

**M.S. IN ELECTRICAL ENGINEERING WORKSHEET**

Name: \_\_\_\_\_ Z#: \_\_\_\_\_ Advisor: \_\_\_\_\_

Date of Admission: \_\_\_\_\_ Undergraduate Institution/Year: \_\_\_\_\_

GPA: \_\_\_\_\_ Major: \_\_\_\_\_ GRE/Year: \_\_\_\_\_

**DEFICIENCY REQUIREMENTS:**

Laboratory 1 is mandatory. In addition need to satisfy at least four more courses from the menu below.

Course No.	Course Title	Actual Course Title if Not Taken at FAU	Where	Grade
CDA 3331C	Intro to Microprocessor Systems			
EEL 3470	Electromagnetic Fields and Waves			
EEE 4361	Electronics 2			
EEL 4512	Communications Systems <b>OR</b>			
EEL 4652	Control Systems 1			
EEL 4656	Analysis of Linear Systems			
EEL 3118L	Laboratory 1 ( <b>Mandatory</b> )			

**GRADUATE MATH REQUIREMENT (3 credits):**

Grade	Semester	Course Number/Name
		EEE 5502 Digital Processing of Signals
		EEL 5613 Modern Control
		EEL 5654 Controls II
		EEL 6482 Electromagnetic Theory 1
		EEL 6537 Detection Theory
		EEL 6935 Estimation Theory
		EOC 5172 Mathematical Methods in Ocean Engineering 1
		ISC 5451 Fractals and Chaos in the Life Sciences
		MAP 6264 Queueing Theory
		Any <b>GRADUATE LEVEL</b> course with a Math prefix

**ELECTRICAL ENGINEERING GRADUATE COURSES:**

Grade	Semester	Course Number/Name
		CDA 6214 Structured VLSI Design 1
		EEE 5321 CMOS Amplifiers
		EEE 5371 High Frequency Amplifiers
		EEE 5502 Digital Processing of Signals
		EEE 5557 Introduction to Radar Systems
		EEE 6323 RF CMOS VLSI Devices for Wireless Communications
		EEE 6374 RF Devices and Circuits
		EEE 6379 RF-Air Interface and Antennas in Wireless Communications
		EEE 6504 Adaptive Signal Processing
		EEE 6508 Advanced Signal Processing
		EEE 6585 Digital Processing Of Speech Signals
		EEL 5437 Microwave Engineering

	EEL 5500	Digital Communications Systems
	EEL 5613	Modern Control
	EEL 5654	Control Systems 2
	EEL 5661	Robotic Applications
	EEL 5934	Special Topics in Electrical Engineering
	EEL 6449	Fourier Optics and Holography
	EEL 6482	Electromagnetic Theory 1
	EEL 6504	Digital Communications 2
	EEL 6509	Digital Satellite Communication
	EEL 6532	Information Theory
	EEL 6537	Detection Theory
	EEL 6563	Fiber Optic Communication
	EEL 6593	Mobile Communication
	EEL 6597	Wireless Personal Communication Systems
	EEL 6621	Nonlinear Control Systems Engineering
	EEL 6682	Intelligent Control
	EEL 6819	Neural Complex and Artificial Neural Networks
	EEL 6905	Directed Independent Study <b>(Mandatory for all Non-Thesis students)</b>
	TCN 6120	Next Generation Telecommunications
	TCN 6122	Local Access & Internet Telecommunication Engineering

**ELECTIVES:** Any other graduate courses taught by CEECS faculty (such as Bioengineering BME courses, or other graduate courses taught in the College of Engineering & Computer Science). Restrictions: 6 credits for non-thesis students, 3 credits for thesis students.

Grade	Semester	Course Number/Name

**Other Requirements:**

**RESEARCH PORTFOLIO**

1. All students must maintain a departmental online Research Portfolio, in which they place files such as MS Thesis copy, papers, technical reports, design-oriented homework assignments and likewise material. The Research Portfolio will be inspected by the Graduate Advisor before graduation.
2. Non-thesis students must take 3 credits of EEL 6905 Directed Independent Study, intended as a one semester mini-research project done under the guidance of one of the Engineering faculty. The research must produce, at the least, a technical report that should be placed in the student’s online research portfolio.

Research-Oriented DIS: Semester Taken \_\_\_\_\_ Research Advisor \_\_\_\_\_  
 Research Portfolio: \_\_\_\_\_ Inspected by: \_\_\_\_\_

GPA (at least 3.0) \_\_\_\_\_

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

**SUMMARY OF MS-EEL DEGREE REQUIREMENTS**

## Minimum Degree Requirements:

### Master of Science Degree Thesis Option (30 credits)

- Requires 6 credits of orally defended thesis (EEL 6971)
- Requires 24 credits of approved course work (5000 and 6000 level) with the following constraints:
  - **Minimum of 18 credits at the 6000 level**
  - Minimum of 12 credits in EE courses
  - A 3-credit graduate math course
  - *Note: No more than 3 credits of Directed Independent Study (DIS) (EEL 6905)*
  - Completion of Research Portfolio

### Master of Science Degree Non-Thesis Option (33 credits)

- **Minimum of 18 credits at the 6000 level**
- A 3-credit graduate math course.
- A minimum of 18 credits must be completed in EE courses.
- *Note: No more than 3 credits of Directed Independent Study (DIS) (EEL 6905)*  
(3 credits of EEL 6905/Directed Independent Study must be one semester research with a CEECS faculty member done no earlier than two semesters prior to graduation). EEL 6905/ Directed Independent Study is mandatory for all non-thesis students. Course should be taken no earlier than two semesters before graduation.
- Completion of Research Portfolio.

### 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, the 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 (online plan of study) 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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