

The University of Connecticut

School of Engineering

ELECTRICAL ENGINEERING

GUIDE TO COURSE SELECTION

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for

Electrical Engineering (EE) Majors

in

The School of Engineering

Prepared by the
Electrical & Computer Engineering Curricula & Courses Committee
School of Engineering, University of Connecticut.

<http://www.ee.uconn.edu/ececourseguide.php>

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1. INTRODUCTION

The purpose of this document is to guide students in designing a plan of study for the **Electrical Engineering** program at the University of Connecticut. Any such plan must be consistent with the Electrical Engineering Program Educational Objectives. The Program Educational Objectives (PEO) have been developed to satisfy the requirements of the Accreditation Board for Engineering and Technology (ABET).

This Guide is intended to be used in conjunction with the University of Connecticut General Catalog as a source of information regarding degree requirements in Electrical Engineering.

1.1 Preparation of Plans of Study

Prior to registration during the first semester of the Junior year [typically when a student is taking ECE 3101 (202) and/or ECE 3201 (212)], or for transfer students in the second semester at the University of Connecticut, whichever is later, each student must complete a Plan of Study form documenting the program he/she intends to follow. In order to help students in developing a suitable Plan of Study form which is consistent with the Electrical Engineering Program Educational Objectives, the ECE department holds a Plan of Study meeting, normally scheduled sometime during the first five weeks of each semester. All students intending to file a Plan of Study form in EE should attend one of these meetings. Details about the process of filling out a Plan of Study form are provided later in Section 6.

2. ELECTRICAL ENGINEERING PROGRAM

The Electrical Engineering Program at the University of Connecticut is continuously evolving and improving in response to feedback from our constituents and program assessment results.

We have developed a set of Program Educational Objectives which are periodically reviewed by all constituents (including our alumni and employers of our graduates). PEOs refer to the abilities and accomplishments of EE graduates several years after graduation. The feedback provided by our constituents is used to refine and improve the Program Educational Objectives.

We have determined a set of Program Outcomes which are necessary for the achievement of the Program Educational Objectives. They describe the abilities that our students will have at the time of graduation from the EE program. We use several assessment tools (including senior design project evaluation, alumni surveys, exit interviews, senior surveys, and course-level assessment) to measure our success with respect to the Program Outcomes. The assessment results are reviewed periodically and used for the continuous improvement of the program and our courses.

The two-loop process involving the definition of the Program Educational Objectives (loop one) and the assessment / program improvement (loop two) is shown below.

Based on the Program Educational Objectives, we have defined Program Outcomes necessary for their fulfillment. Program assessment is used to insure that these outcomes are achieved. The **EE Program Outcomes**, identical to the ABET-defined (a-k) outcomes, are listed as follows. They stipulate that, at the time of graduation from the EE program, the graduates will have the abilities described.

- (a) an ability to apply knowledge of mathematics, science, and engineering
- (b) an ability to design and conduct experiments, as well as to analyze and interpret data
- (c) an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
- (d) an ability to function on multi-disciplinary teams
- (e) an ability to identify, formulate, and solve engineering problems
- (f) an understanding of professional and ethical responsibility
- (g) an ability to communicate effectively
- (h) the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context
- (i) a recognition of the need for, and an ability to engage in life-long learning
- (j) a knowledge of contemporary issues
- (k) an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

3. ELECTRICAL ENGINEERING CURRICULUM

The basic level curriculum has been designed to achieve the Program Educational Objectives and to meet the University General Education Requirements. Section 3.1 describes the University General Education Requirements. Section 3.2 describes the basic-level EE Curriculum with the courses and options offered in the lower and upper divisions provided in Sections 3.3 and 3.4.

3.1 General Education Requirements (University Core Curriculum)

As part of all baccalaureate degree programs at the University, students are required to satisfy a common core of coursework known as the General Education Requirements. These are described in what follows.

Foreign Languages

The minimum requirement is met if the student is admitted to the University with three years of a single foreign language in high school, or the equivalent. If the student has not met the minimum requirement through high school coursework, he or she must pass the second semester course of the introductory year-long course sequence in a language at the University.

Expository Writing

All students must take ENGL 1010 (110) Seminar in Academic Writing or ENGL 1011 (111) Seminar in Writing through Literature. In addition to these courses, all students must complete two Writing (W) courses. As shown in the following pages, two Writing courses are specified in the required coursework in Electrical Engineering.

