

Date Submitted: 10/08/20 11:00 am

## Viewing: **INSYMI : Information Systems, Master of Information Systems**

Last approved: 06/05/19 1:43 pm

Last edit: 10/09/20 1:31 pm

Changes proposed by: kboston

Catalog Pages Using  
this Program

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

Submitter: User ID: **kboston** ~~eronan~~ Phone:  
**575-4622** ~~575-6130~~

Program Status Active

Academic Level Graduate

Type of proposal Major/Field of Study

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)

Are you adding a concentration?

**No** ~~Yes~~

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog Year Fall 2021

College/School Code

Walton College of Business (WCOB)

Department 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. **ENGR Dean**
10. **WCOB Dean**
11. **Global Campus**
12. **Provost Review**
13. **University Course and Program Committee**
14. Graduate Committee
15. Faculty Senate
16. Provost Final
17. Provost's Office-- Notification of Approval
18. Registrar Final
19. Catalog Editor Final

### Approval Path

1. 10/07/20 5:10 pm  
Karen Boston  
(kboston): Approved for WCOB Dean Initial
2. 10/07/20 5:13 pm

## Department of Information Systems (ISYS)

Program Code           INSYMI  
Degree                 Master of Information Systems  
CIP Code

- Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
3. 10/08/20 9:57 am  
Alice Griffin  
(agriffin): Rollback  
to Initiator
4. 10/08/20 11:04 am  
Karen Boston  
(kboston): Approved  
for WCOB Dean  
Initial
5. 10/08/20 11:28 am  
Pat Koski (pkoski):  
Approved for GRAD  
Dean Initial
6. 10/08/20 6:49 pm  
Alice Griffin  
(agriffin): Approved  
for Director of  
Program  
Assessment and  
Review
7. 10/09/20 1:32 pm  
Lisa Kulczak  
(lkulcza): Approved  
for Registrar Initial
8. 10/09/20 1:41 pm  
Gary Gunderman  
(ggunderm):  
Approved for  
Institutional  
Research
9. 10/09/20 1:42 pm  
Rajiv Sabherwal  
(rsabherw):  
Approved for ISYS  
Chair
10. 10/09/20 1:43 pm  
Karen Boston  
(kboston): Approved

for WCOB  
Curriculum  
Committee

11. 10/09/20 1:43 pm  
Karen Boston  
(kboston): Approved  
for WCOB Faculty
12. 10/13/20 2:36 pm  
Norman Dennis  
(ndennis): Approved  
for ENGR Dean
13. 10/13/20 6:21 pm  
Karen Boston  
(kboston): Approved  
for WCOB Dean
14. 10/14/20 8:27 am  
Suzanne Kenner  
(skenner): Approved  
for Global Campus
15. 10/14/20 1:39 pm  
Terry Martin  
(tmartin): Approved  
for Provost Review

## History

1. Jun 10, 2015 by  
Charlie Alison  
(calison)
2. May 15, 2017 by  
tjhampt
3. Sep 28, 2017 by Lisa  
Kulczak (lkulcza)
4. Nov 27, 2017 by Lisa  
Kulczak (lkulcza)
5. May 22, 2019 by  
Karen Boston  
(kboston)
6. Jun 5, 2019 by  
Charlie Alison  
(calison)

52.1301 - Management Science.

## Program Title

Information Systems, Master of Information Systems

## Program Delivery

## Method

On Campus

Off Campus

Online/Web-based

Is this program interdisciplinary?

No

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

Yes

College(s)/School(s)

College/School Name

College of Engineering (ENGR)

What are the total  
hours needed to  
complete the  
program?

30

## Off Campus Information

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## Off Campus

## Location(s)

Location Name	Address	Distance from Main Site
previously provided	previously provided	previously provided

## Reason for Offering

## Program Off Campus

This change is simply a clean up since this program was approved for hybrid/online delivery more than ten years ago. There are no changes to the program

Fifty percent of the  
credits required will  
be offered

Both - off-campus location and distance technology

Will Students complete all Program Requirements at this Location?

