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3
1 General Information

The ECE Department offers three graduate programs, MSECE, PhDEE, and PhDCE. All programs can be pursued full-time or part-time (FT or PT). MSECE students, at the time of applying to the program, select one of the two tracks (course-thesis track, MST, or course-only track, MSC) as well as their concentration. PhDCE students are automatically in the Computer Engineering concentration. PhDEE students can be in any concentration except Computer Engineering.

All applicants with a BS or MS degree in electrical engineering, or a closely related field, can apply either to the MSECE or one of the PhD programs. In other words, for applying to one of the PhD programs it is enough to hold a BS in electrical engineering, or a closely related field.

1.1 Graduate Advising

Graduate students are assigned an academic advisor before matriculation in the graduate program. The academic advisor is generally in the same concentration as the student.

For the students who are supported by Research Assistantship (RA), Dean's Fellowship (DF), and Dean's Distinguished Fellowships (DDF), the academic advisor is the supporting faculty, who is their research advisor as well.

As soon as PhD and MST students have the agreement of a faculty member to be their research advisor, and have completed and submitted the PhD Research Advisor Form, their research advisor will also serve as their academic advisor. In cases where the research advisor is not a tenured or tenure-track ECE faculty (i.e., he/she is an affiliated or adjunct faculty), the academic advisor assigned originally will continue to serve as the academic advisor. Students who change concentration will be assigned new academic advisors in the new concentration.

2 The ECE Graduate Curriculum

The graduate program at the ECE Department currently offers five concentrations: Communications, Control, and Signal Processing (CCSP), Computer Engineering (CMPE), Electromagnetics, Plasma, and Optics (ELPO), Microsystems, Materials and Devices (MSMD), and Power Systems, Power Electronics, and Motion Control (POWR).

The department has recently approved that — at the MS level — the Computer Engineering concentration (CMPE) be substituted with three new concentrations: Computer Systems and Software (CSSW), Computer Networks and Security (CNWS), and Computer Vision, Machine Learning, and Algorithms (CVMA). This change will increase the number of concentrations from five to seven and will affect the graduate students who matriculate in spring 2016 or later.

Continuing students in CMPE concentration may choose to change to one of the three new concentrations, if they wish, beginning spring 2016, as long as they are not graduating prior to fall 2016. Continuing students who are graduating prior to fall 2016 cannot move into the three new concentrations.

At the PhD level, the department will continue to have two degrees, PhDEE and PhDCE.

This document is written for students entering the graduate program in fall 2015 and is based on our current five concentrations. For completeness, we have also included depth courses for the three new concentrations which will substitute CMPE starting January 2016 on pages 31–32.
2.1 Depth, Breadth, and Excluded Courses

It is essential to know the meaning of **DEPTH, BREADTH, and EXCLUDED courses** in the graduate curriculum. These notions are explained below:

**Depth Courses:** These courses provide depth of knowledge in one of the ECE concentrations. Your depth courses depend on your concentration and are listed under "Depth Courses" for your concentration (see pages 25–29). Depth courses can be either ECE or non-ECE courses (for instance, a number of CS and MATH courses are listed under CMPE “Depth Courses”). **No petition is required** to take depth courses; this applies to both ECE and non-ECE depth courses. Please note that in some older documents “Depth Courses” are referred to as “Approved Concentration Courses”; there is no difference between these two names.

**Breadth Courses:** These courses are required to provide knowledge in areas besides your concentration. Any graduate-level course **that is not a depth course for your concentration** (i.e., is not listed under the "Depth Courses" of your concentration) can be a potential "Breadth Course".

There are two categories of breadth courses:

1-**Courses listed as depth course under an ECE concentration different from yours:** These can be ECE or non-ECE courses. Taking these courses as breadth **does not require a petition.**

2-**Courses that are not depth courses for any ECE concentration:** These are mainly graduate-level courses outside the ECE Department, but in a department closely related to ECE. Taking non-ECE courses in this category **requires filing a petition, and getting its approval, before registering in the course.** The details of how to file a petition are explained in Section 9.

**Note:** CMPE students **cannot** select their breadth courses from the College of Computer and Information Science (i.e., CS courses).

**Excluded Courses** These courses **cannot** be selected as part of your MSECE program and, therefore, cannot be petitioned. These are generally non-ECE courses. Please see Section 15.7 for the list of excluded courses.
3 Checklist for MSECE Course-only Track Students

Please use the following checklist for successful progress towards MSECE (course-only track):

Step 1 Make sure that you know your assigned academic advisor and consult with him/her regularly. It is essential that you meet your academic advisor prior to the pre-registration period for each semester and review your course selection with him/her.

Step 2 Plan a program of study for your degree in consultation with your academic advisor. Make sure that all prerequisites are taken before the time you plan to register in a course (for course description and pre-requisites see here). You need to complete 32 SH of graduate-level course work to graduate. The details are given below.

Step 3 Depth Requirements: Refer to the list of “Depth Courses” for your concentration on pages 25–29. You need to take and successfully complete at least five “Depth Courses” (20 SH).

Step 4 Breadth Requirements: Graduate level courses outside your “Depth Courses”, whether in ECE or in a closely related department, can be taken as “Breadth Courses”. You need to complete at least two “Breadth Courses” (8 SH).

Note 1 If you plan to take a non-ECE breadth course that is not on the list of “Depth Courses” of one of the ECE concentration, you need to file a petition before registration in the course. See Section 9 on how to file a petition.

Note 2 Courses that are listed under “Excluded Courses” cannot be taken towards the MSECE degree. Please do not file petition to take these courses. Such petitions are automatically rejected. See Section 15.7 for the list of excluded courses.

Note 3 The total number of non-ECE courses that you can take, whether they are depth or breadth courses, cannot be more than two courses (8 SH). CMPE students can take up to three non-ECE courses (12 SH).

Note 4 If you want to register in a CS class and you find the course is closed, you need to send an email to Danielle DiFazio at d.difazio@neu.edu. She will help you to override registration limitation or will add your name to the course waiting list.

Note 5 You may register for EECE7400 (Special Problems in ECE, 1–4 SH) for at most 4 SH in your MSECE program. Registration in this course requires filing a petition (see Section 9).

Note 6 A maximum of 9 SH of graduate level course work can be transferred from other institutions. Transfer credit is subject to approval of the Graduate Affairs Committee (GAC) and requires filing a petition (see Note 1 above on how to file a petition). You need to have a grade of at least B in transfer courses. Transfer courses should not have been previously counted towards obtaining a degree. For more details see Section 12.

