New Program Proposal

Date Submitted: 03/09/23 10:40 am

Viewing: **ENRCGM : Environmental Resiliency Certification, Accounting and Metrics Graduate MicroCertificate**

Last edit: 03/15/23 5:01 pm

Changes proposed by: jkvamme

Submitter: 479-575-6603	User ID:	jkvamme	Phone:

Program Status   Active

Academic Level   Graduate

Type of proposal   MicroCertificate

Select a reason for this new program   Adding New Graduate MicroCertificate

Effective Catalog Year   Fall 2023

College/School Code
    Graduate School and International Education (GRAD)

Department Code
    Environmental Dynamics (ENDY)

Program Code   ENRCGM

Degree   Graduate MicroCertificate

CIP Code

In Workflow

1. **GRAD Dean Initial**
2. **GRAD Dean Initial**
3. **Director of Curriculum Review and Program Assessment**
4. **Registrar Initial**
5. **Institutional Research**
6. **ENDY Chair**
7. **GRAD Dean**
8. **ARCH Dean**
9. **Global Campus**
10. **Provost Review**
11. **Graduate Council**
12. **Faculty Senate**
13. Provost Final
14. Registrar Final
15. Catalog Editor Final

Approval Path

1. 03/09/23 12:56 pm
   Christa Hestekin
   (chesteki):
   Approved for GRAD
   Dean Initial
2. 03/09/23 12:57 pm
   Christa Hestekin
   (chesteki):
   Approved for GRAD
   Dean Initial
3. 03/13/23 12:30 pm
   Alice Griffin
   (agriffin): Approved
   for Director of
   Curriculum Review

and Program
Assessment

4. 03/15/23 7:22 am
Gina Daugherty
(gdaugher):
Approved for
Registrar Initial

5. 03/15/23 10:24 am
Doug Miles
(dmiles): Approved
for Institutional
Research

6. 03/15/23 10:38 am
Christa Hestekin
(chesteki):
Approved for ENDY
Chair

7. 03/15/23 10:41 am
Christa Hestekin
(chesteki):
Approved for GRAD
Dean

8. 03/15/23 4:42 pm
Melinda Smith
(melindas):
Approved for ARCH
Dean

9. 03/15/23 4:46 pm
Suzanne Kenner
(skenner): Approved
for Global Campus

10. 03/15/23 4:47 pm
Jim Gigantino
(jgiganti): Approved
for Provost Review

11. 04/05/23 2:44 pm
Christa Hestekin
(chesteki):
Approved for
Graduate Council

03.0101 - Natural Resources/Conservation, General.

Program Title

Environmental Resiliency Certification, Accounting and Metrics Graduate MicroCertificate

Program Delivery
Method

Online/Web-based

Is this program interdisciplinary?

Yes

College(s)/School(s)

College/School Name
Graduate School (GRAD)
Fay Jones School of Architecture (ARCH)

Does this proposal impact any courses from another College/School?

No

What are the total
hours needed to
complete the
program?

9

On-line/Web-based Information

Reason for offering
Web-based Program

The courses offered in the Environmental Resiliency Certification, Accounting and Metrics Graduate Micro
Certificate have been created for people already in the workforce who need additional training resiliency
and sustainability certifications, accounting and metrics. These courses will introduce the concepts and
prepare students for advancement in their current jobs or open doors to new opportunities.

Maximum Class Size
for Web-based
Courses

25

Course delivery
mode

Method(s)
Online

Class interaction
mode

Method(s):
Electronic Bulletin Boards

Percent Online

100% with No Required Campus Component

| Provide a List of Services Supplied by Consortia Partners or Outsourced Organization | Global Campus is a supporting unit that provides assistance in course development and maintenance, technical support for both faculty and students, quality assurance, and compliance with interstate regulatory requirements to all online programs across the campus.

The only service outsourced is the online proctoring service. The University of Arkansas partners with ProctorU for online test proctoring services for some online exams. |
| --- | --- |
| Estimate Costs of the Program over the First 3 Years | $15,000 |
| List Courses Taught by Adjunct Faculty | |
| Upload Memorandum of Understanding Forms (if required) | |

Program Requirements and Description

Requirements

Environmental Certification, Accounting, and Metrics Graduate MicroCertificate

The Environmental Certification, Accounting, and Metrics Graduate MicroCertificate will be the first step in understanding the new standard certifications being used to move companies and government toward a more sustainable and resilient future.

Students enter the program with a minimum of a BS/BA from an accredited university. Students must have a 3 point GPA, or better, and for non-native speakers must have language test scores acceptable for admission by the University of Arkansas graduate school standards.

ENRE 5123 FOUNDATIONS OF ENVIRONMENTAL RESILIENCY	Course ENRE 5123 FOUNDATIONS OF ENVIRONMENTAL RESILIENCY Not Found	3

Choose two of the three electives below:	6

ENRE 5233 CARBON ACCOUNTING	Course ENRE 5233 CARBON ACCOUNTING Not Found
ENRE 5333 ESG REPORTING	Course ENRE 5333 ESG REPORTING Not Found
ENRE 5433 BUILT ENVIRONMENT CERTIFICATION SYSTEM	Course ENRE 5433 BUILT ENVIRONMENT CERTIFICATION SYSTEM Not Found

Total Hours	9

Program Costs

The costs of the program will be covered by tuition.

