

Agricultural and Biological Engineering

Graduate Student
Policies & Procedures Manual
2019-2020





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ABE Graduate Student Manual

Welcome

Welcome to Purdue University and the Department of Agricultural and Biological Engineering (ABE)! We are delighted that you will be joining us in ABE and are excited to be a part of your professional journey. The purpose of this manual is to acquaint you with the graduate policies and the Department of Agricultural and Biological Engineering at Purdue University.

All graduate programs at Purdue University are under the jurisdiction of the Graduate School. In this way certain standards are maintained across the university. These standards include course credit, plan of study format, advisory committee structure, vacation policy, registration and residency requirements, as well as admissions. Under these general guidelines, the Agricultural and Biological Engineering Department has a Graduate Committee that reviews programs and establishes departmental guidelines and policies which are presented in this manual.

We believe that you will find your journey meaningful and intellectually challenging. We encourage you to take advantage of the vast resources and opportunities available to you at Purdue University as you strive to reach your professional and personal goals. If you have any questions or need further information please contact Nikki Zimmerman at nzimmerm@purdue.edu.

Interim Graduate Chairs

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1. Degrees and Admission

All applicants are required by the Graduate School to hold a bachelor's degree from a college or university of recognized standing prior to registration, and should have achieved a grade point average of 3.0 on a 4.0 scale, or higher. Three-year Bologna bachelor's degree recipients are eligible for admission.

The ABE department requires a standard application to the Purdue West Lafayette Graduate School for admission consideration. All applications are reviewed by the ABE Graduate Committee for an admissions decision. Other required items are:

- Transcripts for all previously attended institutions
- Three Letters of Recommendation
- Statement of Purpose
- GRE scores (no minimum score required) not required for admission to the professional Master's program
- English Proficiency

Full requirements can be found here:

https://www.purdue.edu/gradschool/prospective/gradrequirements/westlafayette/abe.ht ml

1.1. Master's Degrees

Master of Science (MS) programs are directed by professors who work in close association with the graduate student. In practice, programs are composed of formal courses, guided individual study in a chosen field or discipline, study in such associated subjects as may be required by the candidate's advisory committee, and original research that serves as the basis of a scholarly thesis. A standard thesis-based MS degree requires 21 credits of formal coursework and an additional nine (9) credits of research requirements with the student's work culminating in a written thesis. A non-thesis MS degree requires 30 credits of formal coursework, and, in some cases, a final project. Admission to the Graduate Program at the master's level is restricted to those with an excellent undergraduate record who show potential for graduate success.

ABE offers two master's degrees for those students with strong undergraduate academic records. These include:

- Master of Science in Agricultural and Biological Engineering (MS-ABE): generally for students with a baccalaureate engineering degree, and
- Master of Science (MS): for students with non-engineering baccalaureate degrees.

Master of Science in Agricultural and Biological Engineering (MS-ABE)

Students who have received a Bachelor of Science in Engineering from an ABET (Accreditation Board for Engineering and Technology)-approved engineering program are normally admitted to this program. The guidelines for an engineering degree are defined by ABET to include 32 hours of engineering sciences, math requirements, and at least 16 hours of design courses.

International students are also eligible for the MS-ABE degree, if their undergraduate degree is in engineering, or a closely related program. Given the diversity of engineering programs and educational systems throughout the world, the Purdue ABE Graduate Committee may ask the student to document their eligibility for this degree option. In this case, the student may be asked to list their courses and to provide translations of any catalogue descriptions not found in English, which correspond to the 32 hours of engineering sciences, math requirements, and at least 16 hours of design, as specified above.

Members of the ABE Graduate Committee will ultimately decide whether an applicant is eligible for admission to the program.

<u>Master of Science</u>

Admission to the Master of Science program is available to graduates with non-engineering baccalaureate degrees. Students with a bachelor's degree in Agricultural Systems Management, or an equivalent area, are normally admitted to this degree program. Such students must have demonstrated an acceptable level of performance at the undergraduate level in the areas of biological sciences, chemistry, physics, mathematics, economics, management, and have thorough knowledge of computer use for communications and problem-solving.

Other students with an interest in new and emerging technology are also normally admitted to this degree program. In ABE, these are called Areas of Specialization. Students must have demonstrated acceptable performance at the undergraduate level in the biological sciences, chemistry, physics, food science, mathematics, and have a knowledge of computer use for communications and problem-solving.

International students are also eligible for this degree. The ABE Graduate Committee may ask the student to provide documentation that demonstrates an equivalent academic background. Members of the ABE Graduate Committee will ultimately decide whether an applicant is eligible for admission to the program.

BS/MS Dual Degree

ABE's Dual BS/MS Degree Program is restricted to undergraduate students in high academic standing. Application and admission to the Graduate School are required, and the standard Graduate School application process is to be followed. This degree is also referred to as an early admission program. Students desiring admission into ABE's Dual BS/MS Degree Program can apply to the Department's Graduate Programs Committee as early as their junior year (Semester 5). The Committee will consider the following criteria for admission into the Dual Degree BS/MS Program:

- 1. the student's undergraduate GPA (60 or more credits; minimum GPA of 3.5),
- 2. the student's GRE scores,
- 3. a formal statement of interest by the student,

- 4. a nomination letter from a sponsoring faculty member (in addition to the required three letters of recommendation), confirming that the faculty member is willing to serve as the student's mentor upon entering the program, stating that the student is an outstanding undergraduate student with the potential to successfully complete a BS and MS degree, and who wishes to expedite their education beyond the undergraduate level, and
- 5. three letters of recommendation.

The primary purpose of admitting outstanding undergraduate students into the MS degree program is to provide them the opportunity for an early start on their thesis research. Dual degree students are allowed to enroll in graduate courses and earn course and research credits towards their master's degree while completing their bachelor's. Before the baccalaureate degree is awarded, any course and/or research credits taken to satisfy the graduate degree requirements must be designated as undergraduate excess credits on the appropriate university form. Students must meet all requirements for the baccalaureate degree, which must be awarded before the student is eligible to earn the graduate degree.