Note 7 To graduate you must have a cumulative GPA of at least 3.00 with no more than 8 semester hours of grades below B– in all courses applied to the degree.

Step 5 You graduate when you have successfully passed 32 SH of course work and have satisfied all the conditions explained above.
4 Checklist for MSECE Thesis-Course Track Students

Please use the following checklist for successful progress towards MSECE (thesis-course track):

Step 1 Make sure that you know your assigned academic advisor and consult with him/her regularly. It is essential that you meet your academic advisor prior to the registration period for each semester and review your course selection with him/her.

Step 2 Plan a program of study for your degree in consultation with your academic advisor. Make sure that all prerequisites are taken before the time you plan to register in a course (for course description and pre-requisites see here). You need to complete 24 SH of graduate-level course work plus 8 SH of thesis to graduate. The details are given below.

Step 3 Talk to the ECE faculty about their research interests and find a research advisor whose research matches your interests and background. Your research advisor can be any tenured, tenure-track, affiliated, or adjunct ECE faculty. After finding a research advisor, he/she will be your academic advisor as well (if your research advisor is not a tenured/tenure-track ECE faculty, your originally assigned academic advisor will continue to serve as your academic advisor). The deadline for finding a research advisor is one year after your matriculation at NEU. If you cannot find a research advisor, you need to file a petition to change to MSECE course-only track.

Step 4 Depth Requirements: Refer to the list of “Depth Courses” for your concentration on pages 25–29. You need to take and successfully complete at least three “Depth Courses” (12 SH).

Step 5 Breadth Requirements: Graduate level courses outside your “Depth Courses”, whether in ECE or in a closely related department, can be taken as “Breadth Courses”. You need to complete at least two “Breadth Courses” (8 SH). If your research advisor recommends, the number of “Breadth Courses” can be reduced to one, but you need to file a petition for this. See Section 9 on how to file a petition.

Note 1 If you plan to take a non-ECE breadth course that is not on the list of “Depth Courses” of one of the ECE concentration, you need to file a petition before registration in the course. See Section 9 on how to file a petition.

Note 2 Courses that are listed under “Excluded Courses” cannot be taken towards the MSECE degree. Please do not file petition to take these courses. Such petitions are automatically rejected. See Section 15.7 for the list of excluded courses.

Note 3 The total number of non-ECE courses that you can take, whether they are depth or breadth courses, cannot be more than three courses (12 SH).

Note 4 If you want to register in a CS class and you find the course is closed, you need to send an email to Danielle DiFazio at d.difazio@neu.edu. She will help you to override registration limitation or will add your name to the course waiting list.

Note 5 You may register for EECE7400 (Special Problems in ECE, 1–4 SH) for at most 4 SH in your MSECE program. Registration in this course requires filing a petition (see Section 9).
Note 6  A maximum of 9 SH of graduate level course work can be transferred from other institutions. Transfer credit is subject to approval of the Graduate Affairs Committee (GAC) and requires filing a petition (see Note 1 above on how to file a petition). You need to have a grade of at least B in transfer courses. Transfer courses should not have been previously counted towards obtaining a degree. For details see Section 12.

Step 6  Thesis Requirements: You need to register for 8 SH in EECE 7990 (Master’s Thesis). This is usually done in two semesters, each semester 4 SH, but can also be done in one semester for 8 SH.

Note 1  If after taking 8 SH of EECE 7990 (Master’s Thesis), you have not yet successfully defended your thesis, you need to register each semester in EECE 7996 (Master’s Thesis Continuation, 0 SH) until you defend your thesis.

Note 2  When you are ready to defend your thesis, you need to form a “Thesis Committee” in consultation with your advisor. The Committee must have at least three members, and at least two of the members must be tenured or tenure-track ECE faculty. After successful defense of your thesis a letter grade will be assigned to EECE 7990 (Master’s Thesis). MS thesis announcement form can be found here.

Note 3  LATEX templates for writing MS thesis can be found here.

Step 7  You graduate when you have successfully defended your thesis and fulfilled your course requirements. To graduate you must have a cumulative GPA of at least 3.00 with no more than 8 semester hours of grades below B- in all courses applied to the degree.
5 Checklist for PhD Students Entering with MS Degree

Step 1 Make sure that you know your assigned academic advisor and consult with him/her regularly. It is essential that you meet your academic advisor prior to the registration period for each semester and review your course selection with him/her.

Step 2 Plan a program of study for your degree in consultation with your academic advisor. Make sure that all prerequisites are taken before the time you plan to register in a course (for course description and pre-requisites see here).

Step 3 If you do not already have a research advisor, talk to the ECE faculty about their research interests and find a research advisor whose research matches your interests and background. Your research advisor can be any tenured, tenure-track, affiliated, or adjunct ECE faculty. After finding a research advisor, he/she will be your academic advisor as well (if your research advisor is not a tenured/tenure-track ECE faculty, your originally assigned academic advisor will continue to serve as your academic advisor). The deadline for finding a research advisor is one year after your matriculation at NEU. For details see Section 7.

Step 4 Course Requirements: You need to complete at least 16 SH of graduate level course work beyond Master's degree.

Note 1 Typically, students take more than 16 SH, usually 24 SH.
Note 2 Courses are selected in consultation with your research advisor.
Note 3 At least 8 SH of your courses must be graduate-level ECE courses.
Note 4 If you plan to register in a non-ECE course that is not on the list of “Depth Courses” of one of the ECE concentration, you need to file a petition before registration in the course. Please see Section 9 on how to file a petition.
Note 5 You may register for EECE7400 (Special Problems in ECE, 1–4 SH) for at most 4 SH in your PhD program. Registration in this course requires filing a petition (see Section 9).
Note 6 A maximum of 9 SH of graduate level course work can be transferred from other institutions. Transfer credit is subject to approval of the Graduate Affairs Committee (GAC) and requires filing a petition (see Section 9). You need to have a grade of at least B in transfer courses. Transfer courses should not have been previously counted towards obtaining a degree.
Note 7 To graduate you must have a cumulative GPA of at least 3.00 with no more than 8 semester hours of grades below B− in all courses applied to the degree.

