



Proposal for a Revised Degree Program: Departmental Approvals

Degree Program Revision (include name): MS IS College: YWCC Dept: Informatics


Date Proposed: 10/26/2017

Departmental Approval (include name) and Date: Y.F. Brook Wu, October 26, 2017

Dean's Approval and Date: BC 11/2/17

Date to be presented to the Committee on Graduate Education: _____

Additional Approvals and Dates (if any): (see below) _____

Department Chair	Signature and Date
Y.F. Brook Wu	 October 26, 2017

When will the revision be offered?

Spring 2018

Summer 20__

Fall 20__

Master of Science in Information Systems

Professional Management Option

The objective of the MS IS – Professional Management option is to create leaders with strong communication and management skills in addition to solid technical knowledge in data analytics, and the analysis, design, and implementation of information systems. This option is designed for working professionals or students who already have acquired some professional experience.

Overview

- 36 credits are required.
- All 7 MSIS core courses (21 credits) are required.
- Experiential Aspect: A one-semester IS Capstone Project (IS 700B - 3 credits), two-semester MS Thesis (IS 701 – 6 credits), or Co-Op experience (not counting towards degree credits) is required.
- Electives: To meet the 36-credit requirement, students will take 9-15 credits of electives, where each elective course is 3 credits. The electives required will depend on which Experiential Aspect is chosen.
 - Students who take the IS Capstone Project (IS 700B - 3 credits) must take 4 elective courses: 1 course from the list of IS electives, 1-2 courses from the list of PTC electives and 1-2 courses from the list of Management electives.
 - Students who take the MS Thesis (IS 701 – 6 credits) must take 3 elective courses: 1-2 courses from the list of PTC electives and 3-6 credits from the list of Management electives.
 - Students who take the Co-Op experience (IS 590) must take 5 elective courses: 1-2 courses from the list of IS electives, 1-3 courses from the list of PTC electives and 1-3 courses from the list of Management electives.

MS IS Core Course Requirements		21 credits
<u>IS 601</u>	Web Systems Development	3
<u>IS 663</u>	System Analysis and Design	3
<u>IS 631</u>	Enterprise Database Management	3
<u>IS 661</u>	User Experience Design	3
<u>IS 665</u>	Data Analytics for Info System	3
<u>IS 684</u>	Business Process Innovation	3
Select one of the following Analytics courses:		3
<u>IS 634</u>	Information Retrieval	

<u>IS 687</u>	Transaction Mining and Fraud Detection
<u>IS 688</u>	Web Mining

IS Experiential Aspect	0-6 credits
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Select one of the following Capstone or Co-op options. The Co-op does not count towards the degree credits. All Experiential options will be undertaken in collaboration with industry, and evaluated by a faculty member.

<u>IS 700B</u>	Masters Project	3
<u>IS 701</u>	Masters Thesis	6
IS 590	Graduate Co-op Work Experience I	0

Information Systems Electives	0-6 elective credits
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Students who take the IS Capstone Project (IS 700B) choose 1 IS elective.
 Students who take the MS Thesis (IS 701) choose no IS electives.
 Students who take the Co-Op experience (IS 590) choose 1-2 IS electives.

<u>IS 634</u>	Information Retrieval
<u>IS 664</u>	Customer Discovery
<u>IS 676</u>	Requirements Engineering
<u>IS 677</u>	Information System Principles
<u>IS 678</u>	IT Service Management
<u>IS 680</u>	Information Systems Auditing
<u>IS 681</u>	Computer Security Auditing
<u>IS 682</u>	Forensic Auditing for Computing Security
<u>IS 685</u>	Enterprise Architecture and Integration
<u>IS 686</u>	Pervasive Computing: An HCI Perspective
<u>IS 687</u>	Transaction Mining and Fraud Detection
<u>IS 688</u>	Web Mining
<u>IS 735</u>	Social Media

PTC (Professional and Technical Communications) Electives**3-9 elective credits**

Students who take the IS Capstone Project (IS 700B) choose 1-2 PTC electives.
Students who take the MS Thesis (IS 701) choose 1-2 PTC electives.
Students who take the Co-Op experience (IS 590) choose 1-3 PTC electives.

[PTC 601](#) Advanced Professional and Technical Communication

[PTC 605](#) Elements of Visual Design

[PTC 606](#) Advanced Information Design

[PTC 610](#) Research Methods for Information Design

[PTC 620](#) Proposal Writing

[PTC 622](#) Working in Teams: Collaborative and Interpersonal Communications

[PTC 624](#) Professional and Technical Editing

[PTC 628](#) Analyzing Social Networks

[PTC 629](#) Theory and Practice of Social Media

[PTC 632](#) Content Management and Information Architecture

[PTC 6XX](#) User Experience Design

Management Electives**3-9 elective credits**

Students who take the IS Capstone Project choose 1-2 Management electives.
Students who take the MS Thesis (IS 701) choose 1-2 Management electives.
Students who take the Co-Op experience (IS 590) choose 1-3 Management electives.

[ACCT 615](#) Management Accounting

[EM 636](#) Project Management

[FIN 600](#) Corporate Finance I

[HRM 601](#) Organizational Behavior

[MIS 648](#) Decision Support Systems for Managers

[MIS 680](#) Management Science

<u>MGMT 620</u>	Management of Technology
<u>MGMT 630</u>	Decision Analysis
<u>MGMT 641</u>	Global Project Management
<u>MGMT 650</u>	Knowledge Management
<u>MGMT 682</u>	Business Research Methods I
<u>MGMT 685</u>	Operations Research and Decision Making
<u>MGMT 688</u>	Information Technology, Business and the Law
<u>MGMT 691</u>	Legal and Ethical Issues
<u>MGMT 710</u>	Forecasting Methods for Business Decisions
<u>MRKT 620</u>	Competing in Global Markets
MRKT 636	Design and Development of High Technology Products
<u>MRKT 645</u>	Internet Marketing Strategy