Arts and Humanities (Content Area One)

All students must take two Arts and Humanities courses. These courses must be from two different departments. All students in the School of Engineering are required to take PHIL 1104 (104), which satisfies one of these requirements.

Social Sciences (Content Area Two)

All students must take two Social Sciences courses. These courses must be from two different departments.

Science and Technology (Content Area Three)

All students must take two Science and Technology courses. These courses must be from two different departments. All engineering students satisfy this requirement automatically with required courses.

Diversity and Multiculturalism (Content Area Four)

All students must take two Diversity and Multiculturalism courses. One of these courses may also count toward the Content Area One or Content Area Two. One of these courses must be an international course.

The list of approved courses has been furnished by the General Education Oversight Committee. It is available at <http://geoc.uconn.edu/Approved%20Courses.htm>.

3.2 Electrical Engineering Basic-Level Curriculum

The basic-level curriculum is given in Table 3.1. This basic-level curriculum typically includes 34 credit hours of Math and Basic Science, 57 credit hours of Engineering Topics, 22 credit hours of General Education, and 13 credit hours of Other topics, as defined by the Accreditation Board for Engineering and Technology.

Table 3.1. Basic-Level EE Curriculum

(continued on next page)

Year; Semester or Quarter	Course (Department, Number, Title)	Category (Credit Hours)			
		Math & Basic Sciences	Engineering Topics	General Education.	Other
			Check if Contains Design (✓)		
Freshman Fall	CHEM 1127Q (127Q) General Chemistry	4	()		
	MATH 1131Q (115Q) Calculus I	4	()		
	ENGL 1010 (110) or ENGL 1011 (111)		()	4	
	CSE 1010 Intro to Computing for Engr.		()		3
	ENGR 1000 (100) Orientation to Engineering		()		1
Freshman Spring	PHYS 1501 (151) Physics for Engineers I	4	()		
	MATH 1132Q (116Q) Calculus II	4	()		
	ECE 1110 or CSE 1102 or ENGR 1166		3 (✓)		
	Arts and Humanities course		()	3	
	ECE 1101 (101) Computer Tools		()		1
Sophomore Fall	PHYS 1502 (152) Physics for Engineers II	4	()		
	MATH 2110Q (210Q) Multivariable Calculus	4	()		
	CSE 2300W (210W) Digital Logic		4 (✓)		
	Social Sciences course		()	3	
Sophomore Spring	MATH 2410 (211Q) Elementary Differential Equations	3	()		
	ECE 2001W (210W) Electrical Circuits		4 (✓)		
	PHIL 1104 (104)		()	3	
	STAT 3345Q (224) Probability Models for Engineers	3	()		
	Social Sciences course		()	3	

Table 3.1. Basic-Level EE Curriculum (continued)

Year; Semester or Quarter	Course (Department, Number, Title)	Category (Credit Hours)			
		Math & Basic Science	Engineering Topics Check if Contains Design (✓)	General Education	Other
			()		
Junior Fall	ECE 3101 (202) Signals and Systems		3 ()		
	ECE 3201 (212) Electronic Devices and Circuits		4 (✓)		
	ECE 3001 (205) Electromagnetic Fields and Waves	1	2 ()		
	MATH 2210Q (227Q) Linear Algebra	3	()		
	Diversity and Multiculturalism course		()	3	
Junior Spring	ECE 3111 (232) Systems Analysis		3 (✓)		
	ECE 4211 (245) Micro/Opto-electronic Devices		3 (✓)		
	ECE 3211 (214) Power Electronics		2 (✓)		
	ECE 4201 (240) Electronic Circuits and Applications		3 (✓)		
	Diversity and Multiculturalism course		()	3	
	Elective		()		2
Senior Fall	ECE 4901 (290) Computer and Electrical Engineering Design I		2 (✓)		
	ECE 4111 (241) Communication Systems		3 (✓)		
	Design Laboratory		3 (✓)		
	Professional Requirement		3 ()		
	Professional Requirement		3 ()		
	Elective		()		3
Senior Spring	ECE 4902 (291) Computer and Electrical Engineering Design II		3 (✓)		
	Design Laboratory		3 (✓)		
	Professional Requirement		3 ()		
	Professional Requirement		3 ()		
	Elective		()		3
			()		
			()		
TOTALS-ABET BASIC-LEVEL REQUIREMENTS		34	57 (✓)	22	13
OVERALL TOTAL FOR DEGREE		126			
PERCENT OF TOTAL		27%	45% (✓)	20%	10%
Totals must satisfy one set	Minimum semester credit hours	32 hrs	48 hrs		
	Minimum percentage	25%	37.5 %		