Step 5 Qualifying Exam: You have to register for and take the qualifying exam in the spring of your first year at Northeastern. If you start your program in the spring semester, or if you are a part-time student, you can postpone the exam until the next spring. Failure to taking the qualifying exam at the time you are supposed to take it is equivalent to failure in the exam. For details see Section 7.
Note 1 PhDCE students take the qualifying exam in Computer Engineering, PhDEE students can take the exam an any of the other four concentration based on their advisor's recommendation.

Note 2 If you do not pass the qualifying exam in your first attempt, you have to retake it the next spring. This will be your last chance to pass the qualifying exam.

Note 3 The outcome of the qualifying exam can be “pass”, “fail”, or “conditional pass”. In this latter case, certain conditions are set to be fulfilled to achieve full pass.

Note 4 After passing the qualifying exam (full passing, or completing all conditions if passed conditionally), your status changes from “Predoctoral Student” to “PhD Candidate”.

Note 5 If you want to do research before achieving PhD candidacy (i.e., before becoming a Ph.D. candidate as explained above), you need to register in EECE 9986 (Research, 0 SH) under your advisor’s name. Registration in this course requires filing a registration override form (see Section 9).

Step 6 You must register in EECE 9990 (Dissertation, 0 SH) for two consecutive semester immediately after passing the qualifying exam.

Note If after two consecutive semesters of taking EECE 9990 you have not yet defended your dissertation (this is very typical), you must register in EECE 9996 (Dissertation Continuation, 0SH) in each fall and spring semester until you successfully defend your dissertation. During the summer semester you are not required to register in EECE 9996, unless you are graduating at the end of that summer (August graduation). If you are graduating in August you need to be registered in EECE 9996 for the entire summer semester.

Step 7 **Ph.D. Committee:** You should form your “PhD Committee” in consultation with your advisor, not later than the last day of the spring semester following the spring in which you passed the qualifying exam. For part-time students this deadline is the last day of the second spring after passing the qualifying exam. This Committee must have at least three members of which at least two must be tenured or tenure-track ECE faculty. After forming the Committee you fill in the PhD Committee Form and submit it. For details, see Section 7.

Step 8 **Dissertation Proposal Review (previously known as “Comprehensive Exam” or “Proposal Defense”):** The date of the Dissertation Proposal Review is determined by your research advisor and PhD Committee. This date is after yo have achieved PhD candidacy, have passed the 16 SH course requirements after MS, and have formed your Ph.D. Committee. It is recommended that the Dissertation Proposal Review be scheduled within two years after passing the qualifying exam. After successful defense of the proposal, you completes the Dissertation Proposal Review Form. This form is signed by your advisor and Ph.D. committee members and is filed with the student services coordinator. If the proposal review is not successful, the Committee submits written recommendations on the direction of the research and arranges a date for future review. For details, see Section 7.
Note 1  The Dissertation Proposal Review consists of a presentation of your research proposal followed by a question/answer session by your Ph.D. Committee. The presentation part of this exam is open to faculty and students.

Note 2  Before the review, you should download the “Dissertation Proposal Review Form” from here and complete it. After the exam, this form is signed by the PhD Committee members. You should then scan the form and save it as a pdf file and email it to Faith Crisley at f.crisley@neu.edu with subject “Dissertation Proposal Review form from XXX ID number YYY”, where XXX is your complete name and YYY is your NUID.

Step 9  **Dissertation Defense:** Dissertation defense is the last stage in PhD requirements. The dissertation defense consists of a presentation of your research results followed by a question/answer session by your Ph.D. Committee. The presentation part of this exam is open to faculty and students. The dissertation defense must be scheduled not sooner than six months after the date of the dissertation proposal review. For details, see Section 7.

Step 10  **Residency Requirement:** You need to be registered full-time at NU for at least two semesters after candidacy to be eligible for your degree. The two summer half-semesters count as a full semester. For part-time Ph.D. students, four semesters of part-time registration fulfills the residency requirement.

Step 11  You graduate when you have successfully defended your dissertation and fulfilled your course and residency requirements.

For more details on stages and deadlines for PhD students see Section 7.
6 Checklist for PhD Students with no MS Degree

Step 1 Make sure that you know your assigned academic advisor and consult with him/her regularly. It is essential that you meet your academic advisor prior to the registration period for each semester and review your course selection with him/her.

Step 2 Plan a program of study for your degree in consultation with your academic advisor. Make sure that all prerequisites are taken before the time you plan to register in a course (for course description and pre-requisites see here).

Step 3 If you do not already have a research advisor, talk to the ECE faculty about their research interests and find a research advisor whose area matches your interests and background. Your research advisor can be any tenured, tenure-track, affiliated, or adjunct ECE faculty. After finding a research advisor, he/she will be your academic advisor as well (if your research advisor is not a tenured/tenure-track ECE faculty, your originally assigned academic advisor will continue to serve as your academic advisor). The deadline for finding a research advisor is one year after your matriculation at NEU.

Step 4 Course Requirements: You need to satisfy the requirements of MSC or MST, plus the course requirements for PhD students with MS. Please refer to the corresponding sections in this document for details.

Note 1 The decision on whether you should follow the requirements of MST or MSC is made in consultation with your research advisor.

Note 2 After completing the requirements for MST or MSC, if interested, you can file a petition to receive an MSECE degree. Please produce a list of the courses that you want to count towards your MS degree and attach the list to your petition.

Step 5 Qualifying Exam, Dissertation Proposal Review, Dissertation Defense: These requirements are similar to those on “Checklist for PhD Students with MS Degree”. Please refer to pages 9-11.

For more details on stages and deadlines for PhD students see Section 7.
7 Stages and Deadlines in the PhD Program

The ECE PhD programs (PhDEE and PhDCE) have certain course and dissertation requirements. The course requirements depend on whether the student matriculates with a BS degree or with an MS degree. These requirements are at least 16 SH of graduate-level courses for those matriculating with MS and 40 or 48 SH for those matriculating with BS; depending on whether they complete an MS thesis or not. The details of the PhD course requirements are given on pages 9–12.

The purpose of this section is to present procedures and deadlines, beyond the course requirements, needed to complete the ECE PhD degrees. These requirements are:

1. Passing the qualifying exam
2. Finding a research advisor and completing and filing the PhD Research Advisor Form
3. Forming the Ph.D. committee and filing the PhD Committee Form
5. Defending the dissertation and filing it with the GSE

7.1 The Qualifying Exam

All Ph.D. students holding an MS degree who matriculate in fall are required to take the qualifying exam the first time it is offered (in spring). Students matriculating in fall with a BS degree, all students matriculating in spring, and all part-time students matriculating in fall can choose to take the qualifying exam in their second spring at NU. Part-time students matriculating in spring can take the exam in their third spring semester at NU. Under extenuating circumstances students can petition to delay their qualifying exam only once. This petition should be filed at least one month before the time the student is supposed to take the exam. Failure to take the qualifying exam on time is considered as failure in the exam.

