

Date Submitted: 10/12/18 2:01 pm

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

Last approved: 05/14/18 9:06 am

Last edit: 10/17/18 11:46 am

Changes proposed by: kboston

Catalog Pages Using this Program

- [Graduate Certificates](#)
- [Information Systems \(ISYS\)](#)

Submitter:	User ID:	<b>kboston</b> <del>calison</del>	Phone:
		<b>575-4622</b> <del>575-6731</del>	
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 Focused Study)			
Effective Catalog Year	Fall 2019		
College/School Code	Walton College of Business(WCOB)		
Department Code	<b>Department of Information Systems(ISYS)</b> <del>INSY</del>		
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. **ADE Licensure Approval**
17. **Provost's Office-- Notification of Approval**
18. **Registrar Final**
19. **Catalog Editor Final**

## Approval Path

1. 10/09/18 3:09 pm  
Karen Boston (kboston):  
Approved for WCOB Dean Initial

2. 10/10/18 7:47 am  
Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
3. 10/12/18 9:02 am  
Terry Martin  
(tmartin): Approved  
for Provost Initial
4. 10/12/18 1:44 pm  
Alice Griffin  
(agriffin): Rollback  
to Initiator
5. 10/12/18 2:03 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Dean Initial
6. 10/12/18 2:35 pm  
Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
7. 10/12/18 2:42 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
8. 10/16/18 5:09 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
9. 10/17/18 8:35 am  
Gary Gunderman  
(ggunderm):  
Approved for  
Institutional  
Research
10. 10/26/18 6:50 pm  
Rajiv Sabherwal

- (rsabherw):  
Approved for ISYS  
Chair
11. 10/30/18 3:03 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Curriculum  
Committee
12. 10/30/18 3:04 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Faculty
13. 10/30/18 3:05 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Dean
14. 10/31/18 3:03 pm  
Miran Kang (kang):  
Approved for Global  
Campus
15. 10/31/18 4:24 pm  
Terry Martin  
(tmartin): Approved  
for Provost Review
16. 11/16/18 4:05 pm  
Alice Griffin  
(agriffin): Approved  
for University  
Course and Program  
Committee
17. 12/18/18 4:38 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  
afrizze

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

**Method(s)**

**Method(s)**

Online

Class interaction  
mode**Method(s):**

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**

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### 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 three tracks for the Graduate Certificate in Enterprise Systems: Blockchain Enterprise Systems, Business Analytics, 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 MIS**) 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)

To receive the Graduate Certificate in Enterprise Systems, students must select one of the **tracks concentrations** 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

for all tracks

<del>ISYS 5833</del>	<del>Data Management Systems</del>	<del>3</del>
<del>or ISYS 5213</del>	<del>ERP Fundamentals</del>	
<b>ISYS 5103</b>	<b>Data Analytics Fundamentals</b>	<b>3</b>
<del>or ISYS 5213</del>	<del>ERP Fundamentals</del>	
<del>or ISYS 5173</del>	<del>Course ISYS 5173 Not Found</del>	

### Blockchain Enterprise Information Systems Track Concentration

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

Required Courses (9 hours)		9
<del>ISYS 511V</del>	<del>IT Toolkit &amp; Skills Seminar (this course may not be used for the Master of Information Systems Degree)</del>	<del>3</del>
<del>ISYS 5423</del>	<del>Seminar in Systems Development</del>	<del>3</del>
<b>ISYS 5173 Blockchain Fundamentals</b>	<b>Course ISYS 5173 Blockchain Fundamentals Not Found</b>	
<del>ISYS 5133</del>	<del>E Business Development and Analytics</del>	
<del>ISYS 5453</del>	<del>Enterprise Data</del>	

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

<b>ISYS 5103</b>	<b>Data Analytics Fundamentals</b>	
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<a href="#">ISYS 5213</a>	ERP Fundamentals (recommended)	
<a href="#">ISYS 5463</a>	<b>Enterprise Transaction Systems</b>	
<a href="#">ISYS 5833</a>	Data Management Systems	
<b>Elective Course</b>		
<a href="#">ISYS 5933</a>	Global Technology and Analytics Seminar	
Total Hours		12

**Students who successfully complete this concentration may be eligible to receive a certificate endorsed by Microsoft Business Analytics Track Concentration**

This **track concentration** 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 concentration** 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 concentration** may be eligible to receive a certificate endorsed by the SAS Institute.

Required Courses (9 hours)		9
<a href="#">ISYS 5103</a> Data Analytics Fundamentals		
<a href="#">ISYS 5503</a> Decision Support and Analytics		
<a href="#">ISYS 5843</a> Seminar in Business Intelligence and Knowledge Management		

**Elective Course**

Students should choose 3 hours of coursework from among the following:		3
<a href="#">ISYS 511V</a> IT Toolkit & Skills Seminar (this course may not be used for the Masters of Information Systems Degree)		
<a href="#">ISYS 5133</a> E Business Development and Analytics		
<a href="#">ISYS 5213</a> ERP Fundamentals		
<a href="#">ISYS 5423</a> Seminar in Systems Development		
<a href="#">ISYS 5833</a> Data Management Systems		

Total Hours		12
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**Enterprise Resource Planning Track Concentration**

This **track concentration** 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 concentration** will have exposure to fundamental principles of ERP and techniques for configuration, implementation, and development of ERP systems. Students completing this **track concentration** 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

~~Elective Course (3 hours)~~

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](#)** **[Course ISYS 5173 Blockchain Fundamentals Not Found](#)**

[ISYS 5453](#) Enterprise Data

[ISYS 5833](#) Data Management Systems

[ISYS 5933](#) Global Technology and Analytics Seminar

Total Hours 12

Are Similar Programs available in the area?

No

Estimated Student NA

Demand for Program

Scheduled Program 2021-2022

Review Date

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. ~~NA~~**

Learning Outcomes

**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.**

~~NA~~

Description and justification of the request

<b>Description of specific change</b>	<b>Justification for this change</b>
Modify catalog text for the Blockchain Enterprise Systems track and change the name of the Enterprise Systems track to Blockchain Enterprise Systems. Add ISYS 5173, Blockchain Fundamentals to the Blockchain Enterprise Systems track. Add ISYS 5103, Data Analytics Fundamentals to and delete ISYS 5103, Data Analytics Fundamentals from the three hours of electives for the Business Analytics Track. Add ISYS 5173, Blockchain Fundamentals to the ERP Track.	We are updating the ERP curriculum to include blockchains, a current relevant technology affecting enterprise systems.

Upload attachments

Reviewer Comments

**Alice Griffin (agriffin) (10/12/18 11:41 am):** Inserted program goals and student learning outcomes from college's assessment report.

**Alice Griffin (agriffin) (10/12/18 1:40 pm):** Changed language from concentrations to tracks. There are too few hours in a graduate certificate to provide concentrations. The tracks will be identified on a student's transcript.

**Alice Griffin (agriffin) (10/12/18 1:44 pm):** Rollback: Please change reason for modification to minor change and resubmit request. Concentrations were changed to tracks per direction from L. Kulczak. This request will remain on campus for approval. To assist, I changed all the concentration language to track and removed the LON.

**Lisa Kulczak (lkulcza) (10/16/18 5:09 pm):** Renaming an existing track; ISYS course "not found" in approval process for fall 2019.

**Alice Griffin (agriffin) (10/17/18 11:46 am):** Corrected Department Code from INSY to Department of Information Systems.