All students are assigned, or will select, a faculty mentor/thesis advisor upon entering the program. In order to help students plan, the master's advisory committee must be chosen during their first semester in the program. Working with this committee (which includes the major professor), students need to develop a Research Proposal for their thesis and complete a plan of study that documents the graduate courses to be taken. Both documents must be submitted and approved by the ABE Graduate Committee prior to the end of the first semester of registration. Without an approved research proposal and plan of study, dual degree students will not be allowed to register for graduate courses and research credits beyond their first semester. It is expected that students complete a research-based master's thesis at the completion of their BS/MS program. Switching to a non-thesis M.S. would only be possible in the case of unforeseen circumstances, and would require specific approval from the Head of the ABE Graduate Program.

Dual degree BS/MS students are eligible for assistantship and fellowship support after admission to the Graduate School. However, in most cases they are **no longer eligible for financial aid.**

Provisional Admission Status for Students without an Engineering Degree

Applicants not meeting the requirements for full admission to the MS-ABE program are sometimes granted provisional admission to make up academic deficiencies in order to meet the guidelines for an engineering degree as defined by ABET, which include 32 hours of engineering sciences and at least 16 hours of design courses (48 hours total). The general requirements for admission to provisional status are established by the Graduate School.

Applicants with BS degrees from non-engineering or non-accredited programs who possess an undergraduate GPA greater than 3.5 may be admitted to provisional status while completing credit. A minimum of 15 credit hours of remedial undergraduate engineering courses from the five categories listed below are required (some areas of study may require

more, as agreed upon by the applicant and the major professor, and approved by ABE Graduate Program Committee). Credit for these remedial courses may be applied from equivalent courses from the applicant's BS degree, subject to approval by the major professor and the ABE Graduate Program Committee. The selection of courses from the five categories is left to the student and subject to the approval of the student's major professor and advisory committee.

The decision to provisionally admit a student ultimately rests with the ABE Graduate Program Committee. The equivalent of 2 semesters of engineering physics and 4 semesters of mathematics (through differential equations) are prerequisites for the engineering courses, and must be considered part of the remedial coursework if the applicant's background does not include them. Two suggested remedial course plans of study are given below:

Agricultural Engineering:

- 1. Engineering Statics (ME 27000 or equivalent)
- 2. Engineering Dynamics (ME 27400 or equivalent)
- 3. Thermodynamics (ABE 21000, ME 20000, or equivalent)
- 4. Fluid Mechanics (ME 30900, CE 34000, or equivalent) also called Hydraulics, Momentum Transfer
- 5. Mechanics of Materials (NUCL 27300, or equivalent) also called Strength of Materials

Biological Engineering:

- 1. Thermodynamics (ABE 20200 or equivalent)
- 2. Advanced Thermodynamics (ABE 30300 or equivalent) also called Physical Chemistry
- 3. Fluid Mechanics (ABE 30700 or equivalent) also called Hydraulics, Momentum Transfer
- 4. Heat and Mass Transfer (ABE 30800 or equivalent)
- 5. Kinetics and Reaction Engineering (ABE 37000 or equivalent)

Remedial courses at the 10000, 20000 and 30000 level cannot be listed on the student's graduate plan of study. Courses completed in addition to the above suggestions, which meet the 32 credit hours of engineering science and 16 credit hours of design (48 hours total), may be applied toward the requirements of completing the MS degree. A maximum of 6 hours of 40000-level (at a grade "B" or higher) and any 50000-level engineering science or design courses may be listed on the student's MS degree plan of study if approved by the student's major professor and ABE Graduate Program Committee.

Depending upon the applicant's background and work experience, completion of at least one 400 or 500-level engineering design course is required, and a senior capstone engineering design class (ABE 48500 or ABE 55600) is strongly encouraged.

Full status is generally granted when the minimum of 15 credit hours of remedial undergraduate engineering courses from the five categories listed above have been completed with a GPA of 3.0 or higher. Full status implies that the student continues to complete remedial courses to meet the ABET definition of a BS engineering degree, and courses required under the student's MS degree plan of study.

1.2. Doctor of Philosophy Degree

Ph.D. programs are directed by professors who work in close association with the graduate student. In contrast to the various master's degrees, the Purdue doctoral degree is not designated by department or by area of specialization. The area of specialization is recorded on student transcripts. The Ph.D. is available to qualified students desiring either an engineering, technology, or systems management program in the Agricultural and Biological Engineering Department.

Admission to the Ph.D. program is contingent upon the satisfactory completion of a MS degree in an Engineering, Technology, Sciences, or Agricultural Systems Management program. If the MS is received from Purdue University, a recommendation of the examining committee is also required. As always, members of the ABE Graduate Committee will ultimately decide whether an applicant is eligible for admission to the program.

Doctoral programs are composed of formal courses, successful completion of oral and written preliminary exams (see Section 5.1), guided individual study in a chosen field or discipline, study in such cognate subjects as may be required by the candidate's advisory committee, and original research that serves as the basis of a scholarly thesis. A Ph.D. requires 42 hours of formal coursework beyond the BS (normally 21 credits beyond the MS), and an additional 48 credits of research with the student's work culminating in a written dissertation.

Request for admission of a student who has received an MS degree in another department or university will be carried out through the established Graduate School and Department of Agricultural and Biological Engineering application procedures.

1.3. Areas of Specialization

An Area of Specialization is used to allow a specialized area of graduate study to be reflected on a student's final transcript. The Department of Agricultural and Biological Engineering currently has the following Areas of Specialization:

- Agricultural and Biological Engineering
- Agricultural Systems Management
- Biological and Food Process Engineering
- Biological Engineering and Technology
- Biotechnology Innovation and Regulatory Science
- Ecological Sciences and Engineering
- Fluid Power
- Computational Sciences

Core courses in each Area of Specialization are listed in Appendix B.

1.4. Transferring to ABE from another department

Requirements

The student must meet the Graduate School's requirements in order to be considered by ABE for a transfer from another Purdue department. This means the student's GPA must be at least a 3.0. The student should be coming from a discipline which closely relates to work done in the ABE department, and must be able to demonstrate knowledge of the field of agricultural and biological engineering and articulate how ABE is a good fit for them based on their research goals. Students must have an ABE faculty member willing to serve as their Major Professor.

Materials needed to approve transfer

The student's admissions application will be needed for review by the ABE Graduate Committee. This can be delivered by the student, or by the student's original department.

An unofficial Purdue transcript will be pulled if not submitted by the student.

A Statement of Purpose for Transfer will be written by the student, explaining the justification for the transfer, and explaining why ABE is an appropriate fit for the student.

A letter or statement by the ABE major professor justifying the transfer and indicating a willingness to supervise the student.