PhDCE students take the QE in Computer Engineering; PhDEE students can take the exam in one of the four concentrations of CCSP, EMPO, MSMD, and POWR, depending on their research focus. Students who fail the QE in their first attempt have one more chance to take the exam and must take it the first time it is administered after their first attempt. The result of the QE can be “pass”, “fail”, or “conditional pass”. If a student passes the QE conditionally, a set of conditions and corresponding deadlines are set to be achieved by him/her to fully pass the QE. Upon full passing of the QE, the status of the student changes from “Predoctoral Student” to “PhD Candidate”. After achieving Ph.D. candidacy, the student must register in “PhD Dissertation” in two consecutive semesters.

To register in the qualifying exam, please download and complete the PhD qualifying exam registration form from here and follow the instructions.

7.2 Finding a Research Advisor

A student has formally a research advisor when the PhD Research Advisor Form is completed, signed by the student and the advisor, and filed with the students services coordinator of the ECE department. The research advisor can be any tenured, tenure-track, affiliated, or adjunct ECE faculty. All PhD students must have a research advisor within one calendar year after their matriculation at
NU; otherwise, their status changes to MS course-only track. If, after change of status, these students can find a research advisor, their status will be reset to PhD.

After finding a research advisor, please complete and submit the research advisor form found here.

### 7.3 Forming the Ph.D. Committee

The Ph.D. committee must have at least three members, of which at least two must be tenured or tenure-track ECE faculty. After forming this committee a PhD Committee Form is completed, signed by the advisor, the Committee members, and the student, and is filed with the students services coordinator. This form can be found here. The deadline for filing this form is the last day of the spring semester following the spring semester in which the qualifying exam was passed (full, or conditional); however, it is strongly recommended that the students form their Ph.D. committee by the end of the fall semester after passing their qualifying exam. For part-time students this deadline is the last day of the second spring semester after passing the qualifying exam.

The composition of the P.D. committee can change as a result of availability of faculty, change in the direction of research, etc. After each change in the Ph.D. committee, a new PhD Committee Form should be filed.

### 7.4 Dissertation Proposal Review

For the dissertation proposal review, the student prepares a written research proposal and presents it orally. The presentation is open to the faculty and the students and is followed by a closed question/answer session by the Ph.D. committee. The form to announce the presentation can be found here. The main factors considered by the committee in reviewing the proposal are:

1. Merit of the proposed research as a PhD dissertation
2. Substantial evidence of progress in research
3. Knowledge of general area of research and related work
4. Ability of oral presentation of the results and answering questions related to the proposal

The date of the Dissertation Proposal Review is determined by the research advisor and the student’s Ph.D. committee. This date is after the student has achieved Ph.D. candidacy, has passed the 16 SH course requirements after MS, and has formed his/her Ph.D. Committee. It is highly recommended that the Dissertation Proposal Review be scheduled within two years after passing the qualifying exam.

After successful defense of the proposal, the student completes the Dissertation Proposal Review Form. This form is signed by the advisor and the Ph.D. committee and is filed with the student services coordinator. If the proposal review is not successful, the Ph.D. committee submits written recommendations to the student on the direction of the research and arranges a date for a future review.
7.5 Dissertation Defense

Dissertation defense must be scheduled not sooner than six months after the date of the dissertation proposal review. The form to announce dissertation defense can be found here. \LaTeX{} templates for preparing PhD dissertation can be found here.

The deadlines outlined above are applicable to all students matriculating in fall 2015 and after. The students matriculating before fall 2015 who have already passed the qualifying exam, must file the PhD Research Advisor Form and the PhD Committee Form by the last day of spring semester 2016.
8 The PhD Annual Review

All PhD students are reviewed annually starting with their second year at the ECE Department. The review process is carried out by the student’s “Ph.D. Committee”. Before the review process, the student completes a form and submits a one page report of his/her progress during the past year. The committee, based on the recommendation of the advisor, and its own review of the student’s progress, evaluates the performance of the student and each committee member gives the student a grade of “excellent”, “satisfactory”, or “unsatisfactory”. The PhD annual review form can be found here.

If the committee deems necessary, it can provide more detailed feedback and set goals to be achieved by the student in the next year. The scores and the reports of the committee are filed with the students services coordinator. If the student receives two or more unsatisfactory grades, a meeting with the student is scheduled to provide the necessary feedback and set goals for next year.

Students who receive two or more “unsatisfactory” grades from the committee members in two consecutive years are terminated from the PhD program unless they can find another advisor by the end of the spring semester of the review year.

The deadline for students' reports to their committees is the last day of September and the Committees' reports to the students services administrator are due by the end of October. Students who have not yet formed their Ph.D. committee are reviewed by three-member committees assigned by the GAC.
9 Petition and Registration Override Procedures

Please note the following:

1. Petitions/overrides for taking courses must be filed and approved BEFORE registration in the course.

2. Filing a petition/override does not mean that it will be approved, you need to receive the approval to go ahead.

3. Please file your petitions/overrides well in advance. Processing a petition/override takes at least 5 business days.

4. When submitting your petition/override make sure it is completed and signed by you and has the signatures of your academic advisor (and the instructor, if needed).

5. All petitions/overrides must be submitted with a pdf copy of your current transcripts.

6. The only acceptable format for petitions/overrides and transcripts is PDF. Other formats like JPEG, PNG, etc. are not acceptable.

Here are the steps for filing petitions/overrides:

1. To file a petition:
   (a) Download the petition form from here.
   (b) Complete the form. Sign it and get your advisor's signature. A petition must have your and your advisor's signature to be processed.
   (c) Scan the signed petition and save it as a pdf file.
   (d) Download a copy of your current transcripts and save it as a pdf file.
   (e) Send both pdf files to Faith Crisley at f.crisley@neu.edu in a single email. The subject of your email should be "Petition by XXX NUID YYY", where XXX is your complete official name (first and last name as appears on your transcripts) and YYY is your NUID number. Make sure that you send your email from your husky email account.