3.3 Overview of the Freshman and Sophomore Years

The lower division, or freshman and sophomore years, of the Electrical Engineering curriculum are similar to the other engineering curricula. The recommended sequence of courses is as follows.

FRESHMAN YEAR			
First Semester	Credits	Second Semester	Credits
CHEM 1127Q (127Q) General Chemistry	4	PHYS 1501 (151) Physics for Engineers I	4
MATH 1131Q (115Q) Calculus I	4	MATH 1132Q (116Q) Calculus II	4
CSE 1010 Intro to Computing for Engr.	3	ECE 1110 (110) Microcontroller Appl. In Engr. or CSE 1102 (133) Object Oriented Design or ENGR 1166 (166) Foundations of Engr.	3
ENGL 1010 (110) or ENGL 1011 (111)	4	Arts and Humanities course	3
ENGR 1000 (100) Orientation to Engineering	<u>1</u>	ECE 1101 (101) Computer Tools	<u>1</u>
	16		15

SOPHOMORE YEAR			
First Semester	Credits	Second Semester	Credits
MATH 2110Q (210Q) Multivariable Calculus	4	MATH 2410 (211Q) Elementary Differential Equations	3
PHYS 1502 (152) Physics for Engineers II	4	ECE 2001W (210W) Electrical Circuits	4
CSE 2300W (210W) Digital Logic	4	PHIL 1104 (104)	3
Social Sciences course	<u>3</u>	STAT 3345Q (224) Probability Models for Engineers	3
	15	Social Sciences course	<u>3</u>
			16

EE Students have a choice of ECE 1110 (110) (recommended), CSE 1102 (133C), or ENGR 1166 (166) in the second semester.

3.4 Overview of the Junior and Senior years

The Electrical Engineering upper division curriculum, as described below, includes required courses and a number of professional requirements. The professional requirements are used to allow the student to specialize in a particular area within Electrical Engineering or to broaden his or her knowledge.

JUNIOR YEAR			
First Semester	Credits	Second Semester	Credits
ECE 3101 (202) Signals and Systems	4	ECE 3111 (232) Systems Analysis	2
ECE 3201 (212) Electronic Devices and Circuits	3	ECE 4211 (245) Micro/Opto-electronic Devices	3
ECE 3001 (205) Electromagnetic Fields and Waves	3	ECE 3211 (214) Power Electronics	3
MATH 2210Q (227Q) Linear Algebra	3	ECE 4201 (240) Electronic Circuits and Applications	3
Diversity and Multiculturalism course	<u>3</u>	Diversity and Multiculturalism course	3
	16	Elective	<u>2</u>
			16

SENIOR YEAR			
First Semester	Credits	Second Semester	Credits
ECE 4901 (290) Computer and Electrical Engineering Design I	2	ECE 4902 (291) Computer and Electrical Engineering Design II	3
ECE 4111 (241) Communication Systems Design Laboratory	3	Design Laboratory	3
Professional Requirement	3	Professional Requirement	3
Professional Requirement	3	Professional Requirement	3
Elective	<u>3</u>	Elective	<u>3</u>
	17		15

¹The three-semester sequence of MATH 1125Q-1126Q followed by Math 1132Q (116Q) may be taken instead to satisfy this requirement. Only one credit of MATH 1125Q can be used toward the required 126 credits for the Engineering degree.

²The courses from content areas one (Arts and Humanities) and two (Social Sciences) must be from four different departments. One course from either content area one (Arts and Humanities) or content area two (Social Sciences) may also be used to fulfill one of the requirements from content area four (Diversity and Multiculturalism). One course from content area four must be an international course.

³Courses which may be used to fulfill the 6 credits Design Laboratory requirement include ECE 3225 (225), 3421 (249), 4244 (251), 4079 (265), 3411 (266), 4242 (268), 4401 (280), and 4132 (292).