Process of Assessment

Members of the ABE Graduate Committee will review the file and determine whether the transfer is appropriate for the student and for the department.

2. Major Professor

When admitted to Purdue, most ABE graduate students have already chosen a major professor. If not, they will be initially assigned to one. This initial assignment is based on expressed research interest, the research programs of the staff member, and the availability of research funds. Faculty with courtesy or adjunct appointments are members of the graduate faculties of Purdue and may serve as a major professor or an advisory committee member.

3. Coursework and Plan of Study

3.1. Course Requirements

Master's Degree

Minimum requirements for the program are 21 semester hours of graduate coursework beyond the BS level, and an acceptable research thesis that contributes to knowledge in the field of research specialization. The non-thesis MS requires 30 semester hours of graduate work beyond the BS. At least half taken at Purdue University. For either the thesis or non-

thesis option, courses taken must include:

- Three (3) semester hours graduate credit (50000 or 60000 level) of any mathematics and/or statistics course beyond undergraduate requirements.
- At least six (6) semester hours of graduate credit (50000 or 60000 level) in ABE, ASM, or core courses listed for an Area of Specialization (see Appendix B).
- Two (2) semesters of Graduate Seminar, ABE 69400 (typically taken in fall of the first graduate year), and ABE 69600 (typically taken in spring of the second graduate year).
 Class attendance and participation in Graduate Seminar is mandatory and required for graduation. ABE 69400 and 69600 should be recorded on the paper copy of the plan of study that is submitted to the ABE Graduate Committee, but not on the electronic copy submitted to the Graduate School.

The plan of study should provide a well-balanced and integrated program in support of the student's area of specialization. Students on ½ time or ¼ time assistantship should complete 21 credit hours of coursework within the first twelve months of the student's entry into the department. In cases where the student has a heavy initial research involvement due to the nature of the research, 16 months may be required for coursework completion. The coursework total can include up to 3 credits of ABE 59000 (see Appendix E for the Special Topics Contract), or an equivalent designation in another department. Semester-hour credits for courses transferred from institutions on a quarter-hour system are computed by multiplying the number of quarter-hour credits by 0.75.

Doctor of Philosophy Degree

Minimum requirements for the Ph.D. program are 42 semester hours of graduate work, of which at least 21 semester hours must be beyond the MS level, and the completion of an acceptable research thesis that contributes to knowledge in the field of research specialization. This total can include 3 credits of ABE 59000 (see Appendix E for the Special Topics Contract), or an equivalent designation in another department. At least half of Ph.D. course credits must be taken at Purdue University, not including credits taken to complete the MS degree. Semester-hour credit for courses transferred from institutions on a quarter-hour system are computed by multiplying the number of quarter-hour credits by 0.75. The plan of study should be a well-balanced and integrated program including in-depth work in the area of specialization, breadth in Agricultural and Biological Engineering, and a sound mathematical background including:

- At least three (3) credits of graduate coursework (50000 or 60000 level) beyond the MS degree requirements (6 credits total) in any mathematics, and/or statistics course.
- At least six (6) credits of graduate coursework (50000 or 60000 level) in ABE, ASM or core courses listed for an Area of Specialization at Purdue University beyond the MS (12 total). (See Appendix B for course list.)
- Three (3) semesters of Graduate Seminar, ABE 69400, ABE 69600, and ABE 69700. ABE 69400 is generally taken in the first fall semester of graduate studies. ABE 69700 is generally taken after the second year of graduate studies is completed. ABE 69600 is generally taken after the student has compiled enough research results to develop a

departmental seminar on their work. The three Graduate Seminar courses are not to be listed on the electronic plan of study.

Up to 21 semester hours may be waived from the requirements of a completed MS degree. These semester hours should conform to the requirements for the MS outlined above. Individual courses applied to the MS degree from Purdue University or another institution, should not be listed in the Ph.D. electronic plan of study. Instead, the student's major professor and/or Graduate Program Administrator will enter and approve the total number of semester hours applied from a MS, up to 21 total.

3.2. Plan of Study

Each graduate student admitted to a degree program must file a Plan of Study through the myPurdue portal before the end of the first semester of graduate work. The Plan of Study includes the specific courses the student is expected to complete. No courses that have S/U grades, such as research credits (698 or 699), should appear on the Plan of Study.

Waiver of course requirements (only for Ph.D. students with a MS earned from Purdue University or another accredited institution) are subject to the rules described in section 3.1 and are subject to the approval of the student's major professor and ABE graduate committee. Waived courses from another institution will not appear on the Purdue University transcript. Waived courses applied to a MS earned at Purdue University or another institution should not be individually listed in the student's electronic plan of study. The major professor (or designee) will enter and approve the total number of waived credit hours (≤ 21) on the electronic plan of study.

Course credits earned by a student whose graduate study and/or professional activity have been inactive for five years or more cannot be used in a plan of study for an advanced degree. A plan of study approved prior to such a period of inactivity is invalid. A preliminary examination passed prior to such a period of inactivity is invalid.

Filing the Plan of Study

An initial plan of study for the MS degree will be developed as part of each new graduate student's successful completion of ABE 69400, the Graduate Seminar Course.

The Plan of Study Worksheet (Appendix A) should be used to outline coursework and to assure that the coursework fulfills the requirements described in section 3.1. The Plan of Study Worksheet must be approved by the major professor.

The approved worksheet will aid in completing the electronic submission of the plan of study. The Plan of Study is filed electronically and must be completed by the student after his or her major professor has approved. The Plan of Study includes a primary area and related area(s) that are chosen on the basis of the student's interests and needs. It includes the specific courses the student is expected to complete and other requirements of the particular degree being sought. No research credits (ABE 69800 or 69900) or graduate seminars (ABE 69400, 69600, or 69700), should appear on the Plan. No courses taken pass/fail or satisfactory/unsatisfactory may be included in the Plan. The initial Plan of Study must be finalized and submitted for approvals before the end of the first semester in a graduate degree program.

The Plan of Study for a Ph.D. must be filed by the end of the student's first academic semester in the Ph.D. program in order to meet departmental requirements. For students who complete a MS degree at Purdue or at another institution, up to 21 credit hours may be waived, subject to the approval of the major professor and the graduate committee. These courses should not be listed individually on the Plan of Study; instead, the total number of credits waived will be entered and approved by the major professor, or designee. See details in Section 3.1.

