FLORIDA ATLANTIC UNIVERSITY

Department of Electrical Engineering and Computer Science
College of Engineering & Computer Science

M.S. in Electrical Engineering (EG-MS-EEL) Program Worksheet

Name: _____   Z#: _____   Starting Term: _____

Phone #: _____   Overall GPA: _____   Date: _____

Degree Requirements

Students can choose between thesis and non-thesis options. Both options require a minimum of 30 credit hours (crs)
Regardless of the option chosen, all students must complete the following requirements:

- Complete **one** course (zero cr) CGS 5937 Graduate Seminar.
- Maintain a minimum 3.00 GPA to remain and graduate from the program.
- All courses within the degree program must be completed with a letter grade of "C" or higher.
- A minimum of 15 credit hours must be taken at the 6000 level.
- A maximum of 3 credit hours of Directed Independent Study (DIS) can be taken (faculty approval required).
- After completing 9 credit hours of coursework, students are required to submit a Plan of Study (POS) via MyPOS.

Non-Thesis Option Requirement

Students must complete 7 elective courses (21 crs) from any course offered by the EECS Department.

Thesis Option Requirements

- Students must secure a Thesis Advisor.
- Complete **6 credits hours** of Master's Thesis under the supervision of a faculty advisor.
- Complete **five** elective courses (15 crs) from any graduate course offered by the EECS department.

See additional Thesis Requirements on the last page

Prerequisite Courses Required for Admissions- if student does not have a Bachelor's degree in Electrical Engineering (BSEE). Complete EEL 3118L and EEL 3502. In addition, complete two courses from the list below.

Course Number & Title	Semester Taken	Grade
EEL 3118L Electronics Laboratory 1 **(Mandatory)**		
EEL 3502 Signals & Digital Filter Design **(Mandatory)**		
CDA 4630 Introduction to Embedded Systems		

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This worksheet is intended to assist with tracking your coursework and completing the required POS.

	Semester Taken	Grade	
EEL 3470 Electromagnetic Fields and Waves			
EEL 4361C Electronics 2 & Lab			
EEL 4512C Principle of Communication Systems			
EEL 4652C Control Systems 1			
EEE 4541 Stochastic Processes and Random Signals			
EEL 4216 Electric Power Systems			
EEL 4220 Electrical Machines			

Graduate Math, REQUIRED - Complete one graduate math course (3 crs) from the list below.
Students also have the option to complete any graduate level math course with prefixes: MAA, MAD, MAP, MAS, MAT, MHF, MTG, or STA.

Course Number & Title	Semester Taken	Grade
EEE 5502 Digital Processing of Signals		
EEL 5613 Modern Control		
EEL 5654 Controls II		
EEL 6482 Electromagnetic Theory 1		
EEL 6532 Information Theory		
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		

CGS 5937 Graduate Seminar, REQUIRED – One course (zero crs), requires a minimum letter grade of "S."
Offered only spring & fall semesters.

Course Number & Title	Semester Taken	Grade

Electrical Engineering Graduate Courses- Complete seven courses (21crs) if Non-Thesis option.
Complete six courses (18 crs) if Thesis option.

Course Number & Title	Semester Taken	Grade
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 & Antennas in Wireless Comm		
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		

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EEL 5654	Control Systems 2		
EEL 5661	Robotic Applications		
EEL 5934	Special Topics in Electrical Engineering		
EEL 6449	Fourier Optics and Holography		
EEL 6468	Smart Antennas		
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		
TCN 6120	Next Generation Telecommunications		
TCN 6122	Local Access & Internet Telecommunication Eng		

Electives- complete any graduate course offered by the Electrical Engineering & Computer Science (EECS) Department
Complete 2 electives (6crs) if Non-Thesis option. Complete one elective (3 crs) if Thesis option.

Course Number & Title	Semester Taken	Grade

Thesis Option- Complete 6 credit hours of Thesis. Student is required to have a thesis form signed by a faculty advisor to register for thesis credits.

Course Number & Title	Semester Taken	Grade
EEL 6971 Master's Thesis Electrical Engineering		

List any Directed Independent Study (DIS) course here. Student is required to have a DIS form signed by a faculty advisor to register for a DIS course.

Course Number & Title	Semester Taken	Grade

The EECS Department may approve substitutions for core or elective courses. List any course substitutions here. Student is required to have advisor approval in writing.

Course Number & Title	Indicate "core" or "elective"	Semester Taken	Grade

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List all failed courses here, with letter grades lower than a "C".

Course Number & Title	Semester Taken	Grade

Eligibility Requirements for Thesis Candidacy:

Students may apply for candidacy upon completing 9 credit hours of coursework and maintaining a 3.00 overall/cumulative GPA. Students must prepare a POS via MyPOS in consultation with their graduate advisor, detailing the courses necessary for fulfilling their degree requirements. Approval from the student's advisor is required for all listed courses.

Students working toward the MS Thesis option degree may not register for thesis credits until their POS has been approved.

The Thesis Committee is composed of:
• At least three faculty members
• A minimum of two members are from the EECS Department
• The Committee Chair from the EECS Department

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8/2024