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**MEMORANDUM**

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FINAL FACULTY SENATE APPROVAL ON 05/10/2016

TO: Faculty Senate  
FROM: Jack Kirby *JK*  
DATE: April 29, 2016  
SUBJECT: Curriculum Proposal #15-16-17, REV #2  
Information Systems Management

I recommend approval of the attached REVISION #2 Curriculum Proposal 15-16-17. This proposal seeks to revise the curriculum for the BS major in Information Systems Management.

Dr. Christina Lavorata  
Dr. Richard Harvey  
Dr. Rebecca Giorcelli  
Ms. Leslie Lovett  
Ms. Cheri Gonzalez  
Dr. Shayne Gervais






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## MEMORANDUM

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TO: Curriculum Committee

FROM: Jack Kirby 

DATE: April 5, 2016

SUBJECT: Curriculum Proposal #15-16-17, REV #1  
Information Systems Management

I recommend approval of the attached REVISION #1 Curriculum Proposal 15-16-17. This proposal seeks to revise the curriculum for the BS major in Information Systems Management.

Dr. Christina Lavorata  
Dr. Richard Harvey  
Dr. Rebecca Giorcelli  
Ms. Leslie Lovett  
Ms. Cheri Gonzalez  
Dr. Shayne Gervais






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**MEMORANDUM**

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TO: Curriculum Committee

FROM: Jack Kirby 

DATE: March 21, 2016

SUBJECT: Curriculum Proposal #15-16-17  
Information Systems Management

I recommend approval of the attached Curriculum Proposal 15-16-17. This proposal seeks to revise the curriculum for the BS major in Information Systems Management.

Dr. Christina Lavorata  
Dr. Richard Harvey  
Dr. Rebecca Giorcelli  
Ms. Leslie Lovett  
Ms. Cheri Gonzalez  
Dr. Shayne Gervais



## INFORMATION SYSTEMS MANAGEMENT CURRICULUM PROPOSAL

**Proposal Number:** 15-16-17 Revision #2

**Academic Unit:** School of Business  
Information Systems Management Department

**Contact Person:** Rebecca Giorcelli, Associate Dean, School of Business  
[rgiorcelli@fairmontstate.edu](mailto:rgiorcelli@fairmontstate.edu)

**Telephone Extension:** 4183

**Department Faculty:** Joe Blankenship, Marcus Fisher, Rebecca Giorcelli

**Date Originally Submitted:** March 2016

**Implementation Date Requested:** Fall 2016

### I. Proposal

The intent of this proposal is to request a revision of the curriculum for the BS major in Information Systems Management (ISM). The proposed changes in required courses for the ISM program curriculum include: BISM 4000 (3 required credit hours) will be deleted; BSBA 4420 (3 required credit hours) will be added; MGMT 3500 (3 required credit hours) will be added; BISM 4400 (3 required credit hours) will be changed from required to elective status. Additionally, changes are proposed for the list of prerequisites for the following courses: BISM 2600, BISM 3000; BISM 3400; BISM 3600; BISM 3800; and, BISM 4800.

This curriculum proposal is being driven by the noted areas for improvement within the program as a result of the program assessment process. The current and proposed program formats can be found in Appendix A.

## Description of Proposal

*a. Deletion of Courses/credits from program:*

**Total Hours Deleted: 3 credit hours**

• **Course to be completely deleted from the Catalog**

Deletion of BISM required course:

BISM 4000 Global, Economic, Ethical, and Social IS 3 credit hours  
(BISM 4000 will also need removed from list of writing intensive course options)

*b. Addition of courses/credits to programs and total hours added:*

**Total Hours Added: 6 credit hours**

Addition of new courses:

BSBA 4420 Business Ethics 3 credit hours  
MGMT 3500 Project Management 3 credit hours

*c. Provision for interchangeable use of course(s) with program(s):* N/A

*d. Revision of course content:* N/A

*e. Other changes to existing courses such as changes to title, course number, and elective or required status.*

Change in course status from required to elective course:

BISM 4400 Current Topics in IS 3 credit hours

**Total Hours Changed: 3 credit hours**

Change in prerequisites for BISM courses:

BISM 2200 Business Information Tools  
- Clarify MATH 1100 or higher as pre-req  
BISM 2600 Introduction to Networking Administration  
- Delete BISM 2400 pre-req and replace with BISM 1200  
BISM 3000 Business Programming Logic  
- Delete BISM 2800 pre-req  
BISM 3400 Database Design and Development  
- Delete BISM 2800 pre-req  
BISM 3800 Object-oriented Business Applications  
- Delete BISM 3400 as pre-req  
BISM 4800 Information Systems Project Management  
- Add MGMT 3500 as pre-req

*f. Creation of new course(s).* N/A

***g. Attach an itemized summary of the present program(s) affected, if any, and of the proposed change(s).***

***1. Describe how this proposal affects the hours needed to complete this program. Specifically, what is the net gain or loss in hours?***

There are no changes to the current total hours or breakdown of hours within any category (i.e., required hours, free electives, general studies, etc.).

Appendix C provides the model schedule based on the proposed curriculum.

***2. Include proof that this proposal meets the degree definition policy (Board of Governors Policy #52)***

The revised curriculum meets the degree definition policy set forth by the Board of Governors. The program will still require 120 hours. The coursework requirement in the major area (Information Systems Management) remains at 63 hours. (There is no required minor for the proposed ISM degree.) The general studies requirement remains at 42 hours to meet all university general studies requirements. The free elective requirement remains at 15 hours.

The current and proposed program formats can be found in Appendix A.

***3. Exceptions to the degree definition policy - Not Applicable***

## **II. Rationale for the Proposal**

### ***A. Quantitative Assessment:***

The Information Systems Management (ISM) program curriculum underwent significant revisions that were implemented in the Fall 2010 semester. Over the past few years, several areas for improvement have been noted for the program during the annual program assessment review process. Specifically, there has been a trend of increasing course overrides for BISM courses. For example, registration for the past two semesters resulted in 89 course overrides for five of the BISM courses.

#### **BISM 2200 Business Information Tools**

- Fall 2015: 26 total overrides for reasons “overall” and “pre/co req”
- Spring 2016: 23 overrides for reasons “overall”, “pre/co req” and “spec approv”

#### **BISM 2600 Intro to Networking Administration**

- Spring 2016: 9 overrides for “pre/co req”

#### **BISM 3000 Business Programming Logic**

- Fall 2015: 7 overrides for “overall” and “pre/co req”
- Spring 2016: 7 overrides for “overall” and “pre/co req”

### **BISM 3400 Database Design and Development**

- Fall 2015: 7 overrides for “overall” and “pre/co req”

### **BISM 3800 Object Orientated Business Applications**

- Fall 2015: 9 overrides for “overall” and “pre/co req”
- Spring 2016: 2 overrides for “overall” and “pre/co req”

After reviewing the current list of pre-requisite courses, the faculty agree that many of these need to be changed to accurately reflect the required content for the BISM courses.

### ***B. Qualitative Assessment:***

The rationale for each modification in the curriculum is described next:

#### **Delete BISM 4000 course requirement and add BSBA 4420**

Since the implementation of the revised ISM program curriculum in Fall 2010, the School of Business created the BSBA 4420 Business Ethics and Corporate Accountability course which meets the needs for the ethics component according to the ACBSP accreditation guidelines. Due to limited faculty within the ISM department compared to the demands for BISM course offerings, the substitution of this course to replace the currently offered BISM 4000 Global, Economic, Ethical and Social Information Systems is proposed.

#### **Change BISM 4400 course requirement to elective and replace with MGMT 3500 as the required course.**

The BISM 4800 IS Project Management capstone course was first implemented in Spring 2011. Student feedback has consistently indicated that there is a need to cover project management concepts in more depth prior to the capstone course where there is an expectation to put these concepts into practice within a real-world team-based project. The Project Management concepts are introduced in the BISM 4200 Systems Analysis and Design course but are a small part of the course overall. An Introduction to Project Management concepts was offered as a current topic for the BISM 4400 Current Topics in IS course. The students who successfully completed this course prior to the BISM 4800 capstone did much better overall. The School of Business recently created the MGMT 3500 Project Management course as an introduction to Project Management concepts given the lack of electives for Business students. Therefore, it is proposed that the MGMT 3500 course be required as a pre-requisite course for BISM 4800 and remove the requirement for the BISM 4400 course from the ISM program and change the status to elective.