After the initial electronic plan of study has completed the approval process, it may be amended at any time, subject to the major professor's and graduate committee's approvals.

Credits from Another University

Credits earned at other universities may be applied toward an advanced degree at Purdue, but only if it can be proven that the specific credits were not used to meet requirements for another awarded degree. Further, only credit hours associated with graduate courses for which grades of B- or better were obtained will be eligible for transfer. Please refer to the Graduate School's policies and procedures for Administering Graduate Student Programs (http://catalog.purdue.edu/content.php?catoid=10&navoid=12788) Section VII, part B. 1. A. 6., part B. 1. B. and B. 1. C. All transfer credits are subject to approval by the major professor and ABE graduate committee.

3.3. Course Registration

Registration for all students should reflect the student's activity as accurately as possible. Any student must be registered for research during each semester or summer session when doing research utilizing faculty direction or consultation, and/or requiring the use of University facilities. Research includes literature reviews and thesis writing. Departmental policy requires that each graduate student supported by an assistantship (teaching or research) must be registered as a full-time student each semester.

In fulfilling degree requirements, a maximum of 18 credit hours will be allowed from any one semester (9 credit hours for the summer session.)

Although the **minimum** registration for full-time status is 8 credits per semester, or 6 credits in the summer, expectations for students funded on research assistantships are higher. **The ABE Department expects students will register for a total of 15 credits during the fall and spring semesters, and 9 credits in the summer. Although this is a general recommendation, circumstances may lead to different levels of research activity in various semesters and therefore graduate students and their advisors should select an appropriate number of credits each semester.**

All MS students must be registered in ABE 69800 (Research MS Thesis) and all Ph.D. students must be registered in ABE 69900 (Research PhD Thesis). ABE 69800 and ABE 69900 should not appear on the Plan of Study but count toward meeting residency requirements. Early registration is recommended. Late registration will result in additional fees.

Completing the Research Syllabus for Registration

Beginning in Fall 2019, the Graduate School instituted a requirement that each student complete a syllabus for each semester of research credit registration. This syllabus includes general expectations agreed upon by a student and their Major Professor for the semester in question.

In ABE, the generic syllabus found in Appendix C is used both to fulfill this requirement and to allow students to register for research credits. The syllabus should be filled out by the student and approved by the Major Professor. Additional requirements, should they be necessary, are entered in the empty block below the general Research Expectations.

After completion, the student should email the form to the Graduate Program Administrator from their <u>@purdue.edu</u> email account, copying their Major Professor, and requesting they respond with approval or edits. Once approval is given (also via the faculty member's <u>@purdue.edu</u> email), the Graduate Program Administrator will enter the research credits and communicate with all parties.

Registration and Billing

When registration is completed, fees and payment schedules will be posted on the myPurdue portal. It is the student's responsibility to provide the correct mailing address to the Office of the Registrar, Bursar's Office, and Agricultural and Biological Engineering Department, for billing purposes.

Students employed through an assistantship or fellowship receive tuition remission, which is processed by the ABE Business Office and the Bursar's Office. Please note that some fees are NOT covered by tuition remission. For example, the College of Engineering charges differential fees, and the university charges student health and wellness fees. For more information regarding fees paid by the students, and for information regarding payment plan options, please visit the <u>Bursar's Office website</u>. Additionally, tuition and fees can be estimated using the <u>Tuition Calculator</u>.

Registration and Holds

To check if you have a Hold on your account that may prevent registration, please login to your myPurdue, and click on the Registration Tab. In the orange "Register for Classes" box, click on the first link - "Do I have any holds?". Common examples of holds that will prevent you from being able to register or obtain official transcripts are:

- Immunizations All Purdue students must have their immunization records on file with Purdue University Student Health (often called PUSH). For office information, see Appendix H.
- **Financial Responsibility** The Division of Financial Aid requires all Purdue students to acknowledge and accept their responsibility for incurred charges. This hold is placed on every student account before spring registration opens each year. For office information, see Appendix H.

- **Emergency Contact** The University requires each student list an Emergency Contact. This hold is also placed on every student's account before spring registration opens each year.
- Outstanding Admission Conditions (such as missing official transcripts or official diploma) This is a hold that you may see in your first semester. Many students fail to provide official transcripts or certificates to the Graduate School upon their arrival to Purdue. This hold means you still need to contact the Graduate School Admissions Office to fulfill an admission condition.

3.4. Grade Requirements

The graduate student is expected to perform on a high academic level. Only grades of C- or better are acceptable in fulfilling graduate school requirements on any plan of study. No more than six credits of "C" grades will be accepted toward graduation. The major professor and the advisory committee may require performance of B or better in certain courses. This requirement must, however, be stated in writing to the student and placed in the student's file at least one month before the student takes the course.

Please note: Pass/no pass grades are not acceptable in fulfilling degree requirements.

All graduate degree candidates must have a minimum of 3.0 (out of 4.0) Grade Point Average (GPA) to graduate. The GPA is computed from all courses on the plan of study. The student's progress will be reviewed each semester by both the Graduate School and the Department. Should the student fail to perform on a level satisfactory to the major professor and the advisory committee, or to the Dean of the Graduate School, he or she may be asked to discontinue graduate study at Purdue University. The same scholastic requirements in effect during the regular university year apply to graduate study during the summer session and in work taken at the university's regional campuses.

In situations where a graduate student does not satisfactorily complete a graduate level course with the grade of C or better, the student may re-enroll in the course only once. The first grade will not be considered in the graduation GPA. If a student receives a D or below in more than one course, the student could lose his/her departmental graduate appointment. In the case of students with fellowships, the sponsor will be notified of the student's unsatisfactory academic performance. A student who falls below the guideline will be notified, in writing, by the Graduate Program Chair and will have one semester in which to raise his/her GPA above 3.0. If the GPA falls below 3.0, the student's grade report will be marked as "low" by the Graduate School. The student must raise their semester GPA above 3.0 the following semester or may be asked to leave the graduate program. A plan of study GPA below 3.0 may result in the loss of the student's assistantship or fellowship.

Graduate students who receive an incomplete grade in any course will have one year from the date the Incomplete was given to receive a completion grade. If that is not done, the Registrar's Office will convert the grade to failing (noted as IF on the official transcript).

3.5. Resident Study Requirements

Resident study is defined as study done under approved supervision at the Purdue University-West Lafayette campus. The Graduate School has residence requirements that are intended to ensure each student has ample opportunity for close association with other scholars in the intellectual environment of Purdue University.

