

## New Program Proposal

Date Submitted: 10/09/20 4:57 pm

### Viewing: **CYBRCP : Cybersecurity and Data Management, Certificate of Proficiency**

Last edit: 10/13/20 10:27 am

Changes proposed by: kboston

Submitter: User ID: kboston Phone:  
575-4622

Program Status Active

Academic Level Undergraduate

Type of proposal Certificate

Select a reason for this new program Adding New Undergraduate Certificate of Proficiency (6-21 semester hours)--(LON)

Effective Catalog Year Fall 2021

College/School Code  
Walton College of Business (WCOB)

Department Code  
Department of Information Systems (ISYS)

Program Code CYBRCP

Degree Certificate of Proficiency

CIP Code

#### In Workflow

1. **WCOB Dean Initial**
2. **Provost 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. Faculty Senate
14. Provost Final
15. Provost's Office-- Documentation sent to System Office
16. Higher Learning Commission
17. Board of Trustees
18. ADHE Final
19. Provost's Office-- Notification of Approval
20. Registrar Final
21. Catalog Editor Final

#### Approval Path

1. 10/09/20 4:57 pm  
Karen Boston

- (kboston):  
Approved for WCOB  
Dean Initial
2. 10/12/20 1:12 pm  
Terry Martin  
(tmartin): Approved  
for Provost Initial
3. 10/13/20 10:28 am  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
4. 10/16/20 5:18 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
5. 10/16/20 7:28 pm  
Gary Gunderman  
(ggunderm):  
Approved for  
Institutional  
Research
6. 10/16/20 8:07 pm  
Rajiv Sabherwal  
(rsabherw):  
Approved for ISYS  
Chair
7. 10/22/20 3:16 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Curriculum  
Committee
8. 10/22/20 3:33 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Faculty

- 9. 10/22/20 3:33 pm  
Karen Boston  
(kboston):  
Approved for WCOB  
Dean
- 10. 10/22/20 3:57 pm  
Suzanne Kenner  
(skenner): Approved  
for Global Campus
- 11. 10/27/20 2:05 pm  
Terry Martin  
(tmartin): Approved  
for Provost Review

43.0116 - Cyber/Computer Forensics and Counterterrorism.

Program Title

Cybersecurity and Data Management, Certificate of Proficiency

Program Delivery

Method

On Campus

Is this program interdisciplinary?

No

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

No

What are the total hours needed to complete the program? 15

## Program Requirements and Description

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### Requirements

## Certificate of Proficiency in Cybersecurity and Data Management

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Students pursuing the Certificate of Proficiency in Cybersecurity and Data Management Program in the Information Systems Department of the Sam M. Walton College of Business must 1) meet the admission

requirements for the University of Arkansas and 2) have completed pre-business and business core requirements as well as maintain at least a 2.50 (on a 4.0 scale) overall grade-point average.

Required Core Courses:

ISYS 4013 PRINCIPLES OF DATA AND CYBERSECURITY

Course ISYS 4013 PRINCIPLES OF DATA AND CYBERSECURITY  
Not Found

ISYS 4023 NETWORK AND DATA SECURITY IN A CHANGING WORLD

Course ISYS 4023 NETWORK AND DATA SECURITY IN A CHANGING WORLD  
Not Found

ISYS 4043 CYBERSECURITY, CRIME AND DATA PRIVACY LAW FUNDAMENTALS

Course ISYS 4043 CYBERSECURITY, CRIME AND DATA PRIVACY LAW FUNDAMENTALS  
Not Found

Elective Courses:

ISYS 4033 ADVANCED INFORMATION SECURITY MANAGEMENT

Course ISYS 4033 ADVANCED INFORMATION SECURITY MANAGEMENT  
Not Found

ISYS 4053 ADVANCED CYBERSECURITY, CRIME AND PRIVACY LAW

Course ISYS 4053 ADVANCED CYBERSECURITY, CRIME AND PRIVACY LAW  
Not Found

ISYS 4173

Blockchain Fundamentals

ISYS 3273 CRYPTOCURRENCY

Course ISYS 3273 CRYPTOCURRENCY  
Not Found

MGMT 4243

Ethics and Corporate Responsibility

Total Hours

15

All specific course prerequisites must be met. Each student must have a 2.00 cumulative grade-point average in the courses offered for the certificate. All upper-division minor requirements must be taken in residence.

8-Semester Plan

Program Costs

Courses already included in the Cybersecurity Management minor for business majors, concentration in Data Science, Graduate Certificate and Master's of Information Systems.

Library Resources

N/A

Instructional

Facilities

N/A

Faculty Resources

Utilizing existing faculty in Information Systems department.

List Existing Certificate or Degree Programs

that Support the Proposed Program

<b>Program(s)</b>
DTSCBS-CYBR - Data Science: Cybersecurity Concentration
WCYB-M - Data and Cybersecurity Management Minor for Business Majors

Are Similar Programs available in the area?

No

Estimated Student Demand for Program      25

Scheduled Program Review Date      2021-2022

Program Goals and Objectives

<b>Program Goals and Objectives</b>
The certificate is designed to develop graduates able 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; to learn and apply best industry practices to minimize data collection, protect client and individual privacy, and otherwise further ethical data management. Students will not only learn about cybersecurity, crime, and privacy law; and learn about techniques of risk assessment, continuity planning, and threat detection.

Learning Outcomes

<b>Learning Outcomes</b>

**Learning Outcomes**

Upon completion of the certificate, students will:

- Have mastered the technical strategies, tools and techniques commonly used to secure data and information in the enterprise.
- Understand and be able to apply cybersecurity, crime, tort, and privacy law to the management of data and systems.
- Understand disclosure, notification, breach, and other privacy and transparency obligations under state, federal, and international law.
- Be able to detect and identify common malicious software and attack protocols.
- Be able to apply critical thinking to creatively and systematically solve problems and meet challenges of the ever-evolving environments of cyber security.
- Understand the state of cybersecurity nationally and globally.
- Be able to apply data and cybersecurity management techniques to their fields of study.

Description and Justification for this request

Description of request	Justification for request
To add a Certificate in Data and Cybersecurity Management.	To provide an undergraduate certificate for students interested in helping organizations assess and detect threats while securing and protecting data and data-driven systems who may not otherwise pursue a minor or data science concentration in Cybersecurity.

Upload attachments

[CYBRCP - New Certificate - Ltr of Notification.pdf](#)

[CYBRCP - New Certificate - Supporting Documentation.docx](#)

Reviewer Comments

**Alice Griffin (agriffin) (10/13/20 9:31 am):** Revised program code and program title to match campus naming convention.

**Alice Griffin (agriffin) (10/13/20 9:34 am):** Minor edits in program requirements to match name of certificate.

**Alice Griffin (agriffin) (10/13/20 9:39 am):** Changed course title ISYS 4043 to match title submitted into Course Inventory. Entered course title for ISYS 4053. Verified all courses in red have been submitted into the approval process, currently pending UCPC.

**Alice Griffin (agriffin) (10/13/20 10:22 am):** Removed BSBA language from the LON. Added Certificate of Proficiency. Inserted approval dates and renamed document to match BOT naming convention. In addition, updated course titles in supporting document to match course titles submitted into Course Inventory.

**Alice Griffin (agriffin) (10/13/20 10:27 am):** The curriculum presented matched the definition of a certificate of proficiency, not an advanced certificate. Therefore, I changed the program title and program code from AC to CP.

Key: 798