**MSMIS Program (12-15 courses)**

**Foundational Requirements (5 courses/15 hours)**

The following courses must be completed with a grade of B or better before taking core or elective courses. These courses may be waived with similar undergraduate coursework where a grade of B or better was earned.

Students required to take four or more of the following foundational courses may waive up to two elective courses with approval from the MSMIS graduate program coordinator.

CSC 500 Foundational Concepts in Computer Science

ACC 502 Managerial Accounting

ECN 500 Principles of Economics

FIN 550 Financial Management

BUS 541 Business Statistics

**MIS Core (9 courses/27 hours):**

\* Prerequisite courses are listed in parenthesis following each course.

CSC 553 Systems Analysis and Design (CSC 161 or CSC 500)

CSC 560 Database Systems Management (CSC 161 or CSC 500)

CSC 536 Human Computer Interaction (CSC 161 or CSC 500)

MIS 510 Information Management (none)

MGT 621 Organizational Behavior (none)

MGT 5XX Project Management (proposed course, replaces CSC 555 Project Management)

MGT 675 Strategic Management (FIN 550, second year graduate student)

CSC/MIS 6XX Capstone Seminar (pending APPC approval this fall term)

Interdisciplinary support course

**MIS Electives (1-3 courses/3-9 hours):**

Students choose courses in the following two areas in consultation with the program coordinator for the MSMIS program. At most two courses may be waived if the student has completed at least four foundational courses at the graduate level and earned a B or better.

Management Perspective and Analytical Business Courses:

ACC 692 Special Topics (consent of instructor)

BUS 546 Operations Research (BUS 541)

BUS 641 Econometric Applications for Business (BUS 541 or equivalent)

MGT 591 Quality Management (none)

MGT 5XX Business Dispute Resolution (pending APPC approval this fall term)

MGT 620 Operations Management (BUS 546)

MGT 623 Human Resources Management (none)

MGT 645 Organizational Leadership and Group Performance (none)

MGT 682 International Management (ACC 501, ECN 500)

MGT 683 Innovation and Organizational Change (MGT 645, MGT 675)

Computer Science Courses:

CSC 515 Web Programming (CSC 161 or CSC 500)

CSC 520 Operating Systems (CSC 220 or CSC 500)

CSC 564 Data Mining (CSC 560)

CSC 569 Computer Networks (CSC 220 or CSC 500)

CSC 579 Computer and Network Security (CSC 520 and CSC 569)

CSC 615 XML Web Services (CSC 515)

CSC 662 Database Programming (CSC 560)

**Comparison of Current Curriculum to New Curriculum**

The following table compares the number of courses students would need to complete in the proposed curriculum compared to the current curriculum for four groups of students.

CSC undergraduate – assumes a standard undergraduate curriculum that includes Java

Business undergraduate – assumes a standard undergraduate curriculum that includes managerial accounting, economics, financial management and business statistics.

MIS undergraduate – assumes a standard undergraduate curriculum that includes programming competency in Java and managerial accounting, economics, financial management and business statistics.

Other undergraduate – assumes student has not taken undergraduate courses in any of the foundational areas.

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| --- | --- |
| **Current Curriculum** | **Proposed Curriculum** |
| CSC undergraduate with no quantitative business  13 courses | CSC undergraduate with no quantitative business  14 courses (4 foundational, 9 core, 1 elective) |
| Business undergraduate with no computer science  13 courses + 1 prerequisite | Business undergraduate with no computer science  13 courses (1 foundational, 9 core, 3 electives) |
| MIS undergraduate  13 courses | MIS undergraduate  12 courses (0 foundational, 9 core, 3 electives) |
| Other undergraduate  13 courses + 1 prerequisite | Other undergraduate  15 courses (5 foundational, 9 core, 1 elective) |