-point average of 3.00 on all graduate courses attempted.
4. At the completion of their course work, the students must pass a comprehensive final exam.

Program Costs
All courses will be delivered online through a format that is similar to MSE that is offered through the COE.
Two courses have been developed which leaves five courses for development. Twenty-five thousand dollars will be necessary for course development ($5000 per course). Additional expenses may include a portion of the staff salary for course delivery ($25,000 per year). It is expected that the tuition and fees for the program would be similar to that of the MSE.

Library Resources
Additional library resources will not be needed.

Instructional Facilities
No additional facilities or equipment is necessary.

Faculty Resources
Faculty will make use of current distance education technology on the UofA campus. Therefore, additional faculty resources in regard to classroom or technology needs will not be necessary.

List Existing Certificate or Degree Programs that Support the Proposed Program

<table>
<thead>
<tr>
<th>Program(s)</th>
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<tbody>
<tr>
<td>ENGRME - Engineering, Master of Science in Engineering</td>
</tr>
<tr>
<td>OPMGMS - Operations Management, Master of Science in Operations Management</td>
</tr>
<tr>
<td>CVEGMS - Civil Engineering, Master of Science in Civil Engineering</td>
</tr>
</tbody>
</table>

Are Similar Programs available in the area?
Yes

List institutions in Arkansas offering similar programs
There are no online, CSMGMS programs offered in the State of Arkansas. The University of Arkansas at Little Rock offers an on-campus, CSMGMS program, but not a distance education program.

List institutions in the surrounding region
offering similar programs

- Missouri Science and Technology in Rolla, MO offers an online MS in Civil Engineering with an emphasis in Construction Engineering. The University of Kansas offers an online MS in Project Management which is similar to the proposed program. Louisiana State University, the University of Houston, and University of Florida all offer online CSMGMS programs, and these programs were used as a model to develop the proposed program.

Why is the Program needed if offered at other institutions?

The proposed program will address and fill a need in the construction industry. Graduates of the CSMGMS program will be able to enter the construction industry in entry level positions or be able to advance in their careers to higher level positions within the construction industry. Since the MSCM will be online, this will allow students to complete the program while continuing their careers and without having to come to campus.

<table>
<thead>
<tr>
<th>Estimated Student Demand for Program</th>
<th>25 new students per year</th>
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<tbody>
<tr>
<td>Scheduled Program Review Date</td>
<td>2023-2024</td>
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Program Goals and Objectives

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Prepare students to pursue careers in the broad field of construction management.</td>
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<tr>
<td>Prepare students to demonstrate advanced technical knowledge related to construction management.</td>
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<tr>
<td>Prepare students to pursue further education in construction management.</td>
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</table>

Learning Outcomes

<table>
<thead>
<tr>
<th>Learning Outcomes</th>
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</thead>
<tbody>
<tr>
<td>Develop a system or process to meet desired needs.</td>
</tr>
<tr>
<td>Identify and solve complex construction management problems by selecting and applying appropriate tools and techniques.</td>
</tr>
<tr>
<td>Locate and evaluate pertinent published literature relevant to a given topic, and apply the information gained to a design, analysis, or research effort.</td>
</tr>
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</table>
Description and Justification for this request

<table>
<thead>
<tr>
<th>Description of request</th>
<th>Justification for request</th>
</tr>
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<tbody>
<tr>
<td>The Department of Civil Engineering proposes to begin an online, coursework only, Master of Science in Construction Management. This program will target professionals who wish to advance in their current career path or wish to start a new career in the construction industry.</td>
<td>Results from an employer needs survey shows that an online, graduate program in Construction Management is needed. Many of the employers surveyed stated that they would provide tuition reimbursement for their employees who enroll in the program which shows support for the proposed degree. Currently, there is not a similar online program offered by a Arkansas university.</td>
</tr>
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</table>

Upload attachments

- CSMGMS - New Degree - Ltr of Intent.docx
- CSMGMS - New Degree - Supporting Documents.docx
- CSMGMS - New Degree - Proposal.docx

Reviewer Comments

**Norman Dennis (ndennis) (10/23/19 7:38 am):** Rollback: Please revise content in Courseleaf and LOI per emailed comments and comments in embedded in shared LOI.

**Norman Dennis (ndennis) (11/19/19 11:26 am):** Corrected minor typos and change the word graduates to program in the degree requirement description.

**Alice Griffin (agriffin) (11/22/19 12:48 pm):** Hyper-linked that courses listed in the program requirements field. All courses are in approval workflow.

**Alice Griffin (agriffin) (11/22/19 1:34 pm):** Minor edits with approval from submitter.

**Alice Griffin (agriffin) (11/22/19 4:51 pm):** Minor editing with attachments, mostly for formatting. Adjusted course titles to match what had been submitted into Course Management. Renamed documents to match BOT naming convention.