⁴The 12 credits of Professional Requirements must be technical (defined as engineering, mathematics, statistics, physical and life sciences, when appropriate) courses numbered 3000 or higher. At least six (6) credits of the Professional Requirement coursework must be chosen from Electrical and Computer Engineering (ECE) courses, and at least three (3) credits must be from other than Electrical and Computer Engineering (non-ECE) courses. Laboratory courses cannot be used for PR's unless approved by the Department in writing before the course is taken. Courses open to sophomores (regardless of their numbers) may not be used as PR's. If they are deemed necessary, they may be taken as free electives.

The entire program of professional requirements is selected by the student, subject to approval by his/her advisor, the Department Head, and final approval by the Dean of Engineering.

4. UPPER DIVISION EE HONORS PROGRAM

Deadlines

Fall Admission--Early: Feb. 12,
Regular: July 1

Rising Juniors

Students with a grade point average of at least a 3.2 (with at least 54 credits completed) who wish to do Honors work in their junior/senior years may apply for admission in the second semester of – or immediately following – the sophomore year. In addition to completing the application for admission, students applying for admission for junior/senior-level study must obtain departmental consent from the major department's Honors advisor (Prof. Krishna Pattipati). In granting departmental consent, an Honors advisor is making a favorable judgment

as to the student's qualifications for Honors work in the major. For information about the Honors Program, visit the website at <http://www.honors.uconn.edu>.

EE Honors Program

The Electrical Engineering program participates in the Honors Program at UConn. The ECE Department will offer honors sections of the following courses so that the Honors Program requirements (minimum 12 credits) can be satisfied within the EE Program.

ECE 3101 (202) (3 credits; Fall, Junior Year)

ECE 3221 (215) **or** ECE 3111 (232) (each 3 credits; Spring, Junior Year)

CSE 4950 (290)/ECE 4901 (290) (2 credits; Fall & Spring, Senior Year) **and** ECE 4099 (299) (1 credit):

Independent Study

CSE 4951 (291)/ECE 4902 (291) (3 credits; Fall & Spring, Senior Year)

Electrical and Computer Engineering Design CSE 4950 & 4951 (290 & 291) /ECE 4901 & 4902 (290 & 291) can be used for the Honors Thesis.

Notes

- ECE *graduate* courses may be taken to fulfill (automatically) honors course requirements.
- The honors thesis can be satisfied with Electrical and Computer Engineering Design I and II. **No other honors thesis is required for the Honors Program if you successfully complete the Senior Design coursework.**

5. DOUBLE MAJORS, MINORS, and ADDITIONAL DEGREES

It is possible to pursue a double major program in Electrical Engineering and one of the other undergraduate engineering curricula, to pursue a minor degree program in conjunction with the EE degree, or to pursue an additional degree within the University. Any student pursuing a second baccalaureate degree must i) submit an Additional Degree Petition (which requires the consent signature from the Dean of the School of Engineering) and ii) meet the course requirements of both degrees; and iii) earn at least 30 credits more than the requirements of the degree with the higher credit minimum.

Double Major with another Engineering program

Opportunities exist to pursue a double major program in Electrical Engineering and one of the other undergraduate engineering curricula. Of the other curricula, the Computer Engineering (CMPE) and the Computer Science and Engineering (CSE) majors have the most overlap with the EE curriculum and are the most popular double majors for EE students. If a student wishes to be a double major within Engineering, he or she should notify the Dean. Careful planning of course selection should be done each semester in consultation with the

student's advisor. A separate Plan of Study form for each major must be prepared and submitted for approval.

Minors

Several minors are available within the University that may be attractive to students pursuing the Electrical Engineering degree. Examples include minors in Mathematics and Statistics, within the College of Liberal Arts & Sciences, as well as the Biomedical Engineering minor within the School of Engineering.

Additional Degree with another major outside of Engineering

From time to time students wish to obtain an additional degree in a field outside of the School of Engineering. One example of an additional degree would be that found in the EUROTECH program in which the completion of a degree in German Studies within the College of Liberal Arts & Sciences is achieved at the same time the student completes the primary degree in a major within the School of Engineering. Students who have such an interest should discuss the procedure for pursuing the additional degree with the Director of Undergraduate Advising, (486-5462).