Yes

Upload  
Memorandum of  
Understanding Forms  
(if required)

## On-line/Web-based Information

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Reason for offering  
Web-based Program

NA

Maximum Class Size      50  
for Web-based  
Courses

Course delivery  
mode

Method(s)
Online

Class interaction  
mode

Method(s):
Electronic Bulletin Boards

Percent Online  
50-99%

Provide a List of  
Services Supplied by  
Consortia Partners or  
Outsourced  
Organization  
NA

Estimate Costs of the      NA  
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 Master of Information Systems is designed to provide professional preparation for positions in business and government. It provides sufficient flexibility to meet the needs of students with various backgrounds and foster lifelong learning and innovation. Students may concentrate in one of five areas: Information Technology Management, Enterprise Resource Planning (ERP) Management, Blockchain Enterprise Systems Management, Cybersecurity Management, or Software Engineering Management.**

**Admission Requirements:** The Master of Information Systems program is open to students who have earned a bachelor's degree from an accredited institution and who can present evidence of their ability to do graduate work. "Evidence of ability" means superior grade-point average, an acceptable test score on the Graduate Management Admission Test (GMAT) or Graduate Record Exam (GRE), and recommendations with respect to ability for successful pursuit of graduate-level work. International applicants and resident aliens must submit an acceptable TOEFL or IELTS score, or complete the Intensive English Language Program (Spring International Language Center) and receive an English proficiency recommendation for admission. Other admissions criteria can be considered on a case by case basis.

**Requirements for the Master of Information Systems Degree:** Students whose previous studies have fulfilled requirements of the common body of knowledge in business and information systems will be required to complete a minimum of 30 hours of graduate work. The required common body of knowledge in Information Systems includes management information systems, systems analysis, database, and programming languages (such as Visual Basic, Java, or other).

To ensure that students acquire the skills necessary for career success, the M.I.S. program strongly encourages all students to obtain additional training directly related to the M.I.S. program prior to graduation. The M.I.S. program considers this training an integral part of the curriculum and recommends that students work for up to one year in a position (or positions) which allow for the practical application of the theoretical principles taught in M.I.S. courses.

Students who hold non-immigrant status in the United States in the F-1 or J-1 categories are responsible for coordinating any necessary authorization for employment with the Office of International Students and Scholars (ISS). F-1 and J-1 students are strongly advised to discuss training options with the M.I.S. Program Director and the ISS office early in their program, and to make themselves aware of limitations and restrictions related to F-1 or J-1 employment authorization benefits.

### Pre-M.I.S.

**ISYS 511V** IT Toolkit & Skills Seminar (This course may not be used for the Master of Information Systems degree.)

### Core Courses

<u>ISYS 5423</u>	Seminar in Systems Development	3
<u>ISYS 5833</u>	Data Management Systems	3
<u>ISYS 5943</u>	Management of Information Technology Seminar	3
Areas of Concentration		15
<del>Select one of the following concentrations:</del>		
<del>Information Technology Management</del>		
<del>ISYS 5213 ERP Fundamentals</del>		
<del>ISYS 5503 Decision Support and Analytics</del>		
<del>Computing Electives (9 hours) selected from approved ISYS and CSCE</del>		
<del>Enterprise Resource Planning (ERP) Management</del>		
<del>ISYS 5213 ERP Fundamentals</del>		
<del>ISYS 5223 ERP Configuration and Implementation</del>		
<del>ISYS 5233 Seminar in ERP Development</del>		
<del>Select six hours from the following:</del>		
<del>ISYS 5103 Data Analytics Fundamentals</del>		
<del>ISYS 5133 Blockchain and E-Business Development</del>		
<del>ISYS 5173 Blockchain Fundamentals</del>		
<del>ISYS 5453 Blockchain and Enterprise Data</del>		
<del>ISYS 5503 Decision Support and Analytics</del>		
<del>ISYS 5843 Seminar in Business Intelligence and Knowledge Management</del>		
<del>Blockchain Enterprise Systems (BES) Management</del>		
<del>ISYS 5133 Blockchain and E-Business Development</del>		
<del>ISYS 5173 Blockchain Fundamentals</del>		
<del>ISYS 5453 Blockchain and Enterprise Data</del>		
<del>Select six hours from the following:</del>		
<del>ISYS 5103 Data Analytics Fundamentals</del>		
<del>ISYS 5213 ERP Fundamentals</del>		
<del>ISYS 5463 Enterprise Transaction Systems</del>		
<del>ISYS 5503 Decision Support and Analytics</del>		
<del>ISYS 5843 Seminar in Business Intelligence and Knowledge Management</del>		
<del>Software Engineering Management</del>		
<del>ISYS 5133 Blockchain and E-Business Development</del>		
<del>ISYS 5503 Decision Support and Analytics</del>		
<del>Select nine hours from the following:</del>		
<del>CSCE 3513 Software Engineering</del>		
<del>CSCE 5173 Formal Languages and Computability</del>		
<del>CSCE 5323 Computer Security</del>		
<del>ISYS or CSCE courses (approved by Director)</del>		
Electives		6
Total Hours		30

**M.I.S. (Part-time):** The Department of Information Systems also provides an opportunity for professionals in the

workplace to complete the program by taking 6 hours per semester; 5 semester program with Enterprise Resource Planning (ERP) Management and Blockchain Enterprise Systems (ES) Management concentrations. Contact the department for additional information or visit the [Graduate School of Business website](#).

