

Date Submitted: 01/20/22 4:46 pm

Viewing: CER-EGC : Certificate in Engineering Graphics and CAD

Last approved: 11/08/17 4:49 pm

Last edit: 01/20/22 4:46 pm

Changes proposed by: bstephe5

Civil, Architectural, and Environmental Engineering

Catalog Pages
Using this Program

Program Status Hiatus **Active**

Requestor Name Brent Stephens ~~Sarah Pariseau~~ E-mail
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Origination Date 2022-1-20 ~~2017-11-8~~

Is this an interdisciplinary program? No

Academic Unit College Civil Archl Environ Engrg
Armour College of Engineering

Program Title
Certificate in Engineering Graphics and CAD

Effective Academic Year 2022 - 2023 Effective Term
Summer 2023

Academic Level Undergraduate

Program Type Undergraduate Certificate

Are you seeking Title IV federal financial aid student eligibility status for this program?

In Workflow

1. CAEE Chair
2. Academic Affairs
3. Undergraduate Academic Affairs
4. AC Dean
5. Undergraduate Studies Committee Chair
6. Faculty Council Chair
7. Faculty Council Chair
8. Provost
9. President
10. Academic Affairs

Approval Path

1. 01/20/22 4:47 pm
Brent Stephens (bstephe5):
Approved for CAEE Chair
2. 01/25/22 1:39 pm
Patty Johnson Winston (winston):
Approved for Academic Affairs
3. 01/25/22 3:50 pm
Joseph Gorzkowski (jgorzkow):
Approved for Undergraduate Academic Affairs
4. 01/25/22 4:19 pm
Kenneth Christensen (kchristensen1):
Approved for AC Dean

History

1. Oct 18, 2017 by clmig-jwehrheim
2. Nov 8, 2017 by Sarah Pariseau (sparisea)

No

CIP Code

15.1306 - Mechanical Drafting and Mechanical Drafting CAD/CADD.

Is there more than one Academic Unit proposer?

No

Program Code CER-EGC

Program Attribute

Total Program 20

Credit Hours

Please provide a summary and rationale for the requested program revision.

Placing on hiatus for eventual elimination. The program is a legacy program and minimally subscribed. We have an EG/CAD minor that serves a similar purpose.

Program Narrative and Justification

Narrative description of how the institution determined the need for the program. For example, describe what need this program will address and how the institution became aware of that need. If the program is replacing a current program(s), identify the current program(s) that is being replaced by the new program(s) and provide details describing the benefits of the new program(s). If the program will be offered in connection with, or in response to, an initiative by a governmental entity, provide details of that initiative.

Narrative description of how the program was designed to meet local market needs, or for an online program, regional or national market needs. For example, indicate if Bureau of Labor Statistics data or State labor data systems information was used, and/or if State, regional, or local workforce agencies were consulted. Include how the course content, program length, academic level, admission requirements, and prerequisites were decided; including information received from potential employers about course content; and information regarding the target students and employers.

Narrative description of any wage analysis the institution may have performed, including any consideration of Bureau of Labor Statistics wage data related to the new program.

Narrative description of how the program was reviewed or approved by, or developed in conjunction with, one or more of the following: a) business advisory committees; b) program integrity boards; c) public or private oversight or regulatory agencies (not including the state licensing/authorization agency and accrediting agency); and d) businesses that would likely employ graduates of the program. For example, describe the steps taken to develop the program, identify when and with whom discussions were held, provide relevant details of any proposals or correspondence generated, and/or describe any process used to evaluate the program.

What are the enrollment estimates?

Year 1

Year 2

Year 3

Attach Additional
Program
Justification
Document(s)

Academic Information

Advising

Since quality advising is a key component of good retention, graduation, and career placement, how will students be mentored? What student professional organizations will be formed? How will the department work with the Career Services office to develop industry connections?

Program Resources

Which program resources are necessary to offer this program?

Proposed Bulletin Entry

Admission
Requirements

Course Requirements

An introductory Engineering Graphics and Design course ¹	2-3
EG 305 Advanced Engr Graphic&Design	3
EG 306 Engr Descriptive Geometry	3
EG 405 Mechanical Dsgn Graphics	3
EG 406 Technical & Pictorial Illust	3
EG 419 Computer Graphics in Engr	3
EG 430 Intro Building Info Modeling	3
Total Credit Hours	20-21

¹

[CAE 100](#) and [CAE 101](#), [MMAE 232](#), or an equivalent introductory course.

Sample
Curriculum/Program
Requirements

[n/a](#)

Specialization
Requirements

Program Outcomes and Assessment Process

What are the
learning goals for
this program?

In what semesters
will the data be
collected to assess
this learning goal,
and by whom?

Provide the name
of the rubric that
will be used to
assess the extent to
which students are

achieving this learning goal.

How often and by whom will the data be analyzed? What benchmarks or targets will be used to interpret your results?

Briefly describe the process that will be used to share the results with faculty and use these to motivate program improvement.

Attach Additional Assessment Document(s)

Undergraduate Program Requirements

Certificate

Is the certificate program a competency-based education (CBE) program? This would include credit-based, direct assessment or hybrid CBE programs.

No

How will the certificate program be offered? Select all that apply. (See HLC's Glossary for definitions of distance and correspondence education.)

On-ground instruction

Has the institution outsourced a portion of the program to an entity not accredited by an agency recognized by the U.S. Department of Education?

No

List Certificate
Course
Requirements

Report to Faculty
Council

Reviewer
Comments

Key: 7