6. FILLING OUT THE PLAN OF STUDY FORM

All students in the first semester of their Junior year in the Engineering curriculum must prepare a written Plan of Study form. These students should work with their advisors to determine a Plan of Study which meets the degree requirements of the School of Engineering and the University.

After an initial consultation with the advisor, the student should prepare two (2) original copies of the Plan of Study form (available from the Department office or from the School of Engineering website at <http://www.engr.uconn.edu/plansofstudy.php>) by following the guidelines given below. Once the two original copies are prepared, the student should make an appointment with his/her advisor to have him/her review and approve the form. Both the advisor and the student should check his/her transcript to be sure that all Lower Division (freshman/sophomore) requirements have been met and should check that the proposed Upper Division (junior/senior) plan satisfies Department, School, and University requirements. After the form is approved by the advisor, the two originals should be forwarded to the Associate Department Head, Prof. John Chandy, for approval, prior to being forwarded to the Director of Undergraduate Advising (U-3187).

The Associate Department Head will indicate his approval of the Plan of Study, and then will send the two originals to the Director of Undergraduate Advising. The Director of Undergraduate Advising will evaluate the Plan and indicate his approval of it. In the event that approval is not given, the difference of opinion must be worked out among the advisor, the student and the Director of Undergraduate Advising or Associate Department Head, as appropriate.

The Dean's Office will return two copies of the approved tentative Plan of Study form to the advisor: one of the two "originals" which is to be kept in the student's counseling folder, the other being a photocopy to be given to the student.

Note that an approved Plan of Study form can be modified at any time if course offerings and student objectives warrant it. However, no modification that jeopardizes the meeting of

requirements will be approved. Modification must be made in consultation with the student's advisor and will usually involve the submission of a "revised" Plan of Study form for approval, in the same manner as the "original" form was prepared and submitted. Although not required until the last semester, it is suggested that a "revised" form be submitted each semester rather than waiting until the final semester. This way any problems can be caught as early as possible. This "revised" Plan of Study form may be created as done initially by forming two new originals, or by marking the changes on the approved "original" and having this "revised" form circulated for approval. Alterations to the courses listed should be made by crossing out the course(s) not taken, writing in those that were, and having the advisor initial and date each change. If extensive changes are to be made, or if a second revision is necessary, a new "original" Plan of Study form must be submitted.

The Plan of Study form should be reviewed at each subsequent registration period. *In the student's last semester, he/she is required to file a "final" Plan of Study form which accurately lists all the courses that were taken to satisfy degree requirements.* Any modifications to an already approved Plan of Study form should then be submitted for final approval following the above procedure.

The Plan of Study forms should be filled out neatly in ink. All approval initials and signatures should be in ink and dated. Expected date of graduation and year of catalog requirements must be clearly shown. The following guidelines should be adhered to:

Double Major: If you plan to follow a double major, indicate at the bottom of the Plan of Study form what it will be; i.e. " Double Major: department ". Note that some double majors will require submitting a completed Plan of Study form from each department. The approval of the Department Head from the double major department is also required as indicated on the form.

Catalog year and date of graduation: It is extremely important that you accurately list what catalog year you are filing under and your intended date of graduation. Both items are needed for use by the Registrar so that completion of your degree requirements may be certified by your graduation date.

Courses taken: The Plan of Study form must show exactly the courses being used to satisfy degree requirements. Exemption from specific School of Engineering course requirements or substitution of alternative courses must be clearly indicated on the Plan of Study form, explained in the "Comments" section and/or with an attachment, and may require approval via petition by the Director of Undergraduate Advising (see "Exemption and Substitution" below).

Foreign Language Requirement: The Foreign Language requirement calls for three years of a single foreign language in High School or passing the second semester course of the introductory year-long course sequence in a language at the University. The words "High School" should be circled if the student has met this requirement in High School. If not, the appropriate university courses should be listed.

Expository Writing Requirement: The General Education Requirement for Expository Writing is met through ENGL 1010 (110) or ENGL 1011 (111) and two "W" (writing) courses which are part of the engineering curriculum for each department (for EE majors, CSE 2300W (210W) and ECE 2001W (210W) are required). Thus, the Plan of Study form (and the student

transcript) must show these courses. If, for some reason beyond the student's control, the major "W" courses are not taken, the student will have to take the required "W" courses outside the department curriculum.

