# FAU DEPARTMENT OF COMPUTER & ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

College of Engineering & Computer Science
Florida Atlantic University

## M.S. IN COMPUTER ENGINEERING WORKSHEET

Name: _____ Z#:_____ Advisor: _____

Date of Admission: _____ Undergraduate Institution/Year: _____

GPA: _____ Major: _____ GRE/Year: _____

### Prerequisites

| Course No. | Course Title | Actual Course Title if Not Taken At FAU | Where | Grade |
|---|---|---|---|---|
| CDA 4150 | Computer Design **OR** | | | |
| CDA 4102 | Structured Computer Architecture **OR** | | | |
| CDA 4204 | CAD-Based Computer Design | | | |
| CDA 3331C | Intro to Microprocessor Systems | | | |
| EEL 3300 | Intro to Electronics **OR** | | | |
| CDA 4210 | Intro to VLSI | | | |
| STA 4821 | Stochastic Models (Probability & Statistics) | | | |
| COP 3530 | Data Structures & Algorithm Analysis | | | |
| MAC 2311 & 2312 | Calculus with Analytic Geometry I & II **OR** | | | |
| MAC 2253 & 2254 | Calculus for Engineers I & II | | | |

A minimum of 3-credit hours must be selected from each of the three groups below: (I) Computer Architecture & Design, (II) Software Development and (III) Computer Systems. These three groups include the following courses:

### (I) Computer Architecture & Design

| Grade | Semester | Course Number/Name |
|---|---|---|
| | | CDA 6155  Advanced Computer Architecture |
| | | CDA 6316  Embedded System Design 1 |
| | | CDA 6132  Multiprocessor Architecture |
| | | CDA 6214  Structured VLSI Design |

### (II) Software Development

| Grade | Semester | Course Number/Name |
|---|---|---|
| | | COP 5339  Object- Oriented Software Design |
| | | CEN 5035  Software Engineering |
| | | COT 5310  Programming Languages |
| | | COP 6618  Concurrent Programming |
| | | CEN 6076  Software Testing |
| | | COP 5595  Component Programming with .NET |
| | | CEN 6027  Software Maintenance & Evolution |
| | | CAP 6018  Multimedia Programming |
| | | CEN 6075  Software Requirements Engineering |
| | | CEN 6085  Software Architecture & Patterns |

## (III) Computer Systems

| Grade | Semester | Course Number/Name |
|---|---|---|
| | | CEN 6405  Computer Performance Modeling |
| | | CIS 6370    Computer Data Security |
| | | COP 6731    Theory & Implementation of Database Systems |
| | | CNT 6517    Mobile Computing |
| | | CAP 6673    Data Mining & Machine Learning |
| | | CAP 6010    Multimedia Systems |
| | | CDA 6122    Evaluation of Parallel & Distributed Systems |
| | | CAP 5615    Introduction to Neural Networks |
| | | EEL 6591    Wireless Networks |
| | | CAP 6678    Advanced Data Mining & Machine Learning |
| | | CNT 6885    Video Communication |
| | | CAP 6411    Foundations of Vision |

## Electives

| Grade | Semester | Course Number/Name |
|---|---|---|
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## THESIS OPTION (30 credits)

ECM 6971 _____ (6 Thesis hours)
Total: 24 credit hours _____

## NON-THESIS OPTION (33 credits)

Total: 33 credit hours _____

GPA (at least 3.0) _____

## Advisor Signature: _____ Date: _____

# SUMMARY OF RULES FOR MS (COMPUTER ENGINEERING) DEGREES

## Minimum Degree Requirements

- Prerequisites:  all courses must have a grade of "C" or better

- A minimum of 9 credit hours must be selected from the above 3 groups ( at least 1 course from each group)

- At least 18 credits of 6000 level courses

- At most 3 credits of directed independent study (DIS)

- No course more than ten years old

- At most 3 credits of 4000 level courses with the consent of advisor

- All courses must have a grade of "C" or better

- Overall graduate GPA of 3.0 or better

- No more than 6 credits transferred from other institutions


## Thesis Committee (for Thesis Option)

- Composed of at least three faculty members

- At least two members from CEECS Department

- Chair or co-chair from the CEECS Department


## Admission to Candidacy

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.

## Additional Comments or Information

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