

GRADUATE STUDENT MANUAL

Agricultural and Biological Engineering Department

Degrees through the College of Engineering

**Frazier Rogers Hall
University of Florida
Gainesville, Florida 32611
(352) 392-1864
www.abe.ufl.edu
Updated Fall 2011**

Table of Contents

Contact Information.....	4
Introduction	5
Admissions Policy	5
Academic Advisor and Supervisory Committee.....	6
Plan of Study	7
Transfer of Credit	8
Concurrent Graduate Programs:	9
Time Limitation.....	9
Research Project Proposal	9
Requirements for Master of Engineering and Master of Science Degrees	10
Thesis/Nonthesis Option.....	10
Major Area.....	10
Minor Area (optional).....	10
Requirements for the Doctor of Philosophy Degree	11
Major Area.....	11
Minor Area (optional).....	11
Grade Point Requirements for Graduation	12
Registration.....	12
Dropping Courses	12
TABLE 1. Minimum Registration Requirements	12
Tuition and Financial Aid.....	13
Campus Residency Requirement	13
Normal Progress	13
Graduate Seminar Course and Departmental Seminars	14
Thesis and Dissertation.....	14
Thesis and Dissertation Deadlines	14
Qualifying Examination for PhD Degree	15
Final Examinations	15
Master of Engineering and Master of Science, Thesis Option.....	15
Master of Engineering and Master of Science, Nonthesis Option	16
PhD Degrees	16
Foreign Language Requirements	16
Administrative Policies.....	16
Policy on Graduate Student Support.....	16
Length of Support.....	16
Assistantship Responsibilities	17
Student Evaluations	17
Vacation and Sick Leave	17
Office Assignments	17
Research involving Data Collection using Human or Animal Subjects	18
Research Data, Software, Designs and Manuscripts.....	18
Computer Time and Assistance	18
Purchases and Support.....	18
Use of State Vehicles.....	19
Use of Shop Facilities and Services.....	19
APPENDIX A	20
ABET - Equivalency Requirements for Agricultural and Biological Engineering	20
APPENDIX C.....	21
Lists of Courses for Mathematics Requirement and for Applied Statistics Requirement.....	21
APPENDIX E	23
Summary of Procedures for Master’s Degree.....	23
APPENDIX F	24
Summary of Procedures for PhD Degree.....	24
APPENDIX G	26
Minimum Requirements for COE Graduate Degrees.....	26

APPENDIX H	27
Application for ABE Network Account	27
APPENDIX I	28
Graduation Checklist	28

Contact Information

Throughout this manual references will be made to several people by their position names. The following is current contact information for those positions:

Title	Name	e-mail	Office
Department Chair	Dorota Haman	dhaman@ufl.edu	120
Graduate Coordinator	Ray Bucklin	bucklin@ufl.edu	169
Coordinator of Academic Support Services	Robin Snyder	rsnyder@ufl.edu	116
Research Program Coordinator	Paul Lane	plane@ufl.edu	168
Systems Programmer	Helena Niblack	hnilblack@ufl.edu	241
Senior Fiscal Assistant	Deana Williams	laschelle69@ufl.edu	114
Office Assistant	Tawanna Boykin	boykin@ufl.edu	111

Introduction

This Graduate Student Manual is for the use of graduate students and faculty in the Agricultural and Biological Engineering Department of the University of Florida. It contains policies, regulations and suggestions applicable to making students' graduate programs mutually beneficial to the students and to the department. Our department offers graduate degrees in two colleges, the College of Engineering and the College of Agricultural and Life Sciences. This volume of the manual covers degrees offered through the College of Engineering.

The graduate programs offered through the College of Engineering for Agricultural and Biological Engineering (ABE) majors lead to the Master of Engineering, Master of Science, and Doctor of Philosophy degrees. The Master of Engineering and Master of Science degrees are intended for students who have completed an undergraduate degree and desire to further their technical and analytical skills. The PhD. degree is an advanced graduate degree for engineering students who wish to pursue a career in education or research. The department offers a combined BS and MS degree program, which allows qualified students to earn both a bachelor's degree and a master's degree with a savings of one semester. Qualified students can begin their master's program while a senior and count up to 12 hours of graduate courses for both bachelor's and master's degree requirements.

The Graduate Catalog (The University Record, University of Florida, Graduate Catalog, <http://gradschool.rgp.ufl.edu/students/catalog.html>) contains additional applicable information. This department manual is intended to supplement rather than duplicate the *Graduate Catalog*. The student should rely on the *Graduate Catalog* as a final authority except where a more stringent requirement may be imposed by the college or department. Students should keep a copy of all *Graduate Catalogs* because they may graduate under the requirements of any one catalog in effect during their enrollment. The requirements stated in the catalog constitute a contract between the university and the student.

An exception or exemption from the policies stated in this manual may, in certain cases, be appropriate. Requests for exception or exemption will be reviewed by the graduate committee when submitted in writing, after approval has been granted by the supervisory committee.

Admissions Policy

General

Admission to a master's degree program requires a 3.00 upper division grade point average (GPA) (based on a 4.00 system) and submission of scores from the Graduate Record Examination (GRE). The minimum requirements for admission into the PhD degree program are a 3.00 upper division undergraduate GPA, 3.25 graduate GPA and submission of scores from the GRE. No student who has failed a qualifying exam or final graduate exam at another University of Florida department will be admitted for graduate study in the Agricultural and Biological Engineering Department.

International students whose native tongue is not English must submit TOEFL (Test of English as a Foreign Language) or IELTS (International English Language Testing System) scores. A minimum score of 80 on the internet-based version, 213 on the computer-based or 550 on the paper-based TOEFL is required. The minimum score for the IELTS is 6.0. Conditional admission may be offered by the departmental graduate committee to students who do not satisfy the admission criteria including the cases of a deficiency in the GRE, TOEFL, IELTS or GPA requirements. A conditionally-admitted student must meet the conditions set forth in his/her admission letter in order that subsequent registration may be allowed.

International students who have spent at least 1 academic year in a baccalaureate or post-baccalaureate degree program at a college or university in a country where English is the official language, are exempt from taking the TOEFL exam if their attendance was in the year immediately prior to UF admission. Students from countries where English is widely spoken are exempt from taking the TOEFL exam. A list of exemptions is on the Graduate School's web site: <http://gradschool.ufl.edu/students/english-testing-exemptions.html>.

The entire application packet of students is considered when admission decisions are made; however, the GRE Score is a very important factor in decisions. English is not the first language of many of our graduate students, so Verbal GRE scores of our current graduate students range from 320 to 720. Quantitative GRE scores of students currently enrolled in Masters programs in the COE range from 570 to 800 with an average of 724. Quantitative GRE scores of students currently enrolled in PhD programs in the COE range from 650 to 800 with an average of 742.

The deadlines for applying for admission to the ABE graduate program are February 15th for applications for the Fall semester and July 1 for applications for the Spring semester. All scores and materials must be received by the stated deadline. Apply as soon as possible to receive full consideration for assistantships and fellowships.

We offer a combined BS/MS or ME degree through which up to 12 credits of graduate courses may be double-counted toward credit fulfillment of the [BS and MS/ME degrees](#). To qualify, the following requirements must be met:

1. Senior status (4EG)
2. Minimum upper division GPA of 3.3
3. Completion of pre-engineering coursework and 20 credit hours of the Engineering College and ABE Department core
4. Acceptable Verbal, Quantitative and Analytical Writing GRE Scores.