2. To file a registration override form (these forms are used to register in courses that have restrictions, for example, EECE7674, EECE7400, EECE8986, EECE9986):
   (a) Download the override form from here.
   (b) Complete the form. Sign it and get your advisor's signature. A form must have your and your advisor's signature to be processed.
   (c) If the form is for pre-requisite waiver, get the signature of the instructor too.
   (d) Scan the signed form and save it as a pdf file.
   (e) Download a copy of your current transcripts and save it as a pdf file.
   (f) Send both pdf files to Faith Crisley at f.crisley@neu.edu in a single email. The subject of your email should be “registration override Form by XXX NUID YYY”, where XXX is your complete official name (as appears on your transcripts) and YYY is your NUID number. Make sure that you send your email from your husky email account.
3. If you want to register in a CS class and you find the course is closed, you need to send an email
to Danielle DiFazio at d.difazio@neu.edu. She will help you to override registration limitation
or will add your name to the course waiting list.
10 Probation Policies and Procedures

For details please refer to the College of Engineering website at Probation Policies

11 Coop and Internship Policies and Procedures

Both coop and internship allow students to integrate a practical learning experience into their graduate program.

Internship is an option for PhD and MST students to provide them with work experience that is directly related to their research topic. Internship provides the opportunity to further the students' training and knowledge in an area central to advancement of their research.

Coop is available to all graduate students (MSC, MST, and PhD) and its goal is to provide students with actual work experience in their field of study and need not be research oriented (though it often is).

11.1 Eligibility and Requirements

Coop:

1. All full-time MSC students who:
   - Have finished at least two semesters of graduate work at Northeastern
   - Have taken and passed the EECE 6000 course (Introduction to Coop)
   - Have a GPA of 3.4 or higher
   - Have a TOEFL score of at least 90
   - Have passed at least 16 SH and at most 24 SH of course work (including any transfer credits).

   are eligible to apply for coop.

2. All full-time MST and PhD students who, in addition to the conditions listed above for MSC students, have a research advisor and their research advisor has approved their participation in coop are eligible to apply for coop.

3. During coop the student must be registered in EECE 6964 (Coop Work Experience, 0 SH) to maintain full-time status.

   For more information on eligibility for coop, please see this link coop eligibility.

Internship:

1. All MST and PhD students who have a research advisor and their research advisor has approved their participation in internship are eligible to apply.

2. During internship the student must be registered in one of the following courses (or course combinations) to maintain full-time status:
   (a) EECE 9990 (PhD Dissertation, 0 SH)
   (b) EECE 9996 (PhD Dissertation Continuation, 0 SH)
   (c) EECE 9986 (PhD Research, 0 SH)
11.2 Duration and Timeline

The total duration of coop and/or internship cannot exceed twelve months over the length of the entire degree program.

The starting and ending dates of an internship can be at any time during the student’s degree program, except during their last semester at Northeastern. A coop work experience, however, must match the Northeastern academic calendar, and as such will be over the summer or during a semester, or a combination thereof.

11.3 How to Apply for Coop and Internship

1. Coop application for MSECE (course-only track) students:
   (a) Download the coop application form here. Complete and sign the form and email it to Professor Kent at g.kent@neu.edu early in the semester before you plan to do a coop.
   (b) When you have received an offer of employment, download Form 152 from here. Complete the student part of Form 152 and set up an appointment to meet with your coop advisor, Prof. Kent, g.kent@neu.edu to get approval.
   (c) When meeting with your coop advisor, make sure to bring a copy of your transcripts.

2. Coop application for MSECE (thesis track) and PhD students:
   (a) Download the coop application form from here. Complete, sign the form, and have your research advisor sign it, then email it as a pdf file to Professor Kent at g.kent@neu.edu early in the semester before you plan to do a coop.
   (b) When you have received an offer of employment, download Form 152 from here. Complete the student part of Form 152 and set up an appointment to meet with your coop advisor, Prof. Kent, g.kent@neu.edu to get approval.
   (c) When meeting with your coop advisor, make sure to bring a copy of your transcripts.

3. Internship application for MSECE (thesis) and PhD students:
   (a) Download Form 105 and, if needed, Form 133 from here.
   (b) Complete and sign the forms
   (c) Have your research advisor sign the forms
   (d) Save the forms as pdf and email to Faith Crisley at f.crisley@neu.edu. The subject of the email should be “Internship petition from XXX NUID YYY” where XXX and YYY are substituted with student’s full name and NUID number, respectively.
   (e) Take the forms to the Graduate School of Engineering (GSE), 130 SN for processing
12 Policies and Procedures for Course Transfer

Graduate students can transfer a maximum of 9 SH (or equivalent) course work from other institutions. 4 SH of course work is defined as 45 hours of lecture. For credit transfer from other institutions, the following conditions must be satisfied:

1. Student should have a grade at least B (or equivalent) in the course.
2. The course must be passed during the past seven years.
3. The course should not be part of the requirements of a degree received by the student in the past.
4. The course will be reviewed by the Graduate Affairs Committee and should be approved as equivalent to a graduate-level Northeastern course that students can take as part of their degree program.

The process for transfer credit requires filing a petition (see Section 9). The petition should be accompanied by the detailed syllabus of the course (including textbook information) and the equivalent NU course as well as sufficient evidence that the course has not been part of the requirements of a degree received by the student.
13 Policies and Procedures for Requesting Changes in the Graduate Program

In general, changes to the graduate program are possible after completing at least one semester at Northeastern. This gives the students an opportunity to get accurate information about each program in order to make an informed decision. The only request for change in the program that is accepted during the first semester is change from full-time to part-time or from part-time to full-time. This change does not apply to those who hold an F-1 student visa.

1. Change from FT to PT or PT to FT. This is the only change that can be petitioned during the first semester. To request this change you need to file a petition as explained in Section 9. FT PhD students cannot change to PT before having a research advisor.

2. Change of concentration for MS students: To apply for change of concentration, a minimum cumulative GPA of 3.00 is required. You need to file a petition (see Section 9) after you have been at least one semester at Northeastern. If you are a thesis-course student (MST) you also need to request an email or a letter from a faculty in your destination concentration sent to Faith Crisley in which it is clearly stated that he/she will be your thesis advisor. Change of concentration petitions are reviewed by the Graduate Affairs Committee and approved or rejected.

3. Change from MST to MSC: This is done by filing a petition (see Section 9) after finishing at least one semester at NU.