#### **Changes in Prerequisites**

Most of the proposed changes in prerequisite course are based upon the tremendous number of override forms generated for students during registration over the past few years. It was determined that the ***BISM 2800 Corporate Communications and Technology*** course was listed as a pre-req for ***BISM 3000 Business Programming Logic*** and ***BISM 3400 Database Design and Development*** to ensure that the course was taken early rather than later in the student's schedule. However, with the tremendous need for the BISM 2800 course as a School of Business core course requirement and a lack of faculty, it is not possible to offer enough sections each

semester to accommodate the tremendous need. Therefore, it is being deleted as a pre-req from these courses since it is not a content pre-req.

The pre-requisite course for ***BISM 2200 Business Information Tools*** simply needs clarified such that the system recognizes MATH 1100 “or higher” as a pre-req.

The pre-requisite course for ***BISM 2600 Introduction to Networking Administration*** (a Fall only course) is currently ***BISM 2400 Operating Systems Concepts*** (a Spring only course). Therefore, if a student is missing BISM 2400 in the Fall, he/she must wait an additional year before taking the BISM 2600 class. After reviewing the content for each of these courses, the instructors determined that there was not a significant amount of content presented BISM 2400 that was needed for the BISM 2600 course. Therefore, the pre-requisite is being changed from BISM 2400 to ***BISM 1200 Introduction to Computing*** which does present a basic introduction to Operating Systems that is sufficient for the BISM 2600 course.

The pre-requisite course for the ***BISM 3800 Object-oriented Business Applications*** is currently ***BISM 3400 Database Design and Development***. Although it would be ideal for a student to have database development knowledge and experience given the BISM 3800 course covers the development of front-end programs for accessing databases, the reality is that the BISM 3400 course is a Fall only course which has resulted in the problem of either making the student wait a year if he/she is missing the course or providing an override. The practice has become to regularly provide the override since students are introduced to databases in the ***BISM 2200 Business Information Tools*** course and should have a sufficient background from successfully completing that course. By removing the BISM 3400 course as a pre-requisite, the students taking BISM 3800 will still have completed BISM 2200 as a pre-requisite course for the BISM 3000 course which is a content pre-requisite for BISM 3800.

**IV. Other Schools/Programs Affected by this Proposal**

<b>College/School</b>	<b>Dean</b>	<b>Signature</b>

**V. Additional Comments**



**APPENDIX A.1**  
**B.S. Degree in Information Systems Management**  
**Current Program**

<b>Required Major Courses</b>			<b>HRS</b>	<b>63</b>	<b>Policy</b>
BSBA	2201	Principles of Accounting I	3		
BSBA	2202	Principles of Accounting II	3		
BISM	2200	Business Information Tools	3		
BISM	2400	Operating Systems Concepts	3		
BISM	2600	Introduction to Networking Administration	3		
BISM	2800	Corporate Communications & Technology	3		
BISM	3000	Business Programming Logic	3		
BISM	3200	Management Information Systems	3		
BISM	3400	Database Design and Development	3		
BISM	3600	E-Commerce and Web Development Strategy	3		
BISM	3800	Object-Oriented Business Applications	3		
BISM	4000	Global, Economic, Ethical, and Social IS	3		
BISM	4200	Systems Analysis and Design	3		
BISM	4400	Current Topics in Information Systems	3		
BISM	4800	Information Systems Project Management	3		
BSBA	3306	Business Law I	3		
BSBA	3310	Business and Economics Statistics	3		
BSBA	2212	Principles of Microeconomics	3		
BSBA	2221	Introduction to Financial Management	3		
BSBA	2204	Principles of Marketing	3		
BSBA	2209	Principles of Management	3		
<b>TOTAL Required Major Courses</b>				<b>63</b>	
<i>Major Electives to be offered – Not required</i>					
BISM	4300	Business Intelligence	3		
BISM	4900	Internship in Information Systems	3		
Minor Electives			N/A		
<b>TOTAL HOURS FOR MAJOR</b>				<b>63</b>	

<b>Required General Studies Courses</b>		
Attribute IA – Critical Analysis		<b>X</b>
	<b>Major Course – BISM 2200</b>	
Attribute IB – Quantitative Literacy		<b>3</b>
	MATH 1112 or higher in IB (required by major)	
Attribute IC – Written Communication		<b>3</b>
	ENGL 1104	
Attribute ID - Teamwork		<b>X</b>
	<b>Major Course – BSBA 2209</b>	
Attribute IE – Information Literacy		<b>3</b>
	ENGL 1108	
Attribute IF – Technology Literacy		<b>3</b>
	BISM 1200	
Attribute IG – Oral Communication		<b>3</b>
	COMM 2202 (preferred) or 2200 or 2201	