It may be possible to substitute required ABE courses with graduate courses; however, the Department's Undergraduate Coordinator must approve such substitutions. Replacement of elective credit within the BS option should be considered first. Please check the undergraduate catalog or contact the Undergraduate Coordinator for qualifications and details.

Admission to the Master of Engineering program normally requires a BS degree in Agricultural and Biological Engineering, or related engineering specialty, from an undergraduate program accredited by ABET (Accreditation Board for Engineering and Technology). If a student desires a Master of Engineering with a major in Agricultural and Biological Engineering but does not have an undergraduate degree that has an ABET-equivalency, then articulation course work should be completed as early as possible in the student's graduate program. The current ABET requirements are given in [Appendix A](#) of this manual. As part of the ABET design requirement, the student will be required to take a minimum of 12 credits of Agricultural and Biological Engineering (ABE) design courses. A student may not be required to meet every requirement; however, exceptions will be made only after a review by the departmental graduate committee. The required articulation work for any graduate degree must be completed with a GPA of at least 3.00.

Admission to the Master of Science degree program in the College of Engineering requires a Bachelor of Science degree including analytic geometry, calculus, differential equations, 8 credits of general physics and 8 credits of general chemistry, or equivalent. Admission does not require an engineering BS degree. However, the student's supervisory committee and the departmental graduate committee may require articulation courses to assure a sufficient background for graduate study.

Admission to the PhD degree program in Agricultural and Biological Engineering requires a BS degree in Agricultural and Biological Engineering or related engineering discipline from an ABET accredited undergraduate program or its equivalent. In most cases, the student must also have earned a master's degree in Agricultural and Biological Engineering or related engineering field or in other physical or life sciences. Exceptional students may be allowed to pursue an engineering PhD directly after the completion of the BS degree.

Academic Advisor and Supervisory Committee

Students will be admitted only after a faculty advisor has been identified to serve as Major Professor and Chair of the student's Supervisory Committee. Prospective students are encouraged to contact ABE faculty in their area of interest.

In addition to the advisor, the student is required to have a supervisory committee consisting of approved graduate faculty members. The advisor will serve as Supervisory Committee Chair. Purposes of the student's supervisory committee are: 1) to guide, inform, and counsel the student; 2) to discuss and approve a plan of study; 3) to discuss

and approve a thesis or dissertation topic and research project proposal; 4) to review progress and provide advice during the student's research; and 5) to conduct the qualification (for PhD students) and final examinations.

For a Master's degree program, the supervisory committee must consist of:

- no fewer than 3 members
- 2 members who are full-time permanent faculty members of the ABE graduate faculty
- 1 member from outside the ABE department (*not required for Non-Thesis Masters*)

For a Ph.D degree program, the supervisory committee must consist of:

- no fewer than 5 members.
- at least 2 members who are full-time permanent faculty members of the ABE graduate faculty
- 1 member who is a full-time permanent faculty member of another UF Engineering department*
- 1 external member (as described below)

All PhD committees are required by the Graduate School to have an external member who is a member of the graduate faculty of another University of Florida department. Faculty members of other departments who are affiliate members of the ABE department cannot serve as the external member required by the Graduate School. Faculty members from other universities cannot serve as the external member required by the Graduate School. In addition, all ABE College of Engineering PhD supervisory committees are required to have one member from another COE department who holds Graduate Faculty status. **The faculty member from the COE can serve as the external member required by the Graduate School if the faculty member does not have formal ties to the ABE Department, such as serving as an affiliate member of the ABE Department.*

Students are encouraged to develop a close working relationship with their advisor and supervisory committee members and to communicate academic and department interests and concerns to them. Each student should schedule at least a one-hour meeting with his/her advisor each week to insure adequate communication.

An effective graduate degree program requires that course work, research and assistantship duties all reinforce the student's educational objectives. To facilitate this coordination, the supervisory committee should be formulated and submitted to the departmental graduate committee for approval during the first semester of study ([see Appendices E and F](#)). A registration hold will be placed on all students not completing their committee as required.

Plan of Study

Each plan of study is unique to the individual student and should meet the student's goals and career objectives as well as being cohesive and concentrated in an area of study. Graduate students and their supervisory committees are expected to complete a plan of study by the beginning of the student's second term in Graduate School ([see Appendices E and F](#)). A plan of study must be submitted to the graduate committee no later than two full terms prior to graduation (master's degree programs) or later than two full terms prior to taking the qualifying examination (PhD degree programs). Each student's plan of study must satisfy all requirements of the Graduate School and the Department as stated in the *Graduate Catalog* and this manual. A registration hold will be placed on all students not completing their plan of study as required.

Graduate credit is awarded for courses numbered 5000 and above. The work in the major field must be in courses numbered 5000 or above. For work outside the major, courses numbered 3000 or above, not to exceed 6 credits, may be taken provided they are part of an approved plan of study. None of the courses below the 5000 level with an ABE, AOM or PKG prefix may be used toward meeting the minimum requirements. No required courses for the BS degree in Agricultural and Biological Engineering may be counted as part of the minimum requirements for students earning a Master of Engineering or PhD degree. Courses in the Agricultural and Biological Engineering Department below the 5000-level and courses required for undergraduate degrees should be included on a plan of study as articulation courses in excess of the minimum requirements.

Templates are available to assist the student in developing a plan of study. These templates can be accessed through the department's web pages (<http://www.abe.ufl.edu/academics/graduate/graduate-manuals/documents/PlanOfStudyForm.doc>). After a plan of study has been approved by the student's supervisory committee, a copy must be submitted with the student's advisor's signature to the departmental graduate committee for final approval.

Since a supervisory committee and plan of study are formulated early in the program, it is likely that a student may wish to change a plan of study, committee, or even an advisor. There should be no hesitancy to make changes that are recognized to be educationally sound. If it becomes necessary to amend an approved plan of study, changes must be approved by the supervisory committee chair and the departmental graduate committee.

Transfer of Credit

Courses Taken as a Graduate Student at another institution:

Courses open only for graduate credit (5000 and above) earned with a grade of A, A-, B+, or B may be transferred from an institution approved for this purpose by the Graduate School. Acceptance of transfer credit requires approval of the student's supervisory committee Chair or the Graduate Coordinator, the college dean, and the Graduate School. Transfer of credit may be considered from course work taken after completion of the undergraduate degree. Transfer coursework must be taken within the 7 years immediately preceding the date that the degree is to be awarded. Courses with "P" or "S" grading cannot be transferred. Transfer hours cannot be split (e.g. 9 hours taken, 8 transferred). A maximum of 9 credit hours may be transferred under the above guidelines as part of a master's program.

For PhD programs, a maximum of 24 course credits and a maximum of 6 research credits can be transferred from a master's program into the PhD plan of study. The course credits transferred must be appropriate to the PhD and be an integral part of the student's plan of study. Follow the procedure below for transfer of credit. An **official** transcript must accompany the supervisory committee's petition requesting acceptance of an international master's degree.

For a PhD program, a maximum of 15 credit hours beyond the master's degree may be transferred in addition to the 30 credit hours allowed for the master's degree.

Courses Taken as an Undergraduate student at UF:

University of Florida undergraduates who subsequently enroll in Graduate School may transfer a maximum of 15 credits of 5000 or 6000 level courses, earned with a grade of A, A-, B+, or B, taken as an undergraduate, provided (1) the courses to be transferred are in excess of the undergraduate degree requirements, and (2) the student had a 3.0 GPA at the time the courses were taken.