4. Change from MSC to MST: In addition to filing a petition (see Section 9) you need the approval of an ECE faculty to be your thesis advisor. To do this, the faculty should send an email or letter to Faith Crisley clearly stating that he/she would be your thesis advisor.

5. Change from PhDEE to PhDCE or from PhDCE to PhDEE: This is done by filing a petition (see Section 9) if as a result of this change your research advisor does not change. If this change is the result of change in your research advisor, in addition to filing a petition, you need to file a new PhD Research Advisor Form too.

6. Change from Ph.D. to MS: This is done by filing a petition (see Section 9). Approval of your research advisor is required in filing the petition.

7. Change from MS to PhD: This cannot be done by filing a petition. Students have to apply for the PhD program as a new student. If an ECE faculty is willing to be your PhD advisor, please ask him/her to write a recommendation letter for you.
<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Grading</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>EECE 7400*</td>
<td>Special Problems in EE</td>
<td>1-4 SH</td>
<td>A to C− or F</td>
<td>Can be taken for up to 4 SH in the MSECE and up to 4 SH in the PhD program. Usually taken as 4 SH.</td>
</tr>
<tr>
<td>EECE 7674*</td>
<td>Master's Project</td>
<td>4 SH</td>
<td>IP (in progress) if not completed in one semester; otherwise A to C− or F</td>
<td></td>
</tr>
<tr>
<td>EECE 7990</td>
<td>Master's Thesis</td>
<td>4 or 8 SH (usually two semesters, 4 SH in each)</td>
<td>IP before defense, after defense changed to A to C− or F.</td>
<td>8 SH total, can be taken in one or two semesters.</td>
</tr>
<tr>
<td>EECE 7996</td>
<td>Master's Thesis Continuation</td>
<td>0 SH</td>
<td>S/U (satisfactory or unsatisfactory)</td>
<td>For students who, after taking 8 SH of EECE 7990, have not yet defended their MS thesis. This course maintains FT** status.</td>
</tr>
<tr>
<td>EECE 8986*</td>
<td>(MS) Research</td>
<td>0 SH</td>
<td>S/U</td>
<td>For MSECE project students who, after taking 4 SH of EECE 7674, have not yet finished their project. This course maintains FT** status.</td>
</tr>
<tr>
<td>EECE 9986*</td>
<td>(PhD) Research</td>
<td>0 SH</td>
<td>S/U</td>
<td>For PhD students who have not fully passed the qualifying exam but want to do research. Also PhD students who commence the program in summer should register in this course. This course maintains FT** status.</td>
</tr>
<tr>
<td>EECE 9990</td>
<td>Dissertation</td>
<td>0 SH</td>
<td>S/U</td>
<td>Taken in two consecutive semesters after fully passing the qualifying exam. This course maintains FT** status.</td>
</tr>
<tr>
<td>EECE 9996</td>
<td>Dissertation Continuation</td>
<td>0 SH</td>
<td>S/U</td>
<td>For PhD students that after taking two semesters of EECE 9990 have not yet defended their dissertation. This course maintains FT** status.</td>
</tr>
</tbody>
</table>

See next page for details
Please note the following:

- During internship students must be enrolled in one of the following courses or course combinations:
  1. EECE 9990 (PhD Dissertation, 0 SH, FT** Equivalent)
  2. EECE 9996 (PhD Dissertation Continuation, 0 SH, FT** Equivalent)
  3. EECE 9986 (PhD Research, 0 SH, FT** Equivalent)
  4. EECE 8986 (Master’s Research, 0 SH, FT** Equivalent)
  5. EECE 7990 (Master’s Thesis, 4 SH) and EECE 8986 (Master’s Research, 0 SH, FT** Equivalent)
  6. EECE 7996 (Master’s Thesis Continuation, 0 SH, FT** Equivalent)

- Students on Coop must be enrolled in EECE 6964 (Coop Work Experience, 0 SH, FT** Equivalent).

- During the summer terms, registration in these courses is for full summer not summer 1 or 2.

- Continuing PhD students who have passed two semesters of EECE 9990 (PhD Dissertation) must be registered in EECE 9996 (PhD Dissertation Continuation, 0 SH, FT Equivalent) in all fall and spring semesters until they graduate. They do not need to register in this course in summer unless they are graduating in August of that summer. If they are graduating in August, they have to register in this course for the entire summer semester.

(*) You need to file a registration override form for this course. Please see Section 9. This process needs to be repeated each semester and for all starred courses.

(**) Registering in this course is equivalent to registering full-time.
15 Depth and Excluded Courses

15.1 Depth Courses for Communication, Control, and Signal Processing

EECE 5576 Wireless Communication Systems 4 SH
EECE 5580 Classical Control Systems 4 SH
EECE 5610 Digital Control Systems 4 SH
EECE 5639 Computer Vision 4SH
EECE 5642 Data Visualization 4SH
EECE 5664 Biomedical Signal Processing 4SH
EECE 5666 Digital Signal Processing 4SH
EECE 5626 Image Processing and Pattern Recognition 4SH
EECE 5644 Introduction to Machine Learning and Pattern Recognition 4SH
EECE 5698 Special Topics: Mobile Robotics 4SH
EECE 7200 Linear Systems Analysis 4 SH
EECE 7203 Complex Variable Theory and Differential Equations 4 SH
EECE 7204 Applied Probability and Stochastic Processes 4 SH
EECE 7211 Nonlinear Control 4 SH
EECE 7213 System Identification and Adaptive Control 4 SH
EECE 7214 Optimal and Robust Control 4 SH
EECE 7242 Integrated Circuits for Communications and Analog Signal Processing 4 SH
EECE 7245 Microwave Circuit Design for Wireless Communications 4 SH
EECE 7293 Modern Imaging 4 SH
EECE 7310 Modern Signal Processing 4 SH
EECE 7311 Two Dimensional Signal and Image Processing 4 SH
EECE 7312 Statistical and Adaptive Signal Processing 4 SH
EECE 7313 Pattern Recognition 4 SH
EECE 7315 Digital Image Processing 4 SH
EECE 7323 Numerical Optimization Methods 4 SH
EECE 7332 Error Correcting Codes 4 SH
EECE 7334 Wireless Communications 4 SH
EECE 7335 Detection and Estimation Theory 4 SH
EECE 7336 Digital Communications 4 SH
EECE 7337 Information Theory 4 SH
EECE 7364 Mobile and Wireless Networking 4 SH
EECE 7364 Advanced Computer Vision 4 SH
EECE 7393 Analysis and Design of Data Networks 4 SH
EECE 7397 Advanced Machine Learning 4SH
15.2 Depth Courses for Computer Engineering