The Graduate School requires that one-half of the total credits for the master's degree and one-third of the total credits for the Ph.D. degree be earned in residence at the Purdue University-West Lafayette campus. The ABE Department requires one-half of the total credits for <u>each</u> degree be earned at Purdue University.

If a student completes all academic requirements but has insufficient residence credits, a letter of explanation from the major professor and the ABE Department Head should be forwarded to the Dean of the Graduate School, justifying the deficiency. If justification is sufficient, the Dean of the Graduate School may waive part of the residency requirement as an exception.

4. Graduate Research

4.1. Advisory Committee

Each student must select an advisory committee. The major professor will help identify faculty members who have expertise in the area of research or professional interest. The advisory committee will advise on courses selected for the plan of study, and as needed during the course of graduate studies. Since the advisory committee must approve plans of study, research project outlines, and theses, the student is responsible for keeping committee members informed of his/her progress. Failure to meet the filing deadlines may result in loss of a student's graduate assistantship, until the process has been satisfactorily completed.

The advisory committee for a master's degree consists of the major professor and at least two other members of the graduate faculty. For a MS degree, all committee members can be from ABE, or 1 member can be from outside of the department. For a Ph.D. degree, the advisory committee should consist of the major professor and at least three other members of the graduate faculty, with <u>at least one</u> being from outside the Department of Agricultural & Biological Engineering.

4.2. Integrity in Research

Integrity in research is an essential part of Purdue University's intellectual and social structure, and adherence to its spirit and principles must be maintained. These principles include commitment to truth, objectivity, fairness, honesty, and free inquiry. Violations of integrity may result in dismissal from the university.

Serious violations of integrity in research are rare. However, those that do occur strike at the very heart of scholarship and the concept of the university. Advances in scientific

knowledge depend on reliable data and honestly reported conclusions. In any academic institution, scholars, researchers, and artists have a special obligation to exemplify the best qualities and highest standards of personal and professional conduct.

All ABE students are required to complete the online training course on Responsible Conduct of Research developed by the Collaborative Institutional Training Initiative (CITI) available at https://www.purdue.edu/gradschool/research/rcr/. This is a requirement of the ABE 69400 seminar. Students should also be familiar with policies on responsible conduct of research at the above website.

5. The Preliminary Exam for Ph.D. Students

Admission to candidacy for the degree of Doctor of Philosophy takes place only after the student has passed the preliminary examination. (Note that this is not the same as candidacy for graduation.) After admission to candidacy, a Ph.D. student must devote at least two semesters to research before taking the final examination. Request for the final examination must be made at least two weeks prior to examination date.

5.1. Preliminary Exam for Ph.D.

Advancement to Ph.D. candidacy requires successfully passing preliminary examinations by the student's graduate committee. A student must be enrolled for 2 full semesters (summer is counted as a semester) between successful completion of the preliminary exams, and the defense of the dissertation, (e.g. If the prelim is completed in Fall 2019; the final defense can be held in Fall 2020 or later).

The preliminary examination process includes written and oral examinations. Both the written and oral examinations are administered by the student's major professor and the preliminary examining, or thesis advisory committee. These examinations are to determine if the student has an adequate understanding of his/her research program, has a reasonable plan for completing the research, and has the necessary academic background and capability to successfully conduct the research. The preliminary examinations consist of three parts: 1) written examination, 2) research proposal, and 3) oral examination.

The written examination should be comprehensive and should include subject matter other than material directly related to the student's specific Ph.D. research topic. The format and content of the written examination is developed by the student's major professor and the preliminary examining/thesis advisory committee. The written examination will be given to the student with clear instructions for completion, allowable resources to be used, etc. The written examination will be submitted to the major professor and preliminary examining/thesis advisory committee upon completion. The graded exam will be returned to the student in a timely manner by the examining committee. The written exam must be passed before proceeding to the oral examination.

The **research proposal** should follow a format as determined by the student's major professor and preliminary examination/thesis advisory committee. A general outline that

may be followed is shown below. Specific expectations for the format, length, and content of the research proposal should be set by the major professor and communicated to the student. The research proposal should be submitted to the examining/thesis advisory committee at least two weeks prior to the oral examination.

Suggested Research Proposal Outline:

- 1. Justification of Research Question(s)
- 2. Dissertation Goals or Objectives
- 3. Summary of Preliminary Results
- 4. Proposed Methodology
- 5. Anticipated Results
- 6. Timeline

The **oral examination** should include a presentation by the student summarizing their research proposal. As students should be meeting with their advisory committee on an annual basis to discuss their research progress, the presentation normally provides an update on prior results, or a summary of work to date. The bulk of the oral presentation should focus on the proposed methodology, data collection plans, data analysis, anticipated results, and timeline. The exact format, length, and content should be followed as directed by the major professor. The preliminary examination/thesis advisory committee is expected to ask the student questions about their research and any other relevant topic, including material from their written exam.

At least 2 weeks prior to the oral examination, a Request for Appointment of Examining Committee (electronic G.S. Form 8), must be filed by the student and approved by the student's major professor. At or after the oral exam, committee members will be asked to complete the Rubric for Research Proposal and Preliminary Exam.

If the report of the examining committee is unfavorable, the student may repeat the examination after the lapse of at least one semester, at the recommendation of the examining committee. Should the preliminary examination be failed twice, the student may not be given a third examination, except on the recommendation of the examining committee, and with special approval of the Graduate Council.

Please refer to the following chart for a simplified outline of this timetable:

Preliminary Exams Timeline

What	When
Confirm that your plan of study has been approved by the Graduate School.	At the beginning of the semester in which you take your exams.
Discuss the schedule and format for your preliminary exams and research proposal with your major professor.	Near the beginning of the semester in which you take your exams.
Complete your Written Preliminary Exam.	At least 3 weeks before your Oral Preliminary
	Exam is scheduled.

Submit electronic Form 8 to Graduate School.	At least 2 weeks before the Oral Preliminary Exam.
Submit your Research Proposal to your committee.	As directed by your major professor (2 weeks before your Oral Preliminary Exam is common).
Complete your Oral Preliminary Exam.	At least 2 weeks after submitting GS Form 8, but before the published semester deadline.

