

Date Submitted: 10/08/20 2:30 pm

# Viewing: **ENTSGC : Enterprise Systems Graduate Certificate**

Last approved: 05/28/20 8:58 am

Last edit: 11/23/20 4:17 pm

Changes proposed by: kboston

Catalog Pages Using  
this Program

[Graduate Certificates](#)

[Information Systems \(ISYS\)](#)

Submitter: 575-4622      User ID: kboston      Phone:

Program Status      Active

Academic Level      Graduate

Type of proposal      Certificate

Select a reason for this modification

Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

Effective Catalog Year      Fall 2021

College/School Code  
Walton College of Business (WCOB)

Department Code  
Department of Information Systems (ISYS)

Program Code      ENTSGC

Degree      Graduate Certificate

CIP Code

## In Workflow

1. WCOB Dean Initial
2. GRAD Dean Initial
3. Director of Program Assessment and Review
4. Registrar Initial
5. Institutional Research
6. ISYS Chair
7. WCOB Curriculum Committee
8. WCOB Faculty
9. WCOB Dean
10. Global Campus
11. Provost Review
12. University Course and Program Committee
13. Graduate Committee
14. Faculty Senate
15. Provost Final
16. Provost's Office-- Notification of Approval
17. Registrar Final
18. Catalog Editor Final

## Approval Path

1. 10/08/20 11:20 am  
Karen Boston  
(kboston):  
Approved for WCOB  
Dean Initial
2. 10/08/20 11:27 am  
Pat Koski (pkoski):

- Approved for GRAD  
Dean Initial
3. 10/08/20 2:00 pm  
Alice Griffin  
(agriffin): Rollback  
to Initiator
4. 10/08/20 2:31 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Dean Initial
5. 10/08/20 5:03 pm  
Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
6. 10/08/20 8:12 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
7. 10/09/20 1:09 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
8. 10/09/20 1:13 pm  
Gary Gunderman  
(ggunderm):  
Approved for  
Institutional  
Research
9. 10/09/20 1:22 pm  
Rajiv Sabherwal  
(rsabherw):  
Approved for ISYS  
Chair
10. 10/09/20 1:26 pm  
Karen Boston  
(kboston):

- Approved for WCOB  
Curriculum  
Committee
11. 10/09/20 1:26 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Faculty
12. 10/09/20 1:27 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Dean
13. 10/09/20 1:37 pm  
Suzanne Kenner  
(skenner): Approved  
for Global Campus
14. 10/12/20 1:12 pm  
Terry Martin  
(tmartin): Approved  
for Provost Review
15. 10/23/20 5:16 pm  
Myrlinda Soedjede  
(myrlinda):  
Approved for  
University Course  
and Program  
Committee
16. 11/23/20 4:18 pm  
Pat Koski (pkoski):  
Approved for  
Graduate  
Committee

## History

1. Mar 16, 2015 by  
Charlie Alison  
(calison)
2. Feb 3, 2017 by  
Charlie Alison

(calison)

3. May 14, 2018 by  
afrizze4. May 21, 2019 by  
Karen Boston  
(kboston)5. Jun 5, 2019 by  
Charlie Alison  
(calison)6. Jun 5, 2019 by  
Charlie Alison  
(calison)7. May 28, 2020 by  
Charlie Alison  
(calison)

52.1301 - Management Science.

## Program Title

Enterprise Systems Graduate Certificate

## Program Delivery

## Method

On Campus

Online/Web-based

Is this program interdisciplinary?

No

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

No

What are the total      12  
hours needed to  
complete the  
program?

## On-line/Web-based Information

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## Reason for offering

## Web-based Program

This program was approved for 100% online delivery in 2014. Currently it is being offered in one track as 100% (Business Analytics) and as blended (50 to 99%) in the other two tracks (Enterprise Resource Planning

& Information Systems).