ECE Courses
EECE 5626 Image Processing and Pattern Recognition 4SH
EECE 5627 Arithmetic and Circuit Design for Inexact Computing 4SH
EECE 5639 Computer Vision 4SH
EECE 5640 High Performance Computing 4SH
EECE 5642 Data Visualization 4SH
EECE 5643 Simulation and Performance Evaluation 4SH
EECE 5644 Introduction to Machine Learning and Pattern Recognition 4SH
EECE 5698 Special Topics in Software Security 4SH
EECE 5698 Special Topics: Mobile Robotics 4SH
EECE 7205 Fundamentals of Computer Engineering 4 SH
EECE 7240 Analog Integrated Circuit Designs 4 SH
EECE 7313 Pattern Recognition 4 SH
EECE 7332 Error Correcting Codes 4 SH
EECE 7334 Wireless Communications 4 SH
EECE 7352 Computer Architecture 4 SH
EECE 7353 VLSI Design 4 SH
EECE 7357 Fault-Tolerant Computers 4 SH
EECE 7360 Combinatorial Optimization 4 SH
EECE 7364 Mobile and Wireless Networking 4 SH
EECE 7368 High Level Design of Hardware Software Systems 4 SH
EECE 7370 Advanced Computer Vision 4 SH
EECE 7374 Fundamentals of Computer Networking 4SH
EECE 7375 Compilers for Modern Architecture 4SH
EECE 7376 Operating Systems 4SH
EECE 7390 Computer Hardware Security 4SH
EECE 7393 Analysis and Design of Data Networks 4 SH
EECE 7394 Network and System Security 4SH
EECE 7397 Advanced Machine Learning 4SH
EECE 7398 Special Topics: Probabilistic System Modeling and Analysis 4 SH
EECE 7398 Special Topics: Human Centered Computing 4SH
Mathematics Courses
MATH 7232 Combinatorial Analysis 4 SH
MATH 7233 Graph Theory 4 SH

CCIS Courses (subject to space availability, offering and approval from CCIS)
CS 5100 Foundations of Artificial Intelligence 4 SH
CS 5200 Database Management Systems 4 SH
CS 5310 Computer Graphics 4 SH
CS 5340 Computer-Human Interaction 4 SH
CS 5400 Principles of Programming Languages 4 SH
CS 5500 Managing Software Development 4 SH
CS 5600 Computer Systems 4 SH
CS 5770 Software Vulnerabilities and Security 4 SH
CS 6110 Knowledge-based Systems 4 SH
CS 6200 Information Retrieval 4 SH
CS 6310 Computational Imaging 4 SH
CS 6410 Compilers 4 SH
CS 6510 Advanced Software Development 4 SH
CS 6520 Methods of Software Development 4 SH
CS 6530 Analysis of Software Artifacts 4 SH
CS 6540 Foundations of Formal Methods and Software Analysis 4 SH
CS 6610 Parallel Computing 4 SH
CS 6740 Network Security 4 SH
CS 6750 Cryptography and Communication Security 4 SH
CS 6760 Privacy, Security and Usability 4 SH
CS 6810 Distributed Algorithms 4 SH
CS 7800 Advanced Algorithms 4 SH

15.3 Depth Courses for Electromagnetics, Plasma, and Optics
EECE 5648 Biomedical Optics 4 SH
EECE 5694 EM and Photonic Devices 4 SH
EECE 5695 RF and Optical Antennas 4 SH
EECE 5697 Acoustics and Sensing 4 SH
EECE 7105 Optics for Engineers 4 SH
EECE 7202 Electromagnetic Theory 1 4 SH
EECE 7203 Complex Variable Theory and Differential Equations 4 SH
EECE 7245 Microwave Circuit Design for Wireless Communication 4 SH
EECE 7270 Electromagnetic Theory 2 4 SH
EECE 7271 Computational Methods in Electromagnetics 4 SH
EECE 7275 Antennas and Radiation 4 SH
EECE 7276 Microwave Properties of Materials 4 SH
EECE 7284 Optical Properties of Matter 4 SH
EECE 7285 Optoelectronics and Fiber Optics 4 SH
EECE 7287 Optical Detection 4 SH
EECE 7293 Modern Imaging 4 SH
EECE 7295 Applied Magnetism 4 SH
EECE 7296 Electronic Materials 4 SH
EECE 7297 Advanced Magnetic Materials 4 SH
EECE 7295 Magnetic Materials Fundamentals and Measurements 4 SH
EECE 7309 Special Topics in Electromagnetics, Plasma, Optics 4 SH

15.4  **Depth Courses for Microsystems, Materials, and Devices**

EECE 5606 Micro- and Nanofabrication 4 SH
EECE 5647 Nanophotonics 4 SH
EECE 5648 Biomedical Optics 4 SH
EECE 5649 CMOS Analog Integrated Circuits 4 SH
EECE 5680 Electric Drives 4 SH
EECE 5696 Energy Harvesting Systems 4 SH
EECE 7201 Solid State Devices 4 SH
EECE 7240 Analog Integrated Circuit Design 4 SH
EECE 7241 Advanced Solid State Devices 4 SH
EECE 7242 Integrated Circuits for Communications and Analog Signal Processing 4 SH
EECE 7243 Integrated Circuit Fabrication 4 SH
EECE 7244 Introduction to Microelectromechanical Systems (MEMS) 4 SH
EECE 7245 Microwave Circuit Design for Wireless Communication 4 SH
EECE 7246 Design and Analysis of Digital Integrated Circuits 4 SH
EECE 7247 Radio Frequency Integrated Circuit Design 4 SH
EECE 7353 VLSI Design 4 SH
EECE 7276 Microwave Properties of Materials 4 SH
EECE 7284 Optical Properties of Matter 4 SH
EECE 7398 Special Topics in Magnetic Materials 4 SH
15.5 **Depth Courses for Power Systems, Power Electronics, and Motion Control**