Attribute III – Citizenship		3
	<i>Student Choice from Approved Options</i>	
Attribute IV – Ethics		3
	<i>Student Choice from Approved Options</i>	
Attribute V – Health		2
	PHED 1100	
Attribute VI – Interdisciplinary		3
	<i>Student Choice from Approved Options</i>	
Attribute VIIA – Arts		3
	<i>Student Choice from Approved Options</i>	
Attribute VIIB – Humanities		3
	<i>Student Choice from Approved Options</i>	
Attribute VIIC – Social Sciences		3
	BSBA 2211	
Attribute VIID - Natural Science		4
	<i>Student Choice from Approved Options</i>	
Attribute VIII – Cultural Awareness		3
	<i>Student Choice from Approved Options</i>	
Additional General Studies hours		<b>X</b>
	<b>Major Course - BISM 2800</b>	
	<i>Writing Intensive Course</i>	
<b>TOTAL GENERAL STUDIES HOURS</b>		<b>42</b>
<b>TOTAL FREE ELECTIVES</b>		<b>15</b>
<b>TOTAL HOURS</b>		<b>120</b>

**APPENDIX A.2**

**B.S. Degree in Information Systems Management  
Proposed Program**

<b>Required Major Courses</b>			<b>HRS</b>	<b>63</b>	<b>Policy</b>
BSBA	2201	Principles of Accounting I	3		
BSBA	2202	Principles of Accounting II	3		
BISM	2200	Business Information Tools	3		
BISM	2400	Operating Systems Concepts	3		
BISM	2600	Introduction to Networking Administration	3		
BISM	2800	Corporate Communications & Technology	3		
BISM	3000	Business Programming Logic	3		
BISM	3200	Management Information Systems	3		
BISM	3400	Database Design and Development	3		
BISM	3600	E-Commerce and Web Development Strategy	3		
BISM	3800	Object-Oriented Business Applications	3		
BISM	4200	Systems Analysis and Design	3		
BISM	4800	Information Systems Project Management	3		
BSBA	3306	Business Law I	3		
BSBA	3310	Business and Economics Statistics	3		
BSBA	4420	Business Ethics and Corporate Accountability	3		
BSBA	2212	Principles of Microeconomics	3		
BSBA	2221	Introduction to Financial Management	3		
MGMT	3500	Project Management	3		
BSBA	2204	Principles of Marketing	3		
BSBA	2209	Principles of Management	3		
<b>TOTAL Required Major Courses</b>				<b>63</b>	
<i>Major Electives to be offered – Not required</i>					
BISM	4300	Business Intelligence	3		
BISM	4400	Current Topics in Information Systems	3		
BISM	4900	Internship in Information Systems	3		
Minor Electives			N/A		
<b>TOTAL HOURS FOR MAJOR</b>				<b>63</b>	

<b>Required General Studies Courses</b>		
Attribute IA – Critical Analysis		<b>X</b>
	<b>Major Course – BISM 2200</b>	
Attribute IB – Quantitative Literacy		<b>3</b>
	MATH 1112 or higher in IB (required by major)	
Attribute IC – Written Communication		<b>3</b>
	ENGL 1101 (previously ENGL 1104)	
Attribute ID - Teamwork		<b>X</b>
	<b>Major Course – BSBA 2209</b>	
Attribute IE – Information Literacy		<b>3</b>
	ENGL 1102 (previously ENGL 1108)	
Attribute IF – Technology Literacy		<b>3</b>
	BISM 1200	

