

CERTIFICATE IN MIS FOR BUSINESS MAJORS

[Effective Spring 2011]

The Certificate in MIS is designed to provide students enrolled in the School of Business a strong foundation in the management of information for business applications. The Certificate in MIS is only available to non-MIS majors.

Requirements:

- Three courses from the following list of MIS courses (“eligible courses”):
 - OPIM 3220. (3 credits) Business Software Development
 - OPIM 3221. (3 credits) Business Database Systems
 - OPIM 3222. (3 credits) Network Design and Applications
 - OPIM 3212. (3 credits) Advanced Information Technologies
 - OPIM 3777. (3 credits) IT Security, Governance and Audit
 - OPIM 3801. (3 credits) Project Management
 - OPIM 4895. (3 credits) Special Topics (OPIM 4895 may be taken multiple times as long as Subtitle / topic coverage is different each time - see partial list below.)
- A grade of “C” (2.0) or better in each course to be counted toward the certificate (“qualifying grade”).

Additional details:

- The Plan of Study for the Certificate in MIS must be submitted during the student's last semester when the student is in the process of completing or has completed the Certificate. There is no declaration of the Certificate prior to a student's last semester. However, you are strongly encouraged to indicate your intent to pursue the Certificate by filling in the “MIS Certificate Application Form” and submitting it to Gail Zaicek.
- Since registration in business courses appropriate for the Certificate is on a space available basis, the School of Business cannot guarantee completion of the Certificate.
- This Certificate is intended for students who are enrolled in the School of Business and satisfy the requirements of the School of Business Mobile Computing program.
- Students who are not enrolled in the School of Business and / or do not satisfy the requirements of the Mobile Computing program should obtain permission from faculty teaching individual courses that count toward the Certificate (and obtain permission number from Gail Zaicek). If such students complete three eligible courses and obtain a qualifying grade (please see “requirements” above), they too will be eligible for the Certificate.
- None of the credits used to satisfy requirements for the Certificate may be from transfer credits of courses equivalent to University of Connecticut courses, UConn Study Abroad, or National Student Exchange courses.
- Credits from internships cannot be used to satisfy requirements for the Certificate.
- A student may be credited with either a Major in MIS or a Certificate in MIS but not both. The Certificate in MIS is only available to non-MIS majors.

PLAN OF STUDY – CERTIFICATE IN MIS

DIRECTIONS: Complete the following information and turn in 2 copies of this sheet, with a copy of your UNOFFICIAL TRANSCRIPT, highlighting the business courses you are using to meet the Certificate, attached. Submit your plan of study sheet with attached transcripts during the first four weeks of the semester in which you intend to graduate.

Name _____ Major _____ Anticipated Graduation Date ____/____/____
Mo / Yr

Student ID # _____ Local Address _____ Phone (____) _____

Student Signature _____ Date _____

Business courses being used to complete the Certificate - please list them below:

Grade	Department	No.	Course Title
_____	OPIM	_____	_____
_____	OPIM	_____	_____
_____	OPIM	_____	_____

Bring to (or Mail to): Gail Zaicek, OPIM Department, 3rd floor,
School of Business 2100 Hillside Road, Unit 1041, Storrs, CT 06269-1041

For School of Business Use Only

Signature of Department Head, OPIM Dept., School of Business

Date

Below is a list of upper division MIS courses that have been offered. Given the exceptionally dynamic nature of the MIS field, we frequently design and deliver new offerings. Thus interested students should understand that, in addition to the offerings listed below, they will be able to select from new options as they appear. Please check studentadmin site and the OPIM web page for updates.

OPIM 3220: Business Software Development. *Three credits. Prerequisites: Open to Juniors or Higher.* The development of computer software for business information processing. Topics include flowcharting, pseudocode, programming with a business oriented computer language, file processing concepts, and on-line and batch processing.

OPIM 3221: Business Database Systems. *Three credits. Prerequisites: Open to Juniors or Higher.* Introduces market-leading techniques for transaction processes as well as decision making and business intelligence, that help to identify and manage key data from business processes. Provides the essential tools required for further data mining applications. Combines lecture, class discussion and hands-on computer work in a business-oriented environment.

OPIM 3222: Network Design and Applications. *Three credits. Prerequisites: Open to Juniors or Higher.* Principles and applications of business telecommunications emphasized. Course covers important network systems as well as crucial techniques in building these systems. Students participate in network design and implementation project.

OPIM 3212. Advanced Information Technologies. *Three credits. Prerequisite: OPIM 3103C, 3220. Open to Juniors or higher.* Deepens knowledge of application development tools for the design of decision oriented information systems. Emphasis will be placed on emerging tools and techniques relevant for modern organizational information needs.

OPIM 3777 (formerly OPIM 4895): IT Security, Governance, and Audit. *Three credits. Prerequisites: OPIM 3103. Open to Juniors or Higher.* Topics covered include IS audit processes, IT Governance, Audit of Revenue and Expenditure Cycle Applications, Protection of information assets such as Accounting, Financial and Marketing information, Business continuity and disaster recovery, Legal aspects of computer security, Sarbanes-Oxley (SOX) compliance and implications for business and IT, Computer forensics.

OPIM 3801 (formerly OPIM 4895): Project Management. Projects make up approximately 20% of the global economy. Most professionals find themselves managing projects at some point in their careers. This course will provide an introduction to the Project Management Institute (PMI) framework for best practice in managing a project. It will help in understanding the tools and techniques used in managing the different knowledge areas and the different phases of a project.

In addition, it will qualify as the education requirement for the PMI, PMP or CAPM certification and provide an introduction to Microsoft Project software.

OPIM 4895* : Special Topics - Spreadsheet Modeling for Business Management. *Three credits. Prerequisites: OPIM 3103. Open to Juniors or Higher.* The course will cover development of spreadsheet models for applications such as Cash-flow Analysis, Financial Portfolio Management, Demand Forecasting, Inventory Management, Equipment replacement analysis, Project Management, Purchase Order Processing, Goal programming. Coverage includes general modeling tools, including Solver, Simulation, Analysis ToolPak, Creating Macros, Linking Macros to a Database, Linking Macros to Spreadsheet Buttons.

OPIM 4895* : Special Topics - Data Mining and Business Intelligence. *Three credits. Prerequisites: OPIM 3103. Open to Juniors or Higher.* This course will cover data mining for business intelligence. Data mining refers to extracting or “mining” knowledge from large amounts of data. It consists of several techniques that aim at discovering rich and interesting patterns that can bring value to organizations. Examples of such patterns include fraud detection, consumer behavior, and credit approval. The course will cover the most important data mining techniques --- classification, clustering, association rule mining, visualization, prediction --- through a hands-on approach using SAS JMP and other specialized software, such as the open-source WEKA software.

OPIM 4895* : Special Topics - Online web-based business application design and development. *Three credits. Prerequisites: OPIM 3103. Strongly recommended prior coursework: OPIM 3221 and OPIM 3220 or equivalent.* This course introduces students to the technical concepts and skills involved in the creation of state-of-the-art websites supported by online databases. Business implications and issues of online applications will also be discussed. Hands-on topics will include (i) User interface design using HTML, CSS, and JavaScript; (ii) Server side programming of business logic using Ruby on Rails; and (iii) Connecting to emerging platform - APIs such as Facebook, Twitter and LinkedIn.

* Note that course offerings for Special Topics Courses (OPIM 4895) can vary from semester to semester. Please check studentadmin for current listings.