- EECE 5580 Classical Control Systems 4 SH
- EECE 5610 Digital Control Systems 4SH
- EECE 5666 Digital Signal Processing 4SH
- EECE 5682 Power System Analysis 1 4SH
- EECE 5684 Power Electronics 4SH
- EECE 5686 Electrical Machines 4SH
- EECE 5688 Analysis of Unbalanced Power Networks 4SH
- EECE 5694 Numerical Optimization 4SH
- EECE 5696 Energy Harvesting Systems 4 SH
- EECE 7200 Linear System Analysis 4SH
- EECE 7211 Nonlinear Control 4SH
- EECE 7212 Multivariable Control Systems 4SH
- EECE 7213 System Identification and Adaptive Control 4SH
- EECE 7214 Optimal and Robust Control 4SH
- EECE 7220 Power System Analysis 2 4SH
- EECE 7221 Power Systems Operation and Control 4SH
- EECE 7323 Numerical Optimization Methods 4SH
- EECE 7224 Power System State Estimation 4SH
- EECE 7226 Modeling of Transients in Power Systems 4SH
- EECE 7236 Special Topics in Control 4SH
- EECE 7237 Special Topics in Power Electronics 4SH
- EECE 7238 Special Topics in Electric Drive 4SH
- EECE 7239 Special Topics in Power Systems 4SH
- EECE 7325 Special Topics in Signal Processing 4SH
- EECE 7335 Detection and Estimation 4SH
- ENGR 5670 Sustainable Energy 4SH

15.6 **Breadth Course for All Concentrations**

The following course can be taken as breadth for all concentration but cannot be taken as depth for any concentration

- EECE 7399 Preparing High Stakes Written and Oral Materials

15.7 **Excluded Courses for All Concentrations**

- CS 5010 Programming Design Paradigm 4SH
- CS 5320 Digital Image Processing 4SH
CS 5330 Pattern Recognition and Computer Vision 4SH
CS 5520 Mobile Application Development 4SH
CS 5610 Web Development 4SH
CS 5700 Computer Networks 4SH
CS 5800 Algorithms 4SH
CS 6350 Empirical Research Methods 4SH
CS 6120 Natural Language Processing 4SH
CS 6710 Wireless Networks 4SH

In addition to these courses, all courses offered by the Professional Masters Programs (Computer Systems Engineering, Energy Systems, Engineering Management, Information Systems, Sustainable Building Systems, and Telecommunications Systems Management) are also excluded, except those explicitly listed under “Depth Courses” of one of the ECE concentrations.
16  Depth Courses for New Concentrations (Effective spring 2016)

16.1  Depth Courses for Computer Systems and Software (CSSW)
EECE 5627 Arithmetic and Circuit Design for Inexact Computing 4SH
EECE 5640 High Performance Computing 4SH
EECE 5643 Simulation and Performance Evaluation 4SH
EECE 7205 Fundamentals Computer Engineering 4SH
EECE 7352 Computer Architecture 4SH
EECE 7353 VLSI Design 4SH
EECE 7357 Fault Tolerant Computers 4SH
EECE 7360 Combinatorial Optimization 4SH
EECE 7390 Computer Hardware Security 4SH
EECE 7376 Operating Systems: Interface and Implementation 4SH
EECE 7368 High-Level Design of HW/SW Systems 4SH
EECE 7375 Compilers for Modern Architectures 4SH
EECE 7398 Special Topics: Advanced Computer Architecture 4SH
CS 5200 Database Systems Management 4SH
CS 6410 Compilers 4SH

16.2  Depth Courses for Computer Networks and Security (CNWS)
EECE 5576 Wireless Communication Systems 4SH
EECE 5640 High Performance Computing 4SH
EECE 5698 Special Topics: Networks: Technology, Economics, Social Interactions 4SH
EECE 5698 Special Topics in Software Security 4SH
EECE 5645 Introduction to Software Security 4SH
EECE 7204 Applied Probability and Stochastic Processes 4SH
EECE 7205 Fundamentals Computer Engineering 4SH
EECE 7352 Computer Architecture 4SH
EECE 7364 Mobile and Wireless Networking 4SH
EECE 7360 Combinatorial Optimization 4SH
EECE 7393 Analysis and Design of Data Networks 4SH
EECE 7390 Computer Hardware Security 4SH
EECE 7374 Fundamentals of Computer Networks 4SH
EECE 7398 Special Topics: Probabilistic System Modeling and Analysis 4 SH
EECE 7393 Analysis and Design of Data Networks 4 SH
CS 5700 Fundamentals of Computer Networks 4SH
CS 6754 Secure Wireless Ad-hoc Robots on Mission 1 4SH
CS 7785 Special Topics in Network Science 4SH

16.3 Depth Courses for Computer Vision, Machine Learning, and Algorithms (CVMA)

EECE 5626 Image Processing and Pattern Recognition 4SH
EECE 5639 Computer Vision 4SH
EECE 5640 High Performance Computing 4SH
EECE 5644 Introduction to Machine Learning and Pattern Recognition 4SH
EECE 5642 Data Visualization 4SH
EECE 5698 Special Topics: Mobile Robotics 4SH
EECE 7204 Applied Probability and Stochastic Processes 4SH
EECE 7205 Fundamentals Computer Engineering 4SH
EECE 7313 Pattern Recognition 4SH
EECE 7323 Numerical Optimization Methods 4SH
EECE 7352 Computer Architecture 4SH
EECE 7360 Combinatorial Optimization 4SH
EECE 7370 Advanced Computer Vision 4SH
EECE 7397 Advanced Machine Learning 4SH
EECE 7398 Special Topics: Human Centered Computing 4SH
17 Useful Links

• General Information Links

  1. ECE Department website
  2. ECE Graduate Studies website
  3. Graduate School of Engineering
  4. Course Descriptions and Prerequisites
  5. COE Coop Eligibility Page
  6. COE Probation Policies
  7. Gordon Leadership Program
  8. Registrar’s Office
  9. Official University Calendar
 10. NU 2015-16 Graduate Catalog
 11. Academic Integrity Policies
 12. Code of Student Conduct
 13. University Health and Counseling Services
 14. NU Graduate Students Government

• Links to Forms

  1. Petition Form
  2. Registration Override Form
  3. Coop Application Form
  4. PhD Annual Review Form
  5. Qualifying Exam Registration Form
  6. PhD Research Advisor Form
  7. PhD Committee Form
  8. Dissertation Proposal Review Form
 10. \LaTeX\ templates for MS thesis and PhD dissertation
 11. Various ECE Forms
 12. Various Graduate School of Engineering Forms
 13. ISSI Forms