Courses Taken as a Graduate student at UF:

For PhD programs, a maximum of 24 course credits and a maximum of 6 research credits can be transferred from a master's program into the PhD plan of study. The course credits transferred must be appropriate to the PhD and be an integral part of the student's plan of study. An **official** transcript must accompany the supervisory committee's petition requesting acceptance of an international master's degree.

For a PhD program, a maximum of 15 credit hours taken at UF beyond the master's degree may be transferred in addition to the 30 credit hours allowed for the master's degree.

Transfer of Credit Request:

Follow the procedure below for transfer of credit.

If a student meets all requirements, the student or faculty advisor must then submit a request to the Academic Services Coordinator to transfer credit. The request must be received by the Graduate School no later than the last day of classes of the first term of graduate study. *An official, final transcript of the student's master's program must be on file at the UF admissions office or the transfer of credit will not be processed.*

Concurrent Graduate Programs:

ABE students interested in pursuing a second master's degree from another department or pursuing a second master's degree from the ABE Department (PKG or AOM) concurrently must obtain written approval from each academic unit and the Graduate School Dean. The student must be officially admitted to both programs through regular procedures. No more than 9 credits from the first program may be applied toward the second. Contact the academic unit(s) for details.

Students currently enrolled in a graduate degree in another department at UF can pursue a concurrent master's degree in the ABE Department. Students must apply for admission to the ABE graduate program and be admitted. Students must have the first department forward the student's application materials to ABE and the student must fill out and obtain appropriate signatures on the Graduate School Concurrent Degree Program Form (<https://gradschool.ufl.edu/pdf-files/concurrent-degree-program-form.pdf>)

Time Limitation

All work, including transferred credits, counted toward the master's degree must be completed during the 7 years immediately preceding the date on which the degree is awarded. All master's degrees counted in the minimum course requirements for a PhD degree must have been earned in the last 7 years.

Research Project Proposal

PhD or master's students (thesis option) are expected to complete and present to their supervisory committee a research project proposal. The proposal serves as a guideline for the student's research. All graduate research projects are expected to include both analytical and experimental components. Copies should be provided for each member of the supervisory committee. After the research proposal has been approved by the student's committee, a copy of the approved proposal must be submitted to the Coordinator of Academic Support Services.

Graduate students are expected to submit a research proposal by the middle of their second term in Graduate School ([see Appendices E and F](#)). A research proposal must be submitted to the Coordinator of Academic Support Services no later than two full terms prior to graduation (master's degree programs) or later than two full terms prior to taking the qualifying examination (PhD degree programs). A registration hold will be placed on all students not completing their research proposal as required. The proposal should include:

1. Cover page with proposed thesis or dissertation title, student's name, degree objective, and names of supervisory committee members. The cover page must be signed by the Supervisory Committee Chair indicating approval of the proposed research by all of the supervisory committee members.
2. Statement of problem - should be in sufficient detail so that its nature, importance, and possible benefits are clear. A brief review of previous pertinent work is appropriate in this section.
3. Objectives should be concise and logical.
4. Procedure - should be sufficiently detailed so that general plans and methods are clear. It is recognized that the development of specific experimental procedures may sometime evolve as the project is pursued. In this case, the process for developing the procedures should be stated.
5. Timetable - should indicate anticipated deadlines for completing various aspects of the research project.

The entire research proposal should be brief (3-5 pages text, plus 1 page for time table, plus additional pages for figures if required). If there is a need for a significant re-direction in the research, then a modified research proposal should be prepared and approved by the supervisory committee

Students must also submit brief (2-3 paragraph) responses to the following questions ON A SEPARATE PAGE and provide or arrange for a picture of self in appropriate lab or field setting. The information may be used to create departmental web profiles of graduate student research projects so answers should be provided in narrative form:

1. Title of Project?
2. How was the project selected?
3. What is the most interesting and/or exciting aspect of the project?
4. How will the research be used (i.e. what is the real-world application)?

Requirements for Master of Engineering and Master of Science Degrees

Each plan of study for master's degree with thesis must have a minimum of 24 course credits plus 6 hours of thesis research for a total of 30 hours. For a nonthesis degree, the minimum requirement is 30 hours of course work. Each plan of study must include a minimum of 6 credits of AOM, ABE or PKG courses at the 5000 level or higher (excluding S/U courses). The plan also must include a minimum of 3 credits of mathematics at the 5000 level or higher. A list of approved math courses is provided in [Appendix C](#).

A master's degree with thesis must include a minimum of 6 credits of thesis research. Additional thesis research credits may be taken to meet minimum registration requirements; however, the additional credits will not count toward meeting the credit hour requirements of the degree. Work in the major field must be in courses numbered 5000 or above. *Statistics courses and courses in the minor field cannot be substituted for departmental major courses (ABE/AOM/PKG)*. For work outside the major, courses numbered 3000 or above, not to exceed 6 credits, may be taken provided they are part of an approved plan of study.

A maximum of 3 credits of ABE 6905 (individual work) may be applied toward the minimum requirements for any single degree. These credits will be considered for approval by the graduate committee only when a description of the course content is filed with the plan of study. The student must obtain approval before taking the course.

Master's students are allowed to take a maximum of 3 credits of supervised teaching (ABE 6940). Supervised teaching credits will be considered for approval by the graduate committee only when a description of the work to be performed is submitted by the supervising faculty with the plan of study. Typically, 20 to 30 hours of work is required to support 1 hour of supervised teaching. Master's students receiving financial support from assistantships, *who enter the ABE graduate program in Fall 2011 and beyond*, are required to include one hour of ABE6940 in their Plans of Study.

Thesis/Nonthesis Option

Masters degree students may choose a nonthesis 30 credit coursework only degree option. Normally, graduate assistantships will not be available to students pursuing nonthesis degrees. The nonthesis plan of study must include a minimum of 15 credits of major courses at the 5000 level or above that defines a meaningful, integrated area of academic concentration. Students may include a design or analysis project in their plan of study by enrolling in a maximum of 3 credits of ABE6905.

All students pursuing Nonthesis degrees are required to present a seminar to their Supervisory Committee in the final semester of their graduate program. The seminar topic should be related to the student's area of interest. The seminar is open to the Department.

A comprehensive written and/or oral examination may also be required at the discretion of the student's committee. If required, the comprehensive examination generally covers academic preparation and basic principles and applications in addition to any design or analysis project report. A final exam can be taken no sooner than two semesters after approval of a student's plan of study and project proposal.

Students who receive financial support from the department during the course of their masters program, are required to prepare publishable reports describing their analysis or research.

Major Area

The plan of study must include a minimum of 12 credits (15 credits for a nonthesis degree) of major courses at the 5000 level or above which defines a meaningful, integrated area of academic concentration. The minimum number of ABE credits is 6 (excluding ABE 6905, ABE 6974, ABE 6940, ABE 6971 and PKG 6905). One hour of seminar (ABE 6931) must be included in the major.

Minor Area (optional)

A minor consists of a minimum of 6 hours of course work in a focused area related to the field of major study. Course work in the minor for the master's degree is not limited to the course offerings of one department, provided that the minor has a clearly stated objective. The combination of courses selected for the minor must be planned as

part of the plan of study. A graduate faculty member, who clearly represents the interdisciplinary minor, must be included on the supervisory committee. ABE students pursuing graduate degrees through the College of Engineering cannot minor in Packaging Science or Agricultural Operations Management. If a minor is included as part of the plan of study, then no courses from the department of the minor can be included in the major.

