UNIVERSITY OF MARY WASHINGTON – PROGRAM CHANGE PROPOSAL

Electronically submit this completed form with attachments to the Chair of the College Curriculum Committee.

<table>
<thead>
<tr>
<th>COLLEGE (check one):</th>
<th>Arts and Sciences</th>
<th>Business</th>
<th>X</th>
<th>Education</th>
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Proposal Submitted By: Gail Brooks, Mike Lapke, Mukesh Srivastava  
Date Prepared: 10/26/12

Department /Program:  
College of Business/MSMIS

Note: for any program change entailing the addition any new courses, or revisions to existing courses, separate proposal for those course actions must also be submitted.

**PROPOSAL TO CHANGE EXISTING PROGRAM** (check one of the following)

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<tbody>
<tr>
<td>Revise requirements for existing major</td>
<td>Revise requirements for a concentration within an existing major</td>
<td>Revise requirements for an existing degree program</td>
<td>X</td>
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<tr>
<td>Revise requirements for existing certificate program</td>
<td>Revise requirements for existing minor</td>
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Implementation Date: FALL semester, year: 2013

**REQUIRED ATTACHMENTS FOR CHANGES TO EXISTING PROGRAMS:**

1. **Rationale statement** (Why is this program change needed? What purposes will it serve?)
2. **Impact Statement** (Provide details about the Library, space, budget, technology, and impacts created by this program change. Supporting statements from the Library, IT Department, etc. evaluating the resource impact and feasibility of the program change are required.)
3. **Catalog Copy** (Provide the existing Catalog Description and the complete statement of the proposed new Catalog description that reflects the program changes)

**PROPOSAL TO CREATE PROGRAM NOT REQUIRING STATE ACTION** (check one of the following)

<table>
<thead>
<tr>
<th>New concentration</th>
<th>Name:</th>
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<td>within existing major</td>
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<th>New minor</th>
<th>Name:</th>
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<th>New Major but NOT a new degree*</th>
<th>Name:</th>
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*Use ONLY for interdisciplinary majors that will be grouped as part of the “Special Majors/General Liberal Arts and Sciences” degree (CIP Code 24.0101) or reported as a BLS degree (CIP Code 24.0199)

Implementation Date (semester and year): |

**REQUIRED ATTACHMENTS FOR NEW PROGRAMS NOT REQUIRING STATE APPROVAL:**

1. **Rationale statement** (Why is this additional program needed? What purposes will it serve?)
2. **Impact Statement** (Provide details about the Library, space, budget, technology, and impacts created by this program change. Supporting statements from the Library, IT Department, etc. evaluating the resource impact and feasibility of adding the new program are required.)
3. **Catalog Copy** (Provide the complete Catalog Description for the proposed new program)

Department Chair Approval: Ken Machande  
Date: 11/7/12

CCC Chair Approval: Gail Brooks  
Date: 11/7/12

Dean Approval: Lynne Richardson  
Date: 12/13/12

UCC Chair Approval:  
Date: 

*Provost Approval:  
Date: *

*Required only in cases of proposals for new concentrations, new minors, or new majors that do not involve a new degree
Rationale statement (Why is this program change needed? What purposes will it serve?)
The COB faculty was asked to review the MSMIS program and recommend changes that would align the program better with the new COB mission while maintaining the high quality of the current program. These proposed revisions provide a more streamlined program and reduce the overall number of credits from 36-51 to 30-42. The dependence on MBA courses has been eliminated since many of those courses have been removed from the redesigned MBA program proposal.

Impact Statement (Provide details about the Library, space, budget, technology, and impacts created by this program change. Supporting statements from the Library, IT Department, etc. evaluating the resource impact and feasibility of the program change are required.) Because the number of courses has been reduced and no new courses have been proposed, there should be no impacts created by the proposed program changes.

Catalog Copy (Provide the existing Catalog Description and the complete statement of the proposed new Catalog description that reflects the program changes)

Existing Catalog Copy:

MSMIS Course Requirements (36-51 credits)

Foundation Courses (0-15 credits)
Any or all of the foundation courses may be waived, based on previous course work or professional certifications. Final determination of a waiver is made by the faculty advisor.

- BPST 316 Statistics for Managers (3 credits)
- CIST 299 or 305 or 401 or 406 or equivalent (3 credits)
- CIST 304 or equivalent (3 credits)
- LRSP 311 or 331 or equivalent (3 credits)

And three credits from the following:
- ACCT 201 Accounting for Managers or equivalent (3 credits)
- LRSP 306 Economics for Business or equivalent (3 credits)
- LRSP 412 Marketing for Managers or equivalent (3 credits)
- LRSP 435 Leadership, Innovation, and Creativity or equivalent (3 credits)

Note: Students may complete a maximum of 9 credits in graduate-level courses (including graduate transfer courses) prior to completion of all required foundation credits. Any student who earns a grade below C in a foundation course taken at the University must retake the course and earn a C or higher.