For information regarding how to submit an electronic Form 8, visit https://www.purdue.edu/gradschool/downloads/ExamForms Guidelines.pdf

6. Thesis and Defense

6.1. Declaring Candidacy for Graduation

Graduate students must declare candidacy for the semester in which they intend to defend their thesis or dissertation and have their degree awarded. The Graduate School Deadlines Calendar provides the dates by which requirements must be completed, normally 1-2 weeks before the end of the semester. It is the student's responsibility to communicate graduation intentions with their major professor and the Graduate Program Administrator during the registration period for any given semester. Candidacy for graduation is only valid for one semester and does not carry forward to other semesters if the thesis/dissertation defense and submission deadlines are missed. Should a student miss the deadlines for graduation, they can register as many times as needed. However, any student registered for candidacy in 3 consecutive semesters will be assessed a \$200 fee by the Graduate School.

A "CAND" course, either 99100, 99200, or 99300 should appear on the student's registration for the appropriate semester of their graduation.

It is the student's responsibility to confirm that the coursework on their plan of study matches the coursework actually taken at Purdue.

Appropriate CAND course registrations:

CAND 99100	CAND 99200	CAND 99300
(General Candidacy)	(Degree only)	(Exam only)
Students plan to fulfill all	Students must have met all	Students must have met all
requirements during the	degree requirements, except for	degree requirements, except for
semester. (See <u>Graduate School</u>	depositing. Satisfactory	defending and depositing.
<u>Deadlines Calendar</u> for due	research is required in the	Satisfactory research is required
dates.)	previous session, and students	in the previous session, and
	must meet a mid-semester	students must meet a mid-
	deadline.	semester deadline.

^{*}If assistance is needed in deciding which CAND course is correct, contact the ABE Grad Program Administrator.

CAND 99200 and CAND 99300 are considered a "privileged registration" status which results in lower fees, but **not** in full-time student status. As a general rule, students

registered for CAND 99200 or 99300 may NOT be funded (supported). Be aware that most students who select option 2 or 3 leave campus before semester's end.

6.2. Thesis or Dissertation

The final product of most graduate research programs is a thesis or a dissertation. This document represents the diligent and original work of the student. Care should be taken to be sure this document is of high quality. The thesis or dissertation must be distributed to the advisory committee at least two weeks before the final exam is given. Please see Appendix G and visit the Thesis/Dissertation Office's website for instructions regarding formatting, running iThenticate, and other submission questions.

The Graduate School requires a specific format for all theses and dissertations. Detailed information on formatting your thesis or dissertation can be found at the Graduate School's Thesis/Dissertation Office Website: http://www.purdue.edu/gradschool/research/thesis/. Each student is responsible for completing and submitting these as required by the Graduate School. In the ABE Department, authority for approving the thesis/dissertation format has been delegated to chairs of the final examining committee.

6.3. Final Exams

A final oral examination is taken after the completion of all course work and the thesis or dissertation. This exam may cover any material in the candidate's program, but typically is a defense of the thesis or dissertation. In the case of Ph.D. candidates, at least two semesters of devoted research must lapse between the semester of the preliminary exam and the semester of the final dissertation examination.

Final examination requests must be approved by the Department Head and received by the Graduate School at least two weeks before the examination date. A final oral examination will be given to candidates before the completion of requirements of the graduating student. Once you have passed the final examination for your degree, your chair and examining committee members will electronically sign the Graduate School Examination Report (GS Form 7 for master's candidates or Form 11 for doctoral candidates). Once other required signatures are secured, the report is finalized in the Graduate School.

Students should have paper copies of the appropriate rubrics for each member of their committee. Committee members should complete the rubric forms and submit originals or copies to the Graduate Program Administrator and provide a summary to the student.

Please refer to Appendix F for the ABE Timelines.

6.4. The Deposit Process

Both MS and Ph.D. theses/dissertations are required to be submitted electronically to the Purdue Graduate School for review. An electronic PDF file of all theses/dissertations will be uploaded to the Hammer Research Repository (HammerRR). A final copy of the thesis/dissertation should be delivered to the major professor and committee members, or

as the major professor dictates. Please visit the Thesis/Dissertation Office's Deposit Process website for more information:

https://www.purdue.edu/gradschool/research/thesis/requirements.html and review Appendix G for a simple checklist or visit the website listed above for complete documentation.

7. Other Policies

7.1. Graduate Students' Right to Appeal

Student Conduct

Graduate students, like all students officially enrolled at Purdue University, are subject to all university regulations. At the same time, their rights as individuals and as students are duly protected. Graduate students who feel that their rights have been violated by a disciplinary decision may seek redress through the Community Standards Board, according to procedures specified in <u>Regulations Governing Student Conduct</u>, <u>Disciplinary Proceedings</u>, and <u>Appeals</u>, Section C-8 of the University Regulations, Student Conduct Policy.

Academic Standards

Graduate students must be proactive in matters pertaining to their academic program, coursework, and research. It is recommended that all graduate students in ABE meet with their advisor at the beginning of each semester to be certain both the student and advisor understand and agree upon expectations regarding registration, research credits, and other academic matters. While this should help avoid any major issues before they arise, there are Graduate School and University processes in place should more guidance be necessary.

Graduate students who wish to appeal decisions concerning matters of academic standards may seek redress according to procedures specified in the Student Conduct Policy, Regulations Governing Student Conduct, Disciplinary Proceedings, and Appeals, Section E-Grade Appeals System, of University Regulations and to the procedures detailed in Graduate Council Document 91-C which have been established in accordance with the authority thereby delegated to the Graduate Council. Further information regarding graduate student Appeals Concerning Academic Standards can be found in the Policies and Procedures for Administering Graduate Student Programs, section IX, A. Student Conduct and Rights of Appeal.

7.2. Nondiscrimination Policy Statement

Purdue University is committed to maintaining a community which recognizes and values the inherent worth and dignity of every person; fosters tolerance, sensitivity, understanding, and mutual respect among its members; and encourages each individual to strive to reach his or her own potential. In pursuit of its goal of academic excellence, the University seeks to develop and nurture diversity. The University believes that diversity among its many members strengthens the institution, stimulates creativity, promotes the exchange of ideas, and enriches campus life.

Purdue University views, evaluates, and treats all persons in any University related activity or circumstance in which they may be involved, solely as individuals on the basis of their own personal abilities, qualifications, and other relevant characteristics.

