

M.S. IN COMPUTER SCIENCE WITH A *MINOR* IN BUSINESS WORKSHEET

Name: _____ Z#: _____ Advisor: _____

Date of Admission: _____ GPA: _____

Prerequisites

List deficiency courses assigned by the Admission Committee, if applicable:

Grade	Semester	Course Number/Name

Degree Requirements

The minor in Business is available to students pursuing the MS in Computer Science non-thesis option. The program requires a minimum of 36 credits. Students must take 3 core courses, 4 CEECS elective courses, and 5 Business minor courses.

To satisfy the core courses requirement, students must take one course from each of the following three groups: (I) Theory, (II) Software Development, and (III) Computer Systems. The courses in each group are listed below.

The CEECS Department offers a rich and diverse selection of elective courses in traditional areas of computer science and in the areas of research of the faculty including software engineering, machine learning, artificial intelligence, data science, advanced programming methodologies, database systems, computer networks, wireless networking, cybersecurity, cryptography, IoT and smart systems, bioinformatics, multimedia systems, mobile application development, and healthcare informatics. Visit the department course schedule for a comprehensive list of elective courses.

(I) Theory (Minimum of one course)

Grade	Semester	Course Number/Name
		COT 6200 Theory and Philosophy of Computation
		COT 6405 Analysis of Algorithms
		COT 6446 Randomized Algorithms
		EEL 6532/ COT 6930 Information Theory
		MAP 6264 Queueing Theory

(II) Software Development (Minimum of one course)

Grade	Semester	Course Number/Name
		CAP 6018 Multimedia Programming
		CEN 5035 Software Engineering
		CEN 6027 Software Maintenance & Evolution
		CEN 6075 Software Requirements Engineering

		CEN 6076 Software Testing
		CEN 6085 Software Architecture & Patterns
		COP 5339 Object- Oriented Software Design

(III) Computer Systems (Minimum of one course)

Grade	Semester	Course Number/Name
		CAP 5615 Introduction to Neural Networks
		CAP 6010 Multimedia Systems
		CAP 6411 Foundations of Vision
		CAP 6673 Data Mining & Machine Learning
		CAP 6778 Advanced Data Mining & Machine Learning
		CDA 6122 Evaluation of Parallel & Distributed Systems
		CEN 6405 Computer Performance Modeling
		CIS 6370 Computer Data Security
		CNT 6516 Advanced Computer Networking
		CNT 6517 Mobile Computing
		CNT 6528 Vehicular Networks
		CNT 6885 Video Communication
		COP 6731 Theory & Implementation of Database Systems
		EEL 6591 Wireless Networks

CEECs Elective Courses

Grade	Semester	Course Number/Name

Business Minor Courses (5 courses)

Grade	Semester	Course Number/Name
		ACG 6027 Financial Accounting Concepts
		FIN 6406 Financial Management
		MAR 6055 Marketing Functions and Processes
		MAN 6937 Global Environment of Management OR
		MAN 6245 Organizational Behavior
		ISM 6026 Management of Information Systems & Technology OR
		QMB 6603 Data Analysis for Managers

Student Signature: _____ Date: _____

SUMMARY OF RULES FOR MS (COMPUTER SCIENCE WITH A *MINOR* IN BUSINESS) DEGREE

Minimum Degree Requirements (36 credits)

1. Requires 36 credits of approved coursework with the following constraints:
 - a. A minimum of 3 credits must be selected from each of the three groups: (I) Theory, (II) Software Development, and (III) Computer Systems.
 - b. A maximum of 3 credits of Directed Independent Study may be used to satisfy the coursework.
 - c. Requires 15 credits of Business minor courses
2. At least one-half of the credits must be at the 6000 level or above.
3. Must have a GPA of 3.0 (out of 4.0) or better.
4. All courses in the degree program must be completed with a grade of "C" or better.

Admission to Candidacy/Online Plan of Study

Students must apply for candidacy as soon as they are eligible. Students should prepare, in consultation with a graduate advisor, an **Online Plan of Study** i.e. the list of courses, for completing their degree requirements. All courses must be approved by the student's advisor.

A student is eligible to apply for candidacy when:

1. A minimum of 9 credit hours as a graduate student have been completed.
2. A minimum of 3.0 GPA in all courses attempted as a graduate student has been maintained.

Normally no more than 15 credit hours of work completed before submitting your Plan of Study will be accepted toward degree program. Students working toward the MS (thesis option) degree may not register for thesis until their Plan of Study has been approved.