Core Courses (24 credits)
- MBUS 550 Computer-Based Decision Support Systems (3 credits)
- MMIS 500 Management Information Systems (3 credits)
- MMIS 505 Information Systems Analysis and Design (3 credits)
- MMIS 515 Information Technology Project Management (3 credits)
- MMIS 535 Strategic Management of Information Systems and Innovation (3 credits)
- MMIS 540 Computer Information Security (3 credits)
- MMIS 590 MIS Research Project (3 credits)
- MMIS 591 MIS Externship (3 credits)

Elective Courses (12 credits)
- MBUS 523 Marketing Strategy (3 credits)
- MBUS 525 Visionary Leadership (3 credits)
- MBUS 526 Organizational Change and Transformation (3 credits)
- MBUS 537 Contracting for Managers (3 credits)
- MBUS 554 Management Risk Analysis with Computer Simulations (3 credits)
- MBUS 555 Knowledge Management Systems (3 credits)
MMIS 531 Managing and Leading the Information Technology Workforce (3 credits)
MMIS 532 Enterprise Information Systems (3 credits)
MMIS 533 Management of Information Technology Outsourcing (3 credits)
MMIS 534 Business Database Systems (3 credits)
MMIS 541 Network Security and Cryptography (3 credits)
MMIS 542 Security Policy, Planning, and Assurance (3 credits)
MMIS 543 Computer Forensics (3 credits)
MMIS 544 Ethical Hacking and Malware Analysis (3 credits)
MMIS 558 Legal and Regulatory Environments of Technology Management and Emerging Technologies (3 credits)
MMIS 570 Special Topics (1-3 credits)

MSMIS Course groupings
The groupings below are guides that may help students define the electives they wish to take, if they are interested in one particular area. Students are not limited to the courses in one grouping, and are free to select any of the electives listed, presuming prerequisite requirements have been fulfilled.

General Management Information Systems
General Management Information Systems courses are attractive to those who seek a broad-based graduate program in information systems leadership. These courses offer a solid professional core in the functional areas of business, enriched with leading-edge courses that apply to information systems management.

MBUS 523 Marketing Strategy (3 credits)
MBUS 525 Visionary Leadership (3 credits)
MBUS 526 Organizational Change and Transformation (3 credits)
MBUS 537 Contracting for Managers (3 credits)
MBUS 554 Management Risk Analysis with Computer Simulations (3 credits)
MBUS 555 Knowledge Management Systems (3 credits)
MMIS 531 Managing and Leading the Information Technology Workforce (3 credits)
MMIS 532 Enterprise Information Systems (3 credits)
MMIS 533 Management of Information Technology Outsourcing (3 credits)
MMIS 534 Business Database Systems (3 credits)
MMIS 558 Legal and Regulatory Environments of Technology Management and Emerging Technologies (3 credits)
MMIS 570 Special Topics (1-3 credits)

Information ASSURANCE AND Security
Courses in information assurance and security provide opportunities for both applied and scholarly work in computer and data security using a graduate-level perspective of best practices in technical and managerial skills that promote information security in a variety of organizations. Courses also cover content related to computer security certification programs, including those required by Homeland Security Presidential Directive 12 (HSPD-12) and Department of Defense Directive 8570.1.

MMIS 541 Network Security and Cryptography (3 credits)
MMIS 542 Security Policy, Planning, and Assurance (3 credits)
MMIS 543 Computer Forensics (3 credits)
MMIS 544 Ethical Hacking and Malware Analysis (3 credits)
Proposed Catalog Copy:

MSMIS Course Requirements (30-42 credits)

Prerequisite Courses (0-12 credits)
Any or all of the prerequisite courses may be waived, based on previous course work or professional certifications. Final determination of a waiver is made by the faculty advisor.

1. CPSC 110, CIST 304 or equivalent
2. BUAD 131 or LRSP 201 or equivalent
3. MATH 200, LRSP 316 or equivalent
4. MMIS 500 Management Information Systems or equivalent

Note: Students may complete a maximum of 9 credits in graduate-level courses (including a maximum of 6 graduate transfer credits) prior to completion of all required prerequisite credits, except MMIS 500. MMIS 500 must be successfully completed or waived before taking any other graduate level course.

Any student who earns a grade below C in one of the prerequisite courses above must retake the course and earn a C or higher.

Core Courses (18 credits)
- MMIS 505 Information Systems Analysis and Design (3 credits) Prerequisites: CPSC 110, CIST 304 or equivalent and MMIS 500 or equivalent.
- MMIS 515 Information Systems Project Management (3 credits) Prerequisites: BUAD 131 or equivalent and MMIS 500 or equivalent.
- MMIS 534 Business Database Systems (3 credits) Prerequisites: MMIS 500 or equivalent and CPSC 110, CIST 304 or equivalent
- MMIS 540 Information Systems Security (3 credits) Prerequisite: MMIS 500 or equivalent
- MMIS 554 Management Risk Analysis (3 credits) Prerequisite: MMIS 500 or equivalent and MATH 200, LRSP 316 or equivalent
- Select one of the following (3 credits)
  - MMIS 590 MIS Research Project (3 credits)
  - MMIS 591 MIS Externship (3 credits)

Professional Enhancement Areas (12 credits from the following courses)

Information Assurance and Security
- MMIS 541 Network Security and Cryptography (3 credits) Prerequisites: MMIS 540 or equivalent
- MMIS 542 Security Policy, Planning, and Assurance (3 credits) Prerequisites: MMIS 540 or equivalent
- MMIS 543 Computer Forensics (3 credits) Prerequisites: MMIS 540 or equivalent
- MMIS 544 Ethical Hacking and Malware Analysis (3 credits) Prerequisites: MMIS 540 or equivalent

Information Management
- MMIS 531 Managing and Leading the Information Technology Workforce Prerequisite: MMIS 500 or equivalent
- MMIS 532 Enterprise Information Systems (3 credits) Prerequisite: MMIS 500 or equivalent
- MMIS 535 Strategic Management of Information Systems and Innovation (3 credits) Prerequisite: MMIS 500 or equivalent
- MMIS 555 Knowledge Management Systems (3 credits) Prerequisite: MMIS 500 or equivalent

MMIS 570 Special Topics Prerequisite: MMIS 500 or equivalent