Requirements for the Doctor of Philosophy Degree

The PhD degree in Agricultural and Biological Engineering is an advanced engineering degree. Accordingly, the plan of study must include a concentration of advanced level engineering courses in a fundamental area of engineering. For example, an appropriate concentration of course work might consist of a sequence of graduate level courses in advanced fluid mechanics and sediment transport, or a conduction-convection-radiation, advanced thermodynamics sequence, or chemical engineering transport phenomena sequence, or advanced machine dynamics and control systems, etc. The plan of study should be developed to include courses that will benefit the student's research project and prepare the student for a professional career. Sufficient course work in advanced level engineering courses from the Agricultural and Biological Engineering and other engineering departments must be included in the PhD plan of study to insure that the graduate will be adequately prepared to successfully pursue advanced engineering practice or research/teaching in the field of interest.

A PhD degree plan of study is based on all work completed beyond the baccalaureate, with a required minimum of 54 credits of course work and a total of 90 credits including both course work and research credits. Graduate credit is awarded for courses numbered 5000 and above for coursework in the major field. ABE 6905 (Individual Work in Agricultural & Biological Engineering or equivalent coursework) may not be applied toward the minimum requirements for the engineering PhD degree. *Statistics courses and courses in the minor field cannot be substituted for departmental major courses (ABE/AOM/PKG).* For work outside the major, courses numbered 3000 or above, not to exceed 6 credits, may be taken provided they are part of an approved plan of study. Each plan of study for the PhD must include at least 9 hours of mathematics (including master's course work) at the 5000 level or higher ([See Appendix C](#)) and 3 hours of graduate level applied statistics (STA 6166 or equivalent).

PhD students receiving financial support from assistantships, *who enter the ABE graduate program in Fall 2011 and beyond*, are required to include a minimum of three hours of Supervised Teaching (ABE 6940) in their Plans of Study. A maximum of 5 credits of ABE 6940 may be included in the student's plan of study. This maximum limit cannot be waived and it applies to the entire graduate career. Supervised teaching credits will be considered for approval by the graduate committee only when a description of the work to be performed is submitted with the plan of study. Typically 20 to 30 hours of work is required to support 1 hour of supervised teaching.

The plan of study may include a maximum 6 hours of research credit transferred from the master's degree. Additional dissertation research credits may be taken to meet minimum registration requirements; however, the additional credits will not count toward meeting degree requirements. No student can enroll for dissertation research credits (ABE 7980) before the student has passed the PhD qualifying examination.

Major Area

The plan of study must include a minimum of 12 credits of major courses at the 5000 level or above that define a meaningful, integrated area of academic concentration. The minimum number of ABE credits is 6 (excluding ABE 6905, ABE 6931, ABE 6940, ABE 6971, ABE 7979, and ABE 7980). One hour (beyond the master's) of seminar (ABE 6931) must be included in the major.

Minor Area (optional)

For the PhD degree, a minimum of 12 credits at the 5000 level or higher is required for a minor in a certain department or program area as approved by the minor department or program area representative(s) on the supervisory committee. If two minors are selected, then each minor must consist of at least 8 credits. Course work in the minor is not limited to the course offerings of one department, provided that the minor has a clearly stated objective. The combination of courses selected for the minor needs to be as part of the plan of study. A graduate faculty member must be included on the supervisory committee who clearly represents the interdisciplinary minor.

ABE students pursuing graduate degrees through the College of Engineering cannot minor in Agricultural Operations Management or Packaging Science.

Grade Point Requirements for Graduation

The appropriate grade point requirements for graduation are:

1. A minimum 3.00 GPA (3.25 for PhD students) in all graduate level courses at the University of Florida.
2. A minimum 3.00 GPA (3.25 for PhD students) in all courses that comprise the major. In this case, the major is not just ABE, AOM or PKG courses. The major also includes courses from other departments that have been declared a part of the major.

Registration

Registration for course work each term is the responsibility of the student. Course registration should conform to the student's plan of study, and the minimum and maximum hours of registration as stated in Table 1. Course selection for each term should be made in close consultation with the student's advisor. A student must be registered for an appropriate load during the term in which the student graduates ([see Table 1](#)). Students not registered by the end of the Drop/Add period each semester must be dropped from their assistantship or fellowship.

Students who neglect to register on time will be responsible for personally paying the late registration fee. The ABE department WILL NOT pay this fee for students out of departmental funding.

Dropping Courses

The Graduate School has no rigid policy concerning graduate students dropping courses other than each graduate student must maintain a minimum registration in order to continue receiving assistantship or fellowship support. Each request to drop a course must be approved by the chair of the student's supervisory committee, the Department Chair or the Graduate Coordinator, the appropriate College Dean, and the Graduate School.

After Drop/Add, students must petition their college or graduate department for all schedule changes.

If a student successfully petitions to both drop AND add a course after Drop/Add:

- The change is processed as two actions, a drop and an add.
- **The student will be fee liable for both the course dropped and the course added to his/her schedule.**

If there is no university error and the student believes the fees for the dropped course should be waived due to an extenuating circumstance, the student must submit a petition to the University Petitions Committee. The petition must be signed by the Graduate Coordinator.

TABLE 1. Minimum Registration Requirements

Most ABE graduate students fall into one of the following categories.

For a complete list of all graduate student registration requirements visit:

<http://gradschool.ufl.edu/catalog/current-catalog/catalog-general-regulations.html#registration>

Note: For students on appointment for the full summer, registration must total that specified for C term. Registration may be in any combination of A, B, or C terms. However, courses must be distributed so that the student is registered during each term on appointment.

	Fall & Spring	Summer		
		A	B	or C
Full-Time Graduate Students not on Appointments	9-12	4	4	8
Assistants on .25 - .74 and/or 1/4, 1/3, & 1/2-Time Assistants	9	3	3	6
Graduate students not on appointment but using University facilities and/or faculty time	3	1	& 1	or 2
Graduate Students not on Appointment during Final Term	3	1	& 1	or 2

Tuition and Financial Aid

Payment of fees by the dates listed in the front of the *Graduate Catalog* is an integral part of the registration process. For students classified as non-Florida residents, the tuition charges are considerably higher than for Florida residents. See the *Graduate Catalog* for State residency requirements. Normally, students on graduate assistantships of 1/4 time or greater will be issued tuition waivers for about 95% of the cost of tuition, subject to availability of funds. All students are responsible for paying their tuition and fees regardless of the value of tuition waivers.

A graduate student with an assistantship, fellowship, or traineeship must not accept other aid without Graduate School permission and must be registered in accordance with the schedule shown in Table 1.

All non-Florida students who are U.S. citizens or permanent residents are eligible for out-of-state fee waivers and/or departmental support for tuition the year after they have filed for Florida residency status. **It is the student's responsibility to file for Florida residency status when they first enroll at UF.** The detailed procedures and requirements are outlined in the *Graduate Catalog*.

Financial aid in the form of scholarships and loans may be available to highly qualified graduate students. In general, such awards are available to students pursuing either Master's or PhD degrees. For information concerning availability of scholarships and loans and the necessary qualifications, students should contact the Dean's Office in the Colleges of Agriculture and Engineering and the Office for Student Financial Affairs.

Campus Residency Requirement

Beyond the first 30 hours counted toward the doctoral degree, candidates for the doctoral degree must complete the final 30 hours of degree credit at the University of Florida campus or at an approved branch station of the University of Florida Agricultural Experiment Stations or the Graduate Engineering and Research Center.