Purdue University prohibits discrimination against any member of the University community on the basis of race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability, or status as a veteran. The University will conduct its programs, services and activities consistent with applicable federal, state and local laws, regulations and orders and in conformance with the procedures and limitations as set forth in Purdue's Equal Opportunity, Equal Access and Affirmative Action policy which provides specific contractual rights and remedies. Additionally, the University promotes the full realization of equal employment opportunity for women, minorities, persons with disabilities and veterans through its affirmative action program.

8. Professional Development

8.1. Professional Societies

Attendance at professional meetings and membership in professional societies is encouraged. In most cases travel and lodging are the student's personal responsibility except in cases where project funds are available for this purpose. The Department often arranges a van to attend the annual American Society of Agricultural and Biological Engineers meeting. Many professional and research associations have branches on campus such as Sigma Xi and Alpha Epsilon. Students are expected to be active in professional societies while pursuing advanced degrees at Purdue University.

8.2. ABE Graduate Student Association

Students are encouraged to participate in the Agricultural and Biological Graduate Student Association. The ABE GSA is an organization made up of graduate students dedicated to improving the experience of their fellow graduate students in the ABE department at Purdue University. Please visit their website for more information: https://engineering.purdue.edu/abegsa/

9. Graduate Student Employment

9.1. Workloads of Students with Graduate Staff Appointments

Most graduate students in the Agricultural and Biological Engineering Department are supported by half-time research or teaching assistantships. Purdue, like many other major research universities, assumes that a half-time appointment constitutes a contract for 20 hours of service per week. If an assistant's duties are independent of the student's course work and research, the definition of the half-time work load is relatively straight forward: not more than 20 hours per week.

All graduate assistants should realize that research relating to their degree is not included in the 20 hours, and must be done in addition to the 20 hours the half-time appointment involves. Nearly all students will register for research course hours (ABE 69800 or ABE 69900) every semester to account for the time spent on research in the lab, field, or desk each week beyond their work as a research or teaching assistant. Disputes between graduate assistants and major professors should be discussed between the parties involved, and moderated by the Department Head if necessary. See the Purdue University Graduate School Policies and Procedures for Administering Graduate Student Programs in the University Catalog: http://catalog.purdue.edu/ for additional information.

For those students on ¾ or full time assistantships, the time guidelines delineated above will be modified to account for the reduced course load restrictions due to such appointments.

To be eligible to hold a graduate staff appointment during any session, an individual must be enrolled as a degree-seeking graduate student and be registered full time for the duration of each semester during the entire appointment period. Graduate staff on appointment during the summer are obligated to register for a minimum of 9 graduate hours during at least one of the summer modules.

9.2. Vacation and Sick Leave Policy

As staff of the department, graduate research assistants receive 22 days of vacation per year. These vacation days do not automatically occur during university breaks, unless vacation is requested. To request vacation or other absence from the Department, fill out Form 33a (available online), have it signed by your supervisor, and turn it in to the business office one week before vacation. Those graduate assistants employed only during the academic year are not paid during university breaks and are not required to use Form 33 during this time.

The official policy reads as follows: Graduate student staff employed on a fiscal-year basis may be granted a maximum of twenty-two (22) working days of vacation per fiscal year. Vacation will be granted at the student's normal rate of pay. Vacation leave credits begin to accrue in accordance with the schedule below from the date of the graduate student's employment up to a maximum of 22 working days per fiscal year. Vacation credits accrued in excess of 22 working days are forfeited.

- One day in the month of of September and March
- Two days in all remaining months

Staff members are not eligible to use paid vacation leave until they have completed three months of service.

Graduate student fiscal-year staff terminating their employment with the University forfeit any unused vacation allowance. This allowance will not be paid to the staff member, nor may their appointment be extended to cover any unused vacation.

Official holidays are announced annually by Purdue's president and provide for additional leave days.

Up to two weeks (10 working days) per year sick leave and 15 working days per year military leave (with pay) may also be granted. Benefits-elegible graduate staff are eiligible for paid bereavement leave due to death in the immediate family. Up to five workdays over six consecutive calendar months are allowed. Up to one workday for the death of extended family members, or fellow employees. All graduate students must complete a sick leave form upon returning to work for time missed due to illness.

For specific details regarding leave, bereavement, sick leave, etc. please see the Graduate Student Employment Manual, available at:

http://www.purdue.edu/gradschool/documents/gpo/graduate-student-employment-manual.pdf

9.3. Student Offices

Graduate students that are employed by the ABE Department are assigned office space, as available, when they begin their studies. The ABE Schedule Deputy is in charge of assigning office space. Any requests for changes in the graduate student offices must be submitted to the Schedule Deputy.

9.4. **Keys**

Graduate students are also assigned keys so that they can enter the building after it is officially closed. The outside doors are open to the public Monday- Friday 6 a.m. to 8 p.m. A key request form can be obtained from the ABE Administrative Assistant. The form should be signed by the major professor and returned to the ABE Administrative Assistant to obtain keys. Keys must be returned and the proper space on the checkout sheet signed by the Department Head before your degree will be awarded and your last paycheck approved.

9.5. Travel

Travel Requests and Reimbursement

Requests for university-related travel outside Tippecanoe County must be submitted at least two weeks in advance. Trip requests are completed electronically through Purdue's Concur Travel System. Requests for reimbursement of travel expenses are made through Purdue's Travel System once the traveler returns and has completed the expense report. Reimbursements may not be made for trips for which prior approval was not requested and granted. Please inquire with the ABE Business office to help through this process. See the following web page for more detailed information:

http://www.purdue.edu/business/travel/index.html

Departmental Vehicles

Vehicles are available in ABE for transportation on project work. Students using these vehicles must possess a valid U.S. drivers' license. Please be aware that you will need to

allow approximately 5 business days for processing of Driver Authorization Requests, which must be secured PRIOR your first use of a Departmental Vehicle. The Driver's Authorization form is completed through iLab under ABE's Vehicle Recharge. Please inquire through the Business Office on the process.

ABE Vehicles are to be reserved through the iLab System. Keys can be obtained for those vehicles from the Main Office. Univeristy Vehicles are reserved through Transportation Department using the Form 1. The Main Office can help with this process. Vehicle problems and accidents are to be reported to the Building Deputy. Seat belt use is mandatory in all university vehicles.

University Transportation

For trips which may take more than one-half day, cars and vans may be obtained from the University Transportation Department (https://www.purdue.edu/transportation/). The vehicle must be requested in advance by telephone or email, and the Vehicle Rental Form (Form 1) filled out and signed by the ABE Business Office. It must be presented to the University Transportation Service when picking up the vehicle. Students using university vehicles must possess a valid driver's license and are an approved driver through Risk Management.