Electives are chosen by the student in consultation with the Master of Information Systems Program Director in the Department of Information Systems (ISYS). Approved electives (6 hours) may be any graduate course approved by the Master of Information Systems program director.

With the approval of the Master of Information Systems Program Director, any senior-level ISYS course (ISYS 4000 or higher) may be taken for graduate credit. After admission, the student must maintain a 3.00 grade-point average on all graduate coursework and all information systems coursework. Additionally, the student must receive a letter grade of at least a "B" in 75 percent of the courses attempted.

For the M.I.S. (part-time), approval of the Director is required to enroll in more than six hours per semester.

#### Are Similar Programs available in the area?

No

Estimated Student Demand for Program      NA

Scheduled Program Review Date      NA

Program Goals and Objectives

#### Program Goals and Objectives

The Master of Information System (MIS) program provides preparation for the business student at the graduate level to master information systems technology and achieve success in their careers in business/government/and industry. Student entering the MIS program are expected to have a working knowledge of information technology/as well as business. The MIS program of coursework enhances/broadens/extends/and integrates the student's knowledge of information technology and business concepts in order to solve business problems and support decision making.

Learning Outcomes

#### Learning Outcomes

##### COMMUNICATION

Learning Goal: Graduates of the MIS programs at the Sam M. Walton College of Business will be able to communicate effectively in professional situations.

Learning Objective 1 (Oral Communication): Students will be able to deliver effective presentations.

Learning Objective 2 (Written Communication): Students will show proficiency in writing and organizing professional communications.

### Learning Outcomes

#### CRITICAL THINKING/PROBLEM SOLVING

Learning Goal: Graduates of the MIS programs at the Sam M. Walton College of Business will be able to employ ethical problem solving and strategic decision making approaches to information system challenges.

Learning Objective 1 (Decision Making): Students will employ industry-accepted problem solving and decision making skills for IT problems/as well as the ability to evaluate and propose alternative solutions to managers and users.

Learning Objective 2 (Ethical Problem Solving): Students will demonstrate ethical problem solving approaches to IT challenges and opportunities faced by today's businesses in achieving their goals

#### TECHNICAL COMPETENCE (Discipline Knowledge)

Learning Goal: Graduates of the MIS programs at the Sam M. Walton College of Business will be will be knowledgeable of the application of information technology and business concepts.

Learning Objective: Students will demonstrate the ability to identify, assimilate, synthesize, and analyze the information technology needs, make

2 of 3

recommendations, design, and develop IT transaction systems and decision support systems for the organization.

#### TEAM WORK

Learning Goal: Graduates of the MIS programs at the Sam M. Walton College of Business will be effective at working in team environment.

Learning Objective: Students will demonstrate effective interpersonal communication skills as a part of a team

#### Description and justification of the request

Description of specific change	Justification for this change
Added introductory language to catalog text outlining five areas to choose from and adding new, Cybersecurity Management concentration.	To provide a Cybersecurity Management concentration in the MIS program for students interested in helping organizations assess and detect threats while securing and protecting data and data-driven systems.
Added the Cybersecurity Management concentration and the associated 15 hours required/electives.	
Dedicated CIM blocks were administratively created for all four currently existing concentrations. Department will submit a separate CIM block for Cybersecurity Management concentration. AG	In order to more effectively manage curriculum, each concentration should have a dedicated CIM block. AG

Upload attachments

Reviewer Comments

**Alice Griffin (agriffin) (10/08/20 9:57 am):** Rollback: Please remove concentration information from this CIM block and submit in new request for adding a concentration. Resubmit INSYMI for introductory information edits. Thank you.

**Alice Griffin (agriffin) (10/08/20 4:08 pm):** Removed concentrations from program requirements. Dedicated CIM blocks have been created for each.

**Alice Griffin (agriffin) (10/08/20 6:47 pm):** Added "Management" to Software Engineering concentration language to match title of concentration in catalog.

**Alice Griffin (agriffin) (10/08/20 6:49 pm):** Attention: This request requires campus approval because it is accompanying the addition of a new concentration in Cybersecurity Management.

**Lisa Kulczak (lkulcza) (10/09/20 1:31 pm):** Please clarify if students are required to select from one of the five concentrations in order to complete the degree.

Key: 458