Library Resources

The University of Arkansas Libraries provides access to information resources that support the educational objectives and outcomes of the University of Arkansas, including the College of Engineering. The libraries house more than 2 million print volumes and over 5.5 million microforms. The annual reports can be found at http://libinfo.uark.edu/info/annualreport.asp. All electronic resources purchased by the libraries, including databases, are accessible from anywhere in the world on a 24 hour/7 days per week basis.

There are over 42,000 current journals and serials maintained by the libraries. The journal, book and conference publications, and other engineering societies are well represented in the libraries. Most of the current subscriptions for science and technology journals are in electronic format. The libraries also provide access to full text of newspapers, trade journals magazines, and interdisciplinary scholarly journal articles through Academic Search Complete and Business Source Complete (EbscoHost), ABI Inform (ProQuest), and Academic Universe (Lexis Nexis).

The Libraries maintain a subscription to appropriate portions of Knovel, which enriches access to interactive texts and data sources. Other texts and textbook materials may be purchased as e-books. ASTM, ASCE, and IEEE standards are fully accessible through online venues. A selected number of standards from organizations such as AASHTO, ASME, and ISO are available in the print collection.
Instructional Facilities

Instructional
Facilities

The courses are 100% online and no new or amended facilities will be needed.

Faculty Resources

Global Campus is a supporting unit that provides assistance in course development and maintenance, technical support for both faculty and students, quality assurance, and compliance with interstate regulatory requirements to all online programs across the campus.

List Existing Certificate or Degree Programs

that Support the Proposed Program

Program(s)
ENREMS - Environmental Resiliency, Master of Science
ENRCGC - Environmental Resiliency Certifications, Accounting and Metrics Graduate Certificate

Are Similar Programs available in the area?

No

Estimated Student   10

Demand for Program

Scheduled Program   NA

Review Date

Program Goals and

Objectives

Program Goals and Objectives
The goals and objectives for the Certifications, Accounting, and Metrics Graduate MicroCertificate culminate in: Demonstrate the ability to communicate the principal problems the built environment causes to Earth's systems for the purposes of broad ecological literacy and working towards bringing the built environment to operate within planetary boundaries. Demonstrate an understanding of the impact of water in developed sites and buildings and strategies and frameworks for minimizing the ecological pollution footprint of water. Demonstrate an understanding of the impact of energy in developed sites and buildings and strategies and frameworks for minimizing its carbon footprint and socio-environmental impact. Students will gain familiarity with carbon accounting, ESG reporting, and various commonly used measures of sustainability in the built environment.

Learning Outcomes

Learning Outcomes
Demonstrate the ability to communicate the principal problems the built environment causes to Earth's systems for the purposes of broad ecological literacy and working towards bringing the built environment to operate within planetary boundaries. Demonstrate knowledge of the building and development rating systems for the built environment and the process of using them, and be able to articulate their differences, strengths, and weaknesses. Students will know the basic principles of accounting for carbon emissions and offsets Student will have familiarity with, and understand key differences between, forest carbon standards (Verra, Gold Standard, American Carbon Registry, Climate Action Reserve, Plan Vivo, SD Vista, ICROA)

Learning Outcomes
Student will understand to the most popular GHG emissions accounting standards, frameworks, and reporting platforms (CDP, SASB, GRI, SBTi).

Description and Justification for this request

Description of request	Justification for request
This curriculum is necessary to build capacity in the citizenry and workforce. The curriculum and courses will help employees with professional growth in understanding, applying, and evaluating various new certifications, ways of environmental accounting and metrics being used.	Two workforce analyses were conducted by the UA Global Campus to assess the need for this type of program. There will be more and more jobs that address sustainability and resiliency as more and more money enters companies to address these issues. These courses are a first step in making sure our students are ready for the challenges ahead.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (03/13/23 12:15 pm): Changed course title of ENRE 5123 Foundations of Resiliency to Foundations of Environmental Resiliency to match course title submitted in Course Inventory Management.

Alice Griffin (agriffin) (03/13/23 12:18 pm): Changed program code from ENRCGMC to ENRCGM to match campus naming convention.

Alice Griffin (agriffin) (03/13/23 12:24 pm): Changed course addition to a comment addition for "Choose two of the three electives below." This action removed the red error box.

Alice Griffin (agriffin) (03/13/23 12:25 pm): Inserted course titles for each of the three elective courses. School is encouraged to review for accuracy.

Alice Griffin (agriffin) (03/13/23 12:27 pm): Checked sum hours box in program requirements field and then reformatted curriculum (indenting electives) to match the nine hours designated in the total hours field. Removed 9 hours comment. As the system will automatically insert that language when the box is checked.

Alice Griffin (agriffin) (03/13/23 12:27 pm): Changed scheduled program review date to NA. As, program reviews are not conducted on MicroCertificates.

Alice Griffin (agriffin) (03/13/23 12:27 pm): All Courses in red are pending approval. Currently pending Graduate Council review.

Alice Griffin (agriffin) (03/13/23 12:28 pm): Changed all uses of Micro Certificate to MicroCertificate for consistency with campus naming convention.

Alice Griffin (agriffin) (03/13/23 12:29 pm): Reformatted program requirements by moving the text above the course list and inserting a header for the program title with permission from submitter.

Gina Daugherty (gdaugher) (03/15/23 7:22 am): Removed Undergraduate Council from workflow.

Gina Daugherty (gdaugher) (03/15/23 5:01 pm): Changed Micro Certificate in title to MicroCertificate for consistency with campus naming convention.

Key: 959