Normal Progress

Students in pursuit of the Master of Engineering, Master of Science, and Doctor of Philosophy degrees are expected to complete at least the minimum hourly requirement each term and to maintain an acceptable academic grade point average. An acceptable GPA is understood to mean 3.00 (3.25 for PhD students). Students who fall below these standards will be considered to be on academic probation. Students who remain below this standard for two consecutive terms are subject to termination.

A master's degree is expected to be completed within two years and a PhD degree within four calendar years of study. The student's progress will be formally assessed by the Supervisory Committee Chair at the end of each term to determine whether the student should be continued in the program and whether the student should continue receiving financial assistance from the department.

Graduate Seminar Course and Departmental Seminars

All graduate students are required to register for 1 credit of ABE 6931 during the first or second semester of the first graduate degree. Students located at Research Units can satisfy seminar requirements by enrolling in ABE 6931 and participating in center seminar series under supervision of their major professor in coordination with the faculty member supervising ABE 6931. REC students must contact the Academic Services Coordinator to have a special section created for this course. Students pursuing additional degrees are not required to take a second seminar class.

Students are expected to attend at least 50% of all departmental seminars. Students are encouraged to suggest topics and speakers of particular professional interest for departmental seminars.

All graduate students are required to present a seminar to the department at the end of their graduate program. This can be the presentation given during the defenses of PhDs and Masters with thesis. Nonthesis Masters students should present a seminar related to their area of study.

Thesis and Dissertation

Students begin work toward a thesis or dissertation from the time they enter Graduate School. Careful planning and a timetable will help avoid delays as well as give the student valuable training.

Resources for preparation of theses and dissertations are available at the Graduate School Editorial Office and also online (<http://gradschool.rgp.ufl.edu/editorial/introduction.html>). For technical support in creating an electronic thesis or dissertation, see <http://www.circa.ufl.edu/~etd/>.

The thesis or dissertation is to be developed by the student with the supervision and criticism of his/her advisor. The student and his/her advisor may agree to prior review of the thesis, either section-by-section or in its entirety or both. When the advisors are satisfied that the document is ready for review by the supervisory committee, they will authorize distribution. Student should expect several major changes and corrections in their thesis or dissertation as required by the supervisory committee. Therefore, the student must allow enough time to make required changes. The student must submit the final draft of the thesis or dissertation to members of the supervisory committee at least 10 working days prior to the date of the final exam. The final draft should be complete in every respect including figures, tables, and bibliography, but in a form to allow for incorporation of editorial and/or substantive changes with minimal expense or inconvenience to the student. Turn-around time for thesis reviews can often be considerably reduced if the graduate student notifies the committee members in advance of the date when draft copies will be submitted for review.

The thesis or dissertation must be defended in time to meet Graduate School Deadlines. The Graduate School requires that Masters theses be defended before first submission to the Graduate School. The first submission for PhD dissertations can be before the dissertation defense. Guidelines for submission of theses and dissertation to the Graduate School can be found at: <https://gradschool.ufl.edu/pdf-files/checklist-thesis.pdf> and <https://gradschool.ufl.edu/pdf-files/checklist-dissertation.pdf>

The student is required to distribute final copies of the thesis or dissertation to appropriate offices and faculty members. In addition, students should prepare a copy for themselves, their advisor, and other members of the supervisory committee who express a desire for a copy.

Thesis and Dissertation Deadlines

Deadlines for the submission of original signature pages with theses or dissertations are published by the Graduate School each term. <http://gradschool.ufl.edu/students/critical-dates-and-deadlines.html>. The deadline for submission of signature pages for theses or dissertations is the same as the deadline for submission of the final exam form. In all cases, the student must schedule the oral examination prior to the deadline to allow time for corrections, since corrections are to be completed before final signatures. The department Coordinator of Academic Support Services must be notified of the examination time, date, location and dissertation or thesis title at least two weeks before the date of the examination.

The final oral examination is open to all interested graduate faculty. An announcement form must be sent to the committee members and an email to departmental faculty. The defense of the thesis or dissertation should be well prepared including any appropriate visual aids. One of the aims of the preparation should be to synthesize the important conclusions in a time-efficient presentation, on the order of 30 minutes, leaving ample time for questions and discussion. Normally 3 hours should be scheduled for the final oral examination.

Qualifying Examination for PhD Degree

All PhD students are required to pass a qualifying exam. This exam will consist of written and oral sections. The student must have completed all articulation requirements (if any) for the PhD degree prior to scheduling the written qualifying examination. Both written and oral examinations are normally taken after the completion of at least four semesters of PhD study. The examination must be scheduled so that there is a minimum of two terms between the successful completion of the examination and the date of the degree if the student is in full-time residence, or a calendar year if the student is on less than a full-time basis. The term in which the examination is passed is counted, provided that the examination is held before the midpoint of the term.

The written qualifying exam is to be coordinated and administered by the student's faculty advisor. The examination is to be developed within the guidelines that a reasonably competent PhD student can successfully complete the examination in approximately 24 hours. It is expected that each supervisory committee member will provide the student with a written exam. The written portion must be passed prior to taking the oral portion. Normally 3 hours should be scheduled for the oral portion of the qualifying examination. The qualifying examination may be conducted using video and/or telecommunications. However, the student and chair or co-chair must be in the same physical location. All other members may participate from remote sites via technological means. There may be one substitute participant who is not the chair or external member in special circumstances with prior approval.

If the student fails the written or oral examination, it is the committee's responsibility to decide when the student can retake another qualifying examination. Normally, a student will not be permitted to take either the written or oral qualifying examination more than two times.

Following successful completion of both written and oral qualifying examinations, the student is eligible for PhD candidacy. In addition to successfully completing the qualifying examinations, the student must have chosen his/her dissertation topic and must have a minimum of 3.25 GPA both in the major and in all work attempted in the graduate program.

Time Limitation: All work for the doctorate must be completed within 5 calendar years after the qualifying examination, or this examination must be repeated.

Final Examinations

The comprehensive oral examinations and the oral defense of a thesis, project or dissertation may be conducted using video and/or telecommunications. However, the student and chair or co-chair must be in the same physical location. All other members may participate from remote sites via technological means. There may be one substitute participant who is not the chair or external member in special circumstances with prior approval.

Master of Engineering and Master of Science, Thesis Option

The examination covers the thesis research, and may also cover academic preparation and basic principles and applications. A final exam can be taken no sooner than two semesters after approval of a student's plan of study and research proposal.

Master of Engineering and Master of Science, Nonthesis Option

All students pursuing Nonthesis degrees are required to present a seminar to their Supervisory Committee in the final semester of their graduate program. The seminar topic should be related to the student's area of interest. The seminar is open to the Department.

A comprehensive written and/or oral examination may also be required at the discretion of the student's committee. If required, the comprehensive examination generally covers academic preparation and basic principles and applications in addition to any design or analysis project report. A final exam can be taken no sooner than two semesters after approval of a student's plan of study and project proposal.

PhD Degrees

After submission of the dissertation and the completion of all other prescribed work for the degree, but in no case earlier than six months before the conferring of the degree, the candidate will be given a final examination, oral or written or both, by the supervisory committee meeting on campus. The examination will cover the dissertation research, and it may also cover academic subjects and basic principles and application of the principles to the dissertation subject. A final exam can be taken no sooner than two semesters after passing the qualifying exam.

Foreign Language Requirements

There is no foreign language requirement for any degree; however due to the international nature of Agricultural and Biological Engineering the students are encouraged to take advantage of the language courses offered at the University of Florida.

Administrative Policies

Policy on Graduate Student Support

Regardless of whether a graduate student is supported with state or grant funds, the purpose of these policies is to encourage timely progress toward completion of degree requirements and to make optimal use of available funding and other resources (space, faculty time, equipment, etc...). It is expected that graduate students' assistantships will be supported with grant funds. A small amount of state money may be used primarily to attract outstanding students or to continue support of students whose grant funds are unexpectedly terminated. State funds may be used to support international students when the student's expertise and background are needed to further our research programs.

Since recruitment of outstanding domestic graduate students is very competitive, state support will be given on a first-come first-serve basis, as soon as an outstanding student has been identified.

The Graduate Committee will review requests for state money assistance for new graduate students and will make recommendations to the Department Chair who will make the final decisions.

Length of Support

Graduate students on financial support (grant or state funds) may expect to receive support for two years at the master's level and four years at the PhD level. Continuation beyond these periods for exceptional cases will be subject to review on a case by case basis

The faculty advisor will make the request for continuation with state funds at least a semester before the student is scheduled to be off financial support. Requests for continuation should be made as early as possible because of the need for planning to make adjustments for the budget year. The Graduate Committee will review the requests and make recommendations to the Department Chair who will make the final decisions.

If continuation of the assistantship is with grant funds, the grant P.I. will make the decision, with the approval of the Graduate Committee and the Department Chair.

Assistantship Responsibilities

A graduate student on a 1/3-time assistantship is expected to work a minimum of 13 hours per week on activities (research or service support) that are in compliance with the overall departmental objectives as determined by the student's advisor and Department Chair. Likewise, students on 1/2-time or 3/4-time assistantships are expected to work on a similar basis for a minimum of 20 hours and 30 hours per week, respectively. Assistantship requirements normally include thesis or dissertation activities but can include other tasks assigned by the faculty advisor.

All students receiving assistantships, *who enter the ABE graduate program in Fall 2011 and beyond*, must participate in the Department's teaching and/or extension education programs by developing new lecture, online resource, distance education and laboratory material for courses or by conducting lectures or laboratories. Masters students must include a minimum of one hour of ABE 6940 Supervised Teaching in their Plans of Study and PhD students must include at least three hours of ABE 6940 Supervised Teaching in their Plans of Study. Up to 5 hours of credit for ABE 6940 Supervised Teaching can be included in PhD Plans of Study. A score of 55 on a UF SPEAK test (<http://ase.ufl.edu/testing.html>) or a score of 28 on the Speaking portion of a TOEFL iBT test is required of all graduate students whose native language is not English before they can lecture in courses. UF permits provisional teaching assignments for students scoring 45 or 50 on a UF SPEAK test or **23 - 27** on the Speaking portion of the TOEFLiBT if they concurrently enroll in EAP 5836 Academic Spoken English 2 (<http://ase.ufl.edu/syllabi2.html>).

Graduate Assistant appointments generally extend for 2 years for master's degrees and 3 years for the PhD degree, subject to satisfactory performance and funds availability. In order to remain on assistantship a student must be registered for the appropriate number of credit hours each term ([see Table 1](#)).

Student Evaluations

Each graduate assistant will be evaluated by his/her faculty advisor based upon performance of assigned duties; compliance with department requirements such as maintenance of office hours, regular visits with faculty advisor, academic progress; and meeting the requirements of the supervisory committee, department, college, and graduate school relating to the timely execution of required documents such as plan of study, supervisory committee appointment form, etc.

Vacation and Sick Leave

- A. Vacation and sick leave is a departmental courtesy benefit and not a University benefit.
- B. Vacation leave may be taken by the graduate assistant with the approval of the student's advisor.
- C. Please note that all graduate assistants, regardless of percent employment or actual hours worked, are expected to be on duty at least part of every working day not taken as vacation or sick leave, including the period between academic terms. Official state holidays are not considered to be working days.

Office Assignments

Office space is assigned to graduate students on a space-available, priority basis. Office assignments are made by the department Coordinator of Academic Support Services. Most office space is in conventional offices shared by multiple graduate students, and some desks are in laboratories. Priority of office space is generally given in the following order, however this does not imply selection of location is based on the same priority. The Academic Support Services Coordinator may adjust actual locations to best meet the needs of all students and the needs of the department.

- A. Full-time graduate research assistants
- B. Ph.D. graduate assistants with assistantships
- C. Other Ph.D. students

A shared office space is available for use by Department Master's students. Permanent storage of personal items is not permitted in the room and desks are not assigned. Lockers are available for use by Master's students and may be obtained from the Coordinator of Academic Support Services.

Room keys will be assigned to graduate students by the Research Program Coordinator. The Research Program Coordinator will enter the student's Gator 1 ID information into the building's security system, so that the student's Gator 1 ID will unlock entrance doors to Frazier Rogers Hall. Keys will unlock graduate student office doors and laboratory doors. Graduate students who have need for access to the shop will be assigned a key with these additional capabilities.

Graduate students must turn in any keys assigned to them upon completion of their graduate program. Final paychecks for those on assistantships will be held until keys are returned. **Keys are not to be loaned to non-departmental personnel. It is unlawful to duplicate these keys.** Entrance doors automatically lock between 6:00 P.M. and 7:00 A.M. and on weekends and holidays.

Research involving Data Collection using Human or Animal Subjects

If your research involves data collection using animals or humans, you must be familiar with the University of Florida procedures that ensure that the rights and welfare of the animals and people are adequately monitored and protected. All research projects involving human or animal subjects, even if it is purely observational, must be approved before the project begins by one of three boards outside of the department. Federal regulations prohibit retroactive approval and any research results obtained without approval cannot be used.

Before you begin any such research, it is critical that you obtain approval from the appropriate UF committee: the Institutional Review Boards or the Institutional Animal Care and Use Committee. Information regarding these committees is found in the UF Graduate Student Handbook

Research Data, Software, Designs and Manuscripts

All research data, patents, designs, computer software, creations, etc. obtained by graduate students on assistantship support are the property of the State of Florida. All research data and other requested materials must be submitted to the advisor before the student leaves the University of Florida. If any patents or copyrights are awarded to the inventions or designs of any graduate student's thesis or dissertation research, then both the student and his/ her advisor are credited. They can receive a percentage of the profits or royalties realized from the patents or copyrights.

Graduate students are strongly encouraged to submit manuscripts for publication of their findings. The advisor and others involved directly with the research project are to be listed as co-authors. It is recognized that graduate students may leave the University without preparing a manuscript to submit for publication and may or may not do so within a reasonable time. Twelve months after the student leaves the University, the advisor can use the thesis and research data to prepare a manuscript for publication if the student has not already done so. Under this arrangement, the advisor would be the senior author and the former student would be a co-author.

Computer Time and Assistance

All student offices, classrooms and laboratories have internet access. Upon arrival at the department, students should submit an Application for ABE Network Account (Appendix G) to the department's Systems Programmer who will set up the account ID and initial password.

The departmental computer teaching lab is available to all students at times when classes are not scheduled for the lab. Students working on class assignments in this lab are given priority over students working on research assignments. All use of departmental computers must comply with University of Florida Information Technology Acceptable Use Policy (<http://it.ufl.edu/policies/aupolicy.html>)

Purchases and Support

Requests for secretarial and technical support should be channeled through the student's advisor. Services are restricted to work in support of research activities with the approval of the advisor. Under no circumstances will

these services be available for activities related to course work or thesis or dissertation preparation. Secretarial services will be made available for preparation of proposals and reports required for grant supported research projects. Expenses related to the preparation of required reports or publications based on theses and dissertations are legitimate departmental expenses.

All purchases made for extension, research and teaching activities, whether related to thesis research or not, must receive prior approval of the student's advisor. Details for making purchases are available from the departmental fiscal office.

To use library services requiring payment, such as computerized literature searches, etc., the student must obtain the approval of his/her advisor to use the appropriate blanket account number for each library. For certain libraries, it may be necessary for the advisor to write a letter giving approval for the student to charge the specified services to departmental account numbers.

Use of State Vehicles

State vehicles are for **OFFICIAL USE ONLY**. Operators of state vehicles must abide by all state laws as specified in "Rules of the Road" available from any Florida Highway Patrol Office. Special courtesy to other drivers should be exercised at all times, since one is representing the department, university, and state when driving a state vehicle.

A valid Florida driver's license is required to operate state vehicles. As required by the State of Florida, a commercial driver's license may be required for operation of certain vehicles. Caution: Only persons employed by the university are covered by state insurance while operating a university-owned vehicle. A graduate student on an assistantship meets the employment criterion.

Students operating state vehicles should check with their advisors and the Research Program Coordinator concerning current procedures for signing out vehicles, purchase of fuel, maintenance of vehicle log book, etc.

Use of Shop Facilities and Services

Graduate students are generally expected to fabricate experimental equipment needed for their thesis or dissertation research that is not otherwise available. Students must follow all policies and regulations regarding the use of shop facilities. The policies and rules are:

- A. These shops are intended only for research, teaching and extension activities.
- B. The precision machine shop can only be accessible to persons obtaining permission from the Research Program Coordinator.
- C. During the Monday through Friday work week the general shop is accessible to faculty, graduate students, and staff from 8 A.M. to 5 P.M. During the Monday through Friday work week the teaching shop is available to faculty, graduate students, and staff if their activities do not interfere with classroom instruction.
- D. To insure safety, all persons using the shop facilities must work only when another person is within the same laboratory area during its use. In cases of extensive or complex fabrication, shop personnel may help with the work. Use of shop personnel must be arranged by the student's advisor in advance. Graduate students should not use general shop supplies (steel, plastic, pipe, etc.) without prior approval of the Research Program Coordinator and faculty advisor.

APPENDIX A

ABET - Equivalency Requirements for Agricultural and Biological Engineering

	Semester Credits
<u>One Year of Mathematics & Basic Sciences</u>	
Analytic Geometry and Calculus	12
Elementary Differential Equations	3
General Physics with Calculus	6
Physics Laboratory	2
General Chemistry and Qualitative Analysis	6
General Chemistry Laboratory	2
Biological Science Requirement	3
 <u>One Year of Engineering Sciences and Analyses</u>	
Numerical Methods & Computer Programming for Engineers	2
Statics	3
Computer Assisted Drafting	3
Dynamics	2
Engineering Materials	3
Mechanics of Materials	3
Fluid Mechanics or Hydrodynamics	3
Thermodynamics	3
Other Engineering Sciences and Electives	7
 <u>½ Year of Engineering Design</u>	
Agricultural Engineering Design Courses	12
Engineering Design Electives	4

APPENDIX C

Lists of Courses for Mathematics Requirement and for Applied Statistics Requirement

Math Courses:

	Semester Credits
ABE 6986 Applied Mathematics in Agricultural Engineering	3
ECH 6847: Mathematical Basis of Chemical Engineering	3
EGM 5121C: Data Measurement and Analysis	3
EGM 6321 Principles of Engineering Analysis I	3
EGM 6322 Principles of Engineering Analysis II	3
EGM 6323 Principles of Engineering Analysis III	3
EGM 6341 Numerical Methods of Engineering Analysis I	3
EGM 6342 Numerical Methods of Engineering Analysis II	3
EGM 6351 Finite Element Methods	3
EGM 6352 Advanced Finite Element Methods	3
MAA 5104 Advanced Calculus for Engineers and Physical Scientists I	3
MAA 5105 Advanced Calculus for Engineers and Physical Scientists II	3
MAA 5404 Introduction to Complex Variables for Engineers and Physical Scientists	3
MAA 6236 Mathematical Analysis for Statisticians	3
MAD 6406 Numerical Linear Algebra	3
MAD 6407 Numerical Analysis	3
MAP 5304 Intermediate Differential Equations for Engineers and Physical Scientists	3
MAP 5345 Introduction to Partial Differential Equations	3
MAP 6217 Intro to Calculus of Variations for Engineers and Physical Scientists	3
MAP 6375 Numerical Partial Differential Equations	3
MAP 6376 Finite Element Method	3
MAP 6505 Mathematical Methods of Physics and Engineering	3
MAP 6506 Mathematical Methods of Physics and Engineering II	3
MAS 5157 Vector Analysis	3
MAS 5311 Introductory Algebra I	3
MAS 5312 Introductory Algebra II	3
STA 5325 Fundamentals of Probability	3
STA 5328 Fundamentals of Statistical Theory	3
STA 5701 Applied Multivariate Methods	3
STA 5823 Stochastic Process Methods	3
STA 6226 Sampling Theory and Applications	3
STA 6326 Introduction to Theoretical Statistics I	3
STA 6327 Introduction to Theoretical Statistics II	3
STA 6466 Probability Theory I	3
STA 6467 Probability Theory II	3
STA 6526 Nonparametric Statistics	3
STA 6826 Stochastic Processes I	3
ESI 6321 Applied Probability Methods in Engineering	3
ESI 6337 Markov Processes, Queueing Theory, and Applications	3
ESI 6417 Linear Programming and Network Optimization	3
ESI 6418 Linear Programming Extensions and Applications	3
ESI 6429 Introduction to Nonlinear Optimization	3
ESI 6448 Discrete Optimization Theory	3
ESI 6492 Global Optimization	3
ESI 6529 Digital Simulation Techniques	3

Applied Statistics Courses:

	Semester Credits
STA 5106 Computer Programs in Statistical Analysis	1
STA 6166 Statistical Methods in Research I	3
STA 6167 Statistical Methods in Research II	3
STA 6207 Applied Statistical Methods	3
STA 6208 Regression Analysis	3
STA 6209 Design and Analysis of Experiments	3
STA 6857 Applied Time Series Analysis	3

APPENDIX E

Summary of Procedures for Master's Degree

It is the student's responsibility to ascertain that all requirements have been met and that every deadline is observed.

Refer to the following graduate school checklists to obtain current information.

Dissertation Checklist: <https://gradschool.ufl.edu/pdf-files/checklist-thesis.pdf>

Deadline Dates: <http://gradschool.ufl.edu/pdf-files/deadlines-editorial.pdf>

<u>Requirement</u>	<u>Person Responsible</u>	<u>Completion Date</u>
Select Advisor and Members of Supervisory Committee	Student	Middle of First Term
Transfer of Credit from other Undergraduate, Postbaccalaureate and Graduate Programs	Faculty Advisor Student	End of First Term
Submit Approved Plan of Study to Graduate Committee	Faculty Advisor Student	Beginning of Second Term
Submit Approved Research Project Proposal to Graduate Coordinator	Faculty Advisor Student	Middle of Second Term
Submit major and minor degree choices to Graduate Coordinator	Faculty Advisor Student	End of second Term
Submit signed Supervisory Committee form to Academic Services Coordinator.	Faculty Advisor Student	Before completion of 24 credits, but not later than second term
Notify Academic Services Coordinator of intended graduation date. Check Plan of Study to ensure that all course requirements will be met.	Student	Term prior to one in which degree is to be awarded
Submit petitions regarding Degree Requirements to adjust coursework counted in major.	Faculty Advisor	4:00 PM of last day of classes in term preceding the term in which the degree is to be awarded
Final Term Registration	Student	3-Credit Minimum (ABE 6971), (2-Credit during Summer)
Present Seminar on Thesis Research or Nonthesis Project	Student	During Last Term
Apply for graduation in ISIS	Student	Prior to published deadline in Deadline Dates
Notify Academic Services Coordinator of Final Exam date, time, place & thesis title.	Faculty Advisor	Not later than 10 working days before examination
Final Examination – required for ALL M.S. degrees (thesis and non-thesis) and also for M.E. thesis degree.	Faculty Advisor Student Acad.Coordinator	Prior to published deadline. Submitted electronically to the Graduate School
First Submission of Thesis to Graduate School Editorial Office	Student	Prior to published deadline in Deadline Dates
Pay all related submission charges listed ISIS	Student	Prior to final submission to Graduate School
Refer to Grad School ETD checklist for required final paper submission items.	Student	Prior to published deadline in Deadline Dates
Return office key, desk key and all equipment to Research Program Coordinator	Student	Prior to departure

APPENDIX F

Summary of Procedures for PhD Degree

It is the student's responsibility to ascertain that all requirements have been met and that every deadline is observed.

Refer to the following graduate school checklists to obtain current information.

Dissertation Checklist: <https://gradschool.ufl.edu/pdf-files/checklist-dissertation.pdf>

Deadline Dates: <http://gradschool.ufl.edu/pdf-files/deadlines-editorial.pdf>

<u>Requirement</u>	<u>Person Responsible</u>	<u>Completion Date</u>
Select Advisor and Members of Supervisory Committee	Student	Middle of First Term
Transfer of Credit from other Undergraduate, Postbaccalaureate, or Graduate Programs	Faculty Advisor Student	End of first term
Submit approved Plan of Study to Graduate Committee	Faculty Advisor Student	Beginning of second term
Submit approved Research Project Proposal to Graduate Coordinator	Faculty Advisor Student	Middle of second term
Submit major and minor degree choices to Graduate Coordinator	Faculty Advisor Student	End of Second Term
Submit signed Supervisory Committee form to Academic Services Coordinator.	Faculty Advisor Student	Before completion of 24 credits, but not later than second term
Written and Oral Qualifying Examinations	Faculty Advisor	Normally taken after completion of at least two terms of PhD study. There must be a minimum of two terms between the successful completion of the exam and the graduation date.
Submit Admission to Candidacy Form	Faculty Advisor	Submitted electronically to the Graduate School upon satisfactory completion of Qualifying Exam
Registration in doctoral research	Student	Register in ABE 7979 before admission to candidacy. Register in ABE 7980 after admission to candidacy.
Review deadline dates and see ABE Academic Services Coordinator for final review of degree/Plan of Study requirements.	Student	Term prior to one in which degree is to be awarded
Petition to transfer specific non-dept.course credits to major courses	Academic Services Coordinator	In term preceding the term in which the degree is to be awarded
Final term registration Student	Student	3-Credit minimum (ABE 7980), (2-Credit during Summer)

Present seminar on Dissertation Research	Student	During last term
Apply for graduation on ISIS	Student	Prior to published deadline in Deadline Dates
First submission of dissertation and related forms to Graduate School Editorial Office	Student	Prior to published deadline in Deadline Dates
Notify Academic Services Coordinator of Final Exam date, time, place & dissertation title.	Faculty Advisor Student	Not later than 10 working days before examination.
Final Examination	Faculty Advisor Student Acad. Coordinator	Prior to published deadline. Submitted electronically to the Graduate School upon satisfactory completion of Final Exam
Pay all related submission charges listed on ISIS	Student	Prior to dissertation submission to Graduate School
Refer to Grad School ETD checklist for required final paper submission items.	Student	Prior to published deadline in Deadline Dates
Return office key, desk key and all equipment to Research Program Coordinator	Student	Prior to departure

APPENDIX G

Minimum Requirements for ENG Graduate Degrees

<u>Minimum</u> Requirements for ENG Graduate Degrees						
Degree	Total Hours	Coursework	Research Credits	ABE Courses	Graduate Level Math	Graduate Level Applied Statistics
ME with Thesis	30	24	6	6	3	0
MS with Thesis	30	24	6	6	3	0
ME without Thesis	30	30	0	6	3	0
MS without Thesis	30	30	0	6	3	0
PhD	90	54	Number required to equal 90 total hours	6	9	3

APPENDIX H

Application for ABE Network Account

Please provide all information requested. The application will not be processed if incomplete.

Name: _____

UFID: _____ * Password will be initially set to UFID

Gatorlink Username: _____

Which group do you belong to? Please check one.

- Faculty
 - Staff/Technician
 - Courtesy/Visiting If Visitor, ending date? _____
 - PostDoc
 - Graduate Student
-

Agreement

I understand this is an individual account and have been made aware of and agree to abide by the UF Information Technology Acceptable Use Policy <http://it.ufl.edu/policies/aupolicy.html>.

Signature: _____ Date: _____

APPENDIX I

Graduation Checklist

- ___ E-mail the Academic Support Services Coordinator (ASSC) the semester prior to graduation to do a requirements check.
- ___ Present seminar to department (You should have completed ABE6931). The seminar can be part of a final defense.
- ___ Have all grade changes for incomplete grades submitted. DO NOT DELAY THIS!
- ___ IMPORTANT...if you made changes to any coursework for a concurrent degree you must resubmit a corrected, signed program of study to the graduate school.
- ___ If you are getting a minor you must send the ASSC the list of courses for the minor to be submitted to the graduate school.
- ___ Confirm on your transcript that courses did transfer from a former Master's program if you including them in your PhD program of study.
- ___ The graduate school requires 12 hours of dept. coursework in the major for a Master's program (15 for non-thesis). I may have to petition to have non-ABE/AOM/PKG courses counted, so let me know a full semester before you graduate so I can review your transcript/POS and petition if necessary.
- ___ Schedule a conference room for your defense. They book up early so don't wait.

Semester of graduation:

- ___ **Register for required number of research hours (DO NOT FORGET THIS RULE!).**
3 hours in Fall or Spring 2 hours in Summer
- ___ Register for required number of total hours if you are on an assistantship or Fellowship
Spring/Fall=9 assistantship/12 Fellowship Summer=6 assistantship/8 Fellowship
- ___ Apply for graduation On ISIS
- ___ Reserve regalia for ceremony Registrar's website – graduation checklist
- ___ Guide for Preparing Theses & Dissertation ETD - Grad School Editorial Site
(<https://gradschool.ufl.edu/editorial/introduction.html>)
- ___ Deadline dates list Grad school website
(<https://gradschool.ufl.edu/catalog/current-catalog/catalog-academic-calendar.html>)
- ___ Schedule defense date Give to ASSC with date, time, place & title 10 working days prior to defense
- ___ Final exam form- **MS non-thesis** Request form for Sup. Committee to sign. Return to ASSC.
- ___ Exit Interview with Dr. Haman Schedule with executive assistant
- ___ Forwarding address Provide to ASSC
- ___ Turn in desk, office key To Paul Lane, prior to graduation