Maximum Class Size 25  
for Web-based  
Courses

Course delivery  
mode

<b>Method(s)</b>
Online

Class interaction  
mode

<b>Method(s):</b>
Electronic Bulletin Boards

Percent Online

100% with No Required Campus Component  
50-99%

Provide a List of  
Services Supplied by  
Consortia Partners or  
Outsourced  
Organization  
Lynda.com

Estimate Costs of the no additional costs  
Program over the  
First 3 Years

List Courses Taught  
by Adjunct Faculty

Upload  
Memorandum of  
Understanding Forms  
(if required)

## Program Requirements and Description

Requirements

**The Graduate Certificate in Enterprise Systems is a part-time program offered on campus, blended, and online. It is designed to provide graduate students with knowledge and experience in information systems**

used in modern enterprise environments. The demand for skilled professionals in information systems continues to outpace the supply of qualified applicants. Students may choose one of four tracks for the Graduate Certificate in Enterprise Systems: Blockchain Enterprise Systems, Business Analytics, Cybersecurity and Data, or Enterprise Resource Planning. The certificate program is intended to be completed part-time (ordinarily no more than six hours per semester), and is open to individuals with backgrounds in any discipline.

**Admission Requirements:** The Graduate Certificate in Enterprise Systems is a part-time program open to individuals with backgrounds in any discipline. Students must apply and be admitted to the Graduate School of Business; the GMAT/GRE requirement is waived for the Graduate Certificate in Enterprise Systems degree program. (Students who have earned a GPA 3.5 or better upon completion of the certificate program and subsequently apply to the part-time Master of Information Systems program (Professional M.I.S.) will not be required to submit a test score). Information regarding Graduate School of Business admission requirements can be found earlier in this chapter.

## Requirements for the Graduate Certificate in Enterprise Systems: (12 hours)

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To receive the Graduate Certificate in Enterprise Systems, students must select one of the tracks below. Students are required to take 9 hours of coursework in the Walton College of Business and 3 hours of electives related to Enterprise Systems in either the Walton College or in another college at the University of Arkansas. Elective courses other than those listed below must be approved by the director of the certificate program. Some elective courses have prerequisites that are not met by courses in the certificate program. Students are advised to check prerequisites prior to enrolling in a course.

Required Course

Choose at least one of the following depending on the track chosen:

**ISYS 5013 DATA AND CYBERSECURITY**

**Course ISYS 5013 DATA AND CYBERSECURITY Not Found**

[ISYS 5173](#)

Blockchain Fundamentals

[ISYS 5103](#)

Data Analytics Fundamentals

[ISYS 5213](#)

ERP Fundamentals

### Blockchain Enterprise Systems Track

This track is open to individuals with backgrounds in fields other than Information Systems and is designed to provide non-IS graduate students with the fundamental knowledge and skills needed to successfully transition to a career in the Information Systems field. Students who complete this track will have exposure to fundamental principles of blockchain, enterprise information systems, and techniques for management and development of blockchain projects.

Required Courses (9 hours)

<a href="#"><u>ISYS 5173</u></a>	Blockchain Fundamentals	3
<a href="#"><u>ISYS 5133</u></a>	Blockchain and E Business Development	3
<a href="#"><u>ISYS 5453</u></a>	Blockchain and Enterprise Data	3

Students should choose 3 hours of coursework from among the following: 3

<a href="#">ISYS 5103</a>	Data Analytics Fundamentals (recommended)
<a href="#">ISYS 5213</a>	ERP Fundamentals
<a href="#">ISYS 5463</a>	Enterprise Transaction Systems
<a href="#">ISYS 5833</a>	Data Management Systems

Total Hours

12

### Cybersecurity and Data Track

This track is open to individuals with backgrounds in any discipline and is designed to provide business and non-business graduate students a foundation to help organizations assess and detect threats while securing and protecting data and data-driven systems against a myriad of threats such as malicious software, hacking, insider threats, and other cybercrimes.

Required Courses:

9

[ISYS 5013 DATA AND CYBERSECURITY](#)

Course ISYS 5013 DATA AND CYBERSECURITY Not Found

[ISYS 5023 DATA AND SYSTEM SECURITY](#)

Course ISYS 5023 DATA AND SYSTEM SECURITY Not Found

[ISYS 5043](#)

Course ISYS 5043 Not Found

Students should choose 3 hours of coursework from among the following:

3

[ISYS 5033](#)

Course ISYS 5033 Not Found

[ISYS 5053](#)

Course ISYS 5053 Not Found

[ISYS 511V](#)

IT Toolkit &amp; Skills Seminar

[ISYS 5103](#)

Data Analytics Fundamentals

[ISYS 5173](#)

Blockchain Fundamentals

[ISYS 5213](#)

ERP Fundamentals

Total Hours

12

### Business Analytics Track

This track is open to individuals with backgrounds in any discipline and is designed to give business and non-business graduate student's knowledge and experience in the management and use of enterprise data for operations and decision-making. The ability to effectively manage and analyze increasingly large and complex sets of data is highly valued among employers in all disciplines, as "business intelligence" becomes a primary source of competitive advantage in many organizations. Students who complete this track will have a foundation in the effective management and use of relational and dimensional data, the application of statistical decision-making theory, and the exploration and exploitation of data using advanced data mining tools and techniques. Students completing this track may be eligible to receive a certificate endorsed by the SAS Institute.

