

**DEPARTMENT OF
ELECTRICAL ENGINEERING
AND COMPUTER SCIENCE**
College of Engineering & Computer Science
Florida Atlantic University

PH.D. IN ELECTRICAL ENGINEERING WORKSHEET

Name: _____ Z#: _____ Date of Candidacy Exam Passed: _____

Dissertation Advisor (Chair): _____ Co-Chair: _____

Committee:

Member 1: _____ Member 2: _____ Member 3: _____

Member 4: _____ Member 5: _____ Member 6: _____

When did you submit Admission for Candidacy (Form 8), Semester: _____

Anticipated Date of your PhD proposal presentation: _____

Students are encouraged to submit their dissertation proposal as early as possible in consultation with their advisor but must do so at least six months prior to their defense.

Date: _____

Degree Requirements

- Minimum of 42 credits of coursework.
- Minimum of 27 credits must be in Computer Science and Engineering courses (excluding DIS and Advance Research credits).
- Minimum of 18 credits at the 6000-level.
- No more than 6 credits of Directed Independent Study and/or Advanced Research may be used to satisfy the minimum 42 credits. In that case, the subject matter may not overlap the student's dissertation.
- Minimum of 30 credits of dissertation.
- Minimum GPA of 3.0 (out of 4.0).
- All courses must be completed with a grade of "C" or higher.
- Mandatory two semesters of Graduate Seminar (zero credits).

Prerequisites

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			
EEE 4510	Introduction to Digital Signal Processing			
EEL 4512	Communications Systems OR			
EEL 4652	Control Systems 1			
EEL 4656	Analysis of Linear Systems			
EEL 3118L	Laboratory 1 (Mandatory)			

MS to PhD Requirements
(Minimum of 72 Credit Hours total)
For students entering with a Master's Degree

Master's Credits (minimum 30)

Course Number and Title	Semester Taken	Credits	Grade

Graduate Courses (18 credits)

Course Number and Title	Semester Taken	Credits	Grade
CGS 5937 Graduate Seminar 1 (Mandatory, 0 credits)			
CGS 5937 or CGS 6938 Graduate Seminar 2 (Mandatory, 0 credits)			

Math Requirement: At least 6 credits

Course Number and Title	Semester Taken	Credits	Grade
EEL 5613 Modern Control			
EEE 5502 Digital Processing of Signals			
EEL 5654 Control Systems 2			
EEL 6482 Electromagnetic Theory 1			
EEL 6537 Detection Theory			
EEL 6935 Special Topics in Electrical Engineering			
EOC 5172 Mathematical Methods in Ocean Engineering 1			
MAP 6264 Queueing Theory			

Electrical Engineering Dissertation Credit Courses: EEL 7980 (Minimum of 24 credits taken over multiple terms)

[illegible]

Electrical Engineering Directed Independent Study: EEL 6905 OR Advanced Research: EGN 6918 (No more than 3 crs)

Course Number and Title	Semester Taken	Credits	Grade

All PhD Students

*** PhD proposal must be presented and approved by the committee at least 6 months before the oral dissertation defense.**

Publication Requirement

A Doctoral Candidate is expected to have at least one research paper published or accepted for publication in a fully referred conference or journal prior to graduation.

Layout and Content of “Dissertation Proposal”

This document provides general guidelines for the layout and content of the dissertation proposal. The guidelines may be modified to suit the project and the students’ advisor may require additional material to be added to the proposal. The purpose of this document is to provide a starting point from which the final proposal can be developed.

Format

The dissertation proposal should be written using MS word or LaTeX. Please use the layout below and number each section accordingly.

Cover Page

The proposal cover page should include

- Title (up to 25 words) - The title can be a working title in that it can be changed at a later date. It should convey the essence of the proposed work.
- Student Name
- The statement Dissertation Proposal submitted in partial fulfillment of a Doctoral Degree in Computer and Electrical Engineering and Computer Science.
- Date
- Names and room for signature of the student’s advisor and advisory committee.

Content

The dissertation proposal should include the following sections:

1. **Introduction** - Gives the background to the work in general terms and the layout of the document.
2. **Dissertation Objective** - A statement, which is less than half a page long, specifying the objective of the work.
3. **Literature Review** - Reviews pertinent literature with the objective of placing the research in the context of work that has been done before. Having read this section, the committee will have a clear understanding of how the dissertation will provide new insights and advance the state of the art. A dissertation proposal must clearly identify the uniqueness of the study.
4. **Approach** - Describes the theoretical, experimental, or numerical approach that will be used in the study, including the background theory where necessary. The derivation of major equations can be added in an appendix if required by the student’s supervisor.
5. **Tasks to be completed** - This should describe the expected series of tasks that will be undertaken during the study.
6. **Timetable** - Defines the timeline for the completion of the work.
7. **References** - A list of references should be provided in an appropriate academic format such as Harvard or Author-Date.
8. **Figures and Tables** - Figures and tables may be placed in the document or at the end of the document. Each figure and table should be numbered in the order that it is referred to in the text and have a caption/heading that describes the content of the figure/table.