

**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 4102	Structured Computer Architecture <b>OR</b>			
CDA 4204	CAD-Based Computer Design			
CDA 3331C	Intro to Microprocessor Systems			
EEE 3300	Intro to Electronics <b>OR</b>			
CDA 4210	Introduction to VLSI			
STA 4821	Stochastic Models for Computer Science			
COP 3530	Data Structures & Algorithm Analysis			
MAC 2311	Calculus with Analytic Geometry I			
MAC 2312	Calculus with Analytic Geometry 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 (Minimum of one course)**

Grade	Semester	Course Number/Name
		CDA 6132 Multiprocessor Architecture
		CDA 6155 Advanced Computer Architecture
		CDA 6214 Structured VLSI Design
		CDA 6316 Embedded System Design 1
		CNT 6108 Embedded Networked Sensor Systems

**(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 or CEN 6930/ Wireless Networks

**Additional Courses**

Grade	Semester	Course Number/Name
		CEN 5931 Special Topics in Computer Engineering
		CEN 6930 Topics in Computer Engineering

**Thesis Option:**

Grade	Semester	Course Number/Name
		ECM 6971 Master's Thesis Computer Engineering (6 credits)
		COT 6905 Directed Independent Study (maximum 3 credits)

**Advisor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_

## SUMMARY OF RULES FOR MS (COMPUTER ENGINEERING) DEGREE

### Minimum Degree Requirements:

#### Master of Science with Major in Computer Engineering, Thesis Option (30 credits)

1. Requires 6 credits of orally defended written thesis.
2. Requires 24 credits of approved coursework with the following constraints:
  - a. A minimum of 3 credits must be selected from each of the three groups listed.
  - b. A minimum of 18 credits of 6000-level courses must be completed.
  - c. No more than 3 credits of directed independent study may be taken
  - d. No course can be counted toward the degree that is more than 10 years old at the time the degree is awarded.
  - e. No 4000-level course is allowed toward the degree. Courses taken to make up for the deficiencies will not be counted toward the degree.
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.

#### Thesis Committee (for Thesis Option)

- Composed of at least three faculty members
- At least two members from CEECS Department
- Chair from the CEECS Department

#### Master of Science with Major in Computer Engineering, Non-Thesis Option (33 credits)

1. Requires 33 credits of approved coursework with the following constraints:
  - a. A minimum of 3 credits must be selected from each of the three groups listed in Option A.
  - b. A minimum of 18 credits of 6000-level courses must be completed.
  - c. No more than 3 credits of directed independent study may be taken.
  - d. No course can be counted toward the degree that is more than 10 years old at the time the degree is awarded.
2. Must have a GPA of 3.0 (out of 4.0) or better.
3. 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.