Required Courses (9 hours)

<a href="#">ISYS 5103</a>	Data Analytics Fundamentals	3
<a href="#">ISYS 5503</a>	Decision Support and Analytics	3
<a href="#">ISYS 5843</a>	Seminar in Business Intelligence and Knowledge Management	3

Students should choose 3 hours of coursework from among the following:

3

[ISYS 511V](#) IT Toolkit & Skills Seminar (this course may not be used for the Masters of Information Systems Degree)

[ISYS 5133](#) Blockchain and E Business Development

[ISYS 5213](#) ERP Fundamentals

[ISYS 5423](#) Seminar in Systems Development

[ISYS 5833](#) Data Management Systems

Total Hours

12

**Enterprise Resource Planning Track**

This track is open to individuals with backgrounds in any discipline and is designed to provide business and non-business graduate students a foundation in the effective use, implementation, and customization of Enterprise Resource Planning (ERP) systems. ERP systems support integrated core business processes in nearly every large organization, and knowledge of and experience with these systems are highly valued among employers in all business disciplines. Students who complete this track will have exposure to fundamental principles of ERP and techniques for configuration, implementation, and development of ERP systems. Students completing this track may be eligible to receive a certificate endorsed by SAP America and the SAP University Alliances Program.

Required Courses (9 hours)

<a href="#">ISYS 5213</a>	ERP Fundamentals	3
<a href="#">ISYS 5223</a>	ERP Configuration and Implementation	3
<a href="#">ISYS 5233</a>	Seminar in ERP Development	3

Students should choose 3 hours of coursework from among the following: 3

- [ISYS 511V](#) IT Toolkit & Skills Seminar (recommended)
- [ISYS 5103](#) Data Analytics Fundamentals
- [ISYS 5173](#) Blockchain Fundamentals
- [ISYS 5453](#) Blockchain and Enterprise Data
- [ISYS 5833](#) Data Management Systems

Total Hours

12

Are Similar Programs available in the area?

No

Estimated Student Demand for Program NA

Scheduled Program Review Date 2021-2022

Program Goals and Objectives

**Program Goals and Objectives**



### Program Goals and Objectives

#### CRITICAL THINKING/PROBLEM SOLVING

Students who have completed the Graduate Certificate in Enterprise Systems will be able to identify, analyze, compare, and select systems and data to provide solutions to business problems using enterprise technology.

#### TECHNICAL COMPETENCE (Discipline Knowledge)

Students who have completed the Graduate Certificate in Enterprise Systems will be able to develop and implement enterprise solutions to business problems.

#### Learning Outcomes

### Learning Outcomes

Learning Objective (CTPS): Students will demonstrate critical thinking and strategic problem solving through classroom projects and/or exams.

Learning Objective (TCDK): Students will demonstrate the ability to design, develop, and utilize enterprise technology appropriately in the context of business applications.

#### Description and justification of the request

Description of specific change	Justification for this change
<p>Added introductory language to catalog text outlining four areas to choose from and adding new, Cybersecurity track.</p> <p>Added ISYS 5103 to the Required Courses.</p> <p>Added the Cybersecurity track and the associated 12 hours required/electives to the Graduate Certificate in Enterprise Systems.</p>	<p>To provide a Cybersecurity track in the Graduate Certificate in Enterprise Systems for students interested in helping organizations assess and detect threats while securing and protecting data and data-driven systems.</p>

#### Upload attachments

#### Reviewer Comments

**Alice Griffin (agriffin) (10/08/20 1:51 pm):** Changed the use of the word "concentration" to "track" to be consistent with academic terms and definitions policies.

**Alice Griffin (agriffin) (10/08/20 1:52 pm):** Revised ISYS 4043 course title to match course title submitted into Course Management.

**Alice Griffin (agriffin) (10/08/20 2:00 pm):** Rollback: Please review list of required courses with list of required courses in the Cybersecurity and Data track.

**Lisa Kulczak (lkulcza) (10/09/20 1:09 pm):** All courses "Not Found" are in the approval process.