Attribute IG – Oral Communication		3
	COMM 2202 (preferred) or 2200 or 2201	
Attribute III - Citizenship		3
	<i>Student Choice from Approved Options</i>	
Attribute IV - Ethics		3
	<i>Student Choice from Approved Options</i>	
Attribute V - Health		2
	PHED 1100	
Attribute VI - Interdisciplinary		3
	<i>Student Choice from Approved Options</i>	
Attribute VIIA - Arts		3
	<i>Student Choice from Approved Options</i>	
Attribute VIIB - Humanities		3
	<i>Student Choice from Approved Options</i>	
Attribute VIIC – Social Sciences		3
	BSBA 2211	
Attribute VIID - Natural Science		4
	<i>Student Choice from Approved Options</i>	
Attribute VIII – Cultural Awareness		3
	<i>Student Choice from Approved Options</i>	
Additional General Studies hours		X
	<b>Major Course - BISM 2800</b>	
	<i>Writing Intensive Course</i>	
<b>TOTAL GENERAL STUDIES HOURS</b>		<b>42</b>
<b>TOTAL FREE ELECTIVES</b>		<b>15</b>
<b>TOTAL HOURS</b>		<b>120</b>

**Appendix B**

**(No new courses proposed.)**

**Appendix C**  
**Proposed Information Systems Management Program**  
**Model Schedule**

**Freshman Year**

1<sup>st</sup> Semester

Course	Title	Credit Hours
ENGL 1101	WRITTEN ENGLISH I (fulfills General Studies Written Communication)	3
BISM 1200	INTRODUCTION TO COMPUTING (fulfills General Studies Technology Literacy)	3
BSBA 2211	PRINCIPLES OF MACROECONOMICS (fulfills General Studies Social Sciences)	3
GENERAL STUDIES – Elective from Citizenship*		3
GENERAL STUDIES – Elective from Health & Wellbeing*		2
<b>Total Hours</b>		<b>14</b>

2<sup>nd</sup> Semester

Course	Title	Credit Hours
ENGL 1102	WRITTEN ENGLISH II (fulfills General Studies Information Literacy)	3
MATH 1112	COLLEGE Algebra (fulfills General Studies Quantitative Literacy)	3
BSBA 2212	PRINCIPLES OF MICROECONOMICS	3
COMM 2202*	Intro to Comm In World of Work (fulfills General Studies Oral communication)	3
GENERAL STUDIES – Elective from Arts*		3
<b>Total Hours</b>		<b>15</b>

\*Comm 2202 is recommended for all School of Business students; however, Comm 2200 or Comm 2201 may also be used to satisfy this course requirement.

**Sophomore Year**

1<sup>st</sup> Semester

Course	Title	Credit Hours
BSBA 2201	Principles of Accounting I	3
BSBA 2209	Principles of Management (fulfills General Studies Teamwork)	3
BISM 2200	Business Information Tools (fulfills General Studies Critical Analysis)	3
BISM 2400	Operating Systems Concepts	3
GENERAL STUDIES – Elective from Natural Science*		4
<b>Total Hours</b>		<b>16</b>

2<sup>nd</sup> Semester

Course	Title	Credit Hours
BSBA 2202	Principles of Accounting II	3
BSBA 2204	Principles of Marketing	3
BISM 2600	Introduction to Networking Administration	3
BISM 2800	Corporate Communications and Technology	3
GENERAL STUDIES – Elective from Interdisciplinary & Lifelong Learning*		3
<b>Total Hours</b>		<b>15</b>

## Junior Year

### 1<sup>st</sup> Semester

Course	Title	Credit Hours
BSBA 2221	Intro to Financial Management	3
BISM 3000	Business Programming Logic	3
BISM 3200	Management Information Systems	3
BISM 3400	Database Design and Development	3
GENERAL STUDIES – Elective from Cultural Awareness*		3
<b>Total Hours</b>		<b>15</b>

### 2<sup>nd</sup> Semester

Course	Title	Credit Hours
BSBA 3306	Business Law I	3
BISM 3600	E-commerce & Web Development Strategy	3
BISM 3800	Object-Oriented Business Applications	3
GENERAL STUDIES – Elective from Humanities*		3
Elective		3
<b>Total Hours</b>		<b>15</b>

## Senior Year

### 1<sup>st</sup> Semester

Course	Title	Credit Hours
BSBA 3310	Business & Economic Statistics	3
MGMT 3500	Project Management	3
BSBA 4420	Business Ethics and Corporate Accountability	3
BISM 4200	Systems Analysis & Design	3
Elective		3
<b>Total Hours</b>		<b>15</b>

### 2<sup>nd</sup> Semester

Course	Title	Credit Hours
BISM 4800	Information Systems Project Management	3
GENERAL STUDIES – Elective from Ethics*		3
Elective		3
Elective		3
Elective		3
<b>Total Hours</b>		<b>15</b>

**Total Hours Required** **120**