9.6. Safety

All graduate students are required to attend a Hazard Communication training session. This will include a short segment on the proper use of Personal Protective Equipment. The training will be conducted in the ABE Department by the Safety Committee Chair.

10. Resources for Graduate Student Research

10.1. Fabrication of Research Equipment

Research equipment is often constructed for specific projects. The Department and University can provide students with help in the construction of this equipment. The departmental Shop Manager can provide assistance and advice for your specific research needs.

Shop

The express purpose of the shop is to build or assist in building research apparatus along with assisting with senior design projects. It is not for personal use. The procedure for obtaining assistance in the shop is as follows: (1) in consultation with your major professor determine what type of equipment is needed for your research; (2) develop an engineering drawing clearly showing the apparatus desired, giving necessary dimensions, sizes, type of material, and notes for its fabrication; (3) provide an account number for acquisition of components and material; (4) discuss your project with the Shop Manager. In some cases it may be necessary for you to assist the Shop Manager or his assistants in the work.

There is a short safety training course required for students to work in the Shop. Students with Machine Shop experience are allowed to assist with projects. The Shop hours are 7:30-3:30 Monday-Friday.

Tools

Tools may be borrowed from the ABE Shop. Return tools as promptly as possible. If you break a tool, inform the Shop Manager so it can be replaced or repaired. If you need a certain tool and do not find it, ask the Shop Manager for assistance. Tools can be borrowed from other University Shops.

Research Machining Services

Research Machining Services (RMS) is equipped and staffed to perform work requiring precision machining, machining on large work pieces and specialized fabrications which cannot be performed economically in departmental machine shops. Material for student projects can be purchased from RMS by going through the ABE Machine Shop Manager. Work orders are available from the Machine Shop Manager and must be submitted by the Machine Shop Manager.

10.2. Printing and Photocopying

Use of the photocopiers for research must be approved by your major professor. Duplicating services are also available at several locations on campus. Each student is expected to pay the cost of reproducing their thesis/dissertation. Physical copies of the thesis/dissertation are not required for submission, but students should ask their major professor if they want a physical copy before printing.

To make copies for your Major Professor, obtain their copy code from them. See the main office for help.

10.3. Purchasing Supplies

University Stores

The university has several stores that handle commonly used materials. To order materials, consult with your major professor about your needs and obtain the stores requisition forms from the Business Office.

Requisitions

Most supplies and equipment should be ordered by regular requisition. After equipment and supply needs are approved by the major professor, the student should complete the information for requisition forms and submit them to Ag Purchasing at agpurchasing@purdue.edu.

A number of standing orders are set up with local suppliers to expedite work on projects. A list of standing orders may be obtained from the Business Office. Materials may be obtained directly from these suppliers, with the approval of the major professor and the completion of a ship order form. The ship order is available from the Business Office.

Students can check out the departmental credit card for purchases from local vendors from the Business Office with the approval of their major professor.

11. Beyond Research: Taking Advantage of Life at Purdue

Purdue University, as one of the world's great universities, provides valuable opportunities for learning beyond the classroom, laboratory, and field research sites. While you have many responsibilities to fulfill as an ABE graduate student researcher, you are also encouraged to take advantage of the unique resources to which you have access while you are a student here.

- Getting to know other ABE graduate students is a great benefit of being at Purdue. The ABE Graduate Student Association (https://engineering.purdue.edu/abegsa/) works to foster a sense of community among ABE graduate students through organized social activities, philanthropy events, mentoring, and professional development programs, and all graduate students are encouraged to participate. Purdue ABE graduate students come from around the world, and being part of such an international community is an opportunity to get to know and celebrate our diverse cultures that you are unlikely to have again in the future.
- Extracurricular: ABE graduate students are active in many extracurricular activities, including organized athletics, classes at the co-rec, activities at the LGBTQ center, religious activities, and cultural organizations of many nations and cultures. Purdue's cultural centers are listed at https://www.purdue.edu/diversity-inclusion/about-us/departments.html, and clubs representing many interests can be found at https://boilerlink.purdue.edu/. These activities can provide balance and enrichment in your life while serving others, and graduate students are encouraged to get involved.
- Graduate Women in Engineering organizes networking and professional development events. https://www.purdue.edu/wiep/CurrentStudents/GraduateWomenInEngineering/Join-GWEN.html
- Personal development: Purdue offers courses in a wide variety of topics, and registration for additional courses (up to 18 credits in the fall and spring, and up to 9 credits in the summer) does not increase your tuition. Talk with your major professor about taking additional courses to meet your professional and personal development goals; in most cases if you keep up with your research and plan of study it will be welcome. These courses will not count towards your degree requirements. You can also audit courses if you receive permission from the instructor and register as an auditor with the appropriate from required by the Registrar's Office.
- **Health and Wellness:** Purdue provides a variety of health and wellness programs including general wellness, nutrition services, massage therapy, and more. For more information please visit https://www.purdue.edu/recwell/programs/wellnessPrograms/.

The Graduate School provides links to many other opportunities at https://www.purdue.edu/gradschool/student/services/.

Appendices

Appendix A: Plan of Study Worksheet (See Section 3 of ABE Grad Manual for details) Agricultural & Biological Engineering

NOTE: Student must enter his/her Plan of Study in the Graduate School database found by logging into myPurdue, under the Academics Tab, Graduate School link. See Section 3 of Manual for details.

Current Program of Study

Current Degree Program (courses listed below w	ill be includ				nic Plan of Stu	dy, or eP0	OS)
□ MS			•				,
☐ PhD with prior MS							
☐ PhD (no MS)							
Primary: Mathematics or Statistics							
(Any Math or Stat – minimum 3 credits for MS, 6	credits for	PhD v	witho	ut MS)			
COURSES					Campus		
		Co	urse	Credit	where		Date
Official Title (Abbreviated)	Subject		#	Hours	completed	Grade	Completed
Total Credit Hours:							
Primary: Area of Specialization Core Courses							
(Minimum 6 credits for MS, 12 credits for PhD wi	thout MS)				.		
COURSES	1			1	Campus		
			urse	Credit	where		Date
Official Title (Abbreviated)	Subject	t #		Hours	completed	Grade	Completed
Total Cradit Hours							
Total Credit Hours:							