Arts and Humanities (Content Area One): All students must take two Arts and Humanities courses. These courses must be from two different departments. All students in the School of Engineering are required to take PHIL 1104 (104), which satisfies one of these requirements.

Social Sciences (Content Area Two): All students must take two Social Sciences courses. These courses must be from two different departments.

Science and Technology (Content Area Three): All students must take two Science and Technology courses. These courses must be from two different departments. All engineering students satisfy this requirement with required courses.

Diversity and Multiculturalism (Content Area Four): All students must take two Diversity and Multiculturalism courses. One of these courses may also count toward the Content Area One or Content Area Two. One of these courses must be an international course.

Required courses: Required courses are shown on the form. If there are alternatives listed, the course(s) that the student has taken or intends to take should be circled (e.g., ENGL 1010 (110) or ENGL 1011 (111), circle 1010 or 1011 depending on which one was taken).

Professional Requirements: The Professional Requirements which are not specified on the Plan of Study form are chosen in consultation with the student's advisor.

Restrictions: The following courses may not be counted for credit toward graduation: MATH 1120Q (112Q) and 1110Q (118Q) along with other mathematics courses numbered below 1120Q; PHYS 1010Q (101Q), 1030Q (103Q); CSE 1000C (101C); STAT 1000CQ (100CQ); and courses labeled "independent study" or "variable topics" taken in departments outside of the School of Engineering. No course taken on a Pass/Fail basis may be counted for credit toward graduation or used to meet any course requirement of the School of Engineering. Many general University restrictions are shown in the Academic Regulations and Procedures section of the University Catalog.

Exemption and Substitution: Students who desire to be excused from any of the requirements, or to substitute other courses for those prescribed, must do so by submitting a petition to the Dean. Some examples of this type of departure from a published regulation are as follows: exemption from MATH 1131Q (115Q) for a student who had Calculus in high school and started in our MATH 1132Q (116Q) or substitution of PHYS 1201Q (121Q), 1202Q (122Q), 1530 (125Q) for PHYS 1501Q (151Q), 1502Q (152Q). Note that a substitution of three courses for two (as in the Physics example) results in only the credits for the two being counted for graduation, i.e. you are making a substitution for the equivalent work. Note that substitutions for courses taken as departmental Professional Requirements usually do not require a petition for approval by the Dean, but may be indicated on the Plan of Study form directly. Students must

not write down or leave unchanged anything on the Plan of Study that they have not actually taken or plan to take.

Transfer Courses: Transfer courses should be listed on the Plan of Study form just as any other course, with a superscript of "T" to indicate which courses were transferred. Transfer courses may be counted at their University of Connecticut equivalent credit in the category totals if the transcript does not show the number of credits granted for the particular course.

For transfer work that does not have an exact University of Connecticut equivalent; e.g., 4.25 credits of ECE 1000) LEVEL, the credits should be listed as follows:

ECE 1000 LEVEL (4.25)^T

In other words, the discipline followed by the level with an indication of how many credits are needed.

The total transfer credit granted (not the sum of the University of Connecticut equivalents) less any equivalent restrictions (such as subtracting 3 credits if MATH 1040Q (107Q) is listed since this course does not count for credit in the School) should be listed on the line labeled "Transfer Credits". The total of all credits taken at the University of Connecticut should be listed on the line labeled "University of Connecticut Credits". The sum of the "Transfer Credits" and the "University of Connecticut Credits" should be listed on the "Total Credits" line. The total credits must equal or exceed 126.

Changes: Changes to a previously submitted Plan of Study form may be made in consultation with the advisor and will require submission of a "revised" Plan of Study form for approval, in the same manner as the "original" form was prepared and submitted. This may be done by marking the changes on the previously approved original Plan of Study form, available from the advisor or the Office of the Dean, and having the advisor initial and date each change. No modifications of a photocopy will be accepted. If a second revision of an "original" is necessary, or if extensive changes are to be made, the submission of a new "original" Plan of Study form is required. In the student's last semester, he/she must submit a "final" Plan of Study form which accurately lists all the courses that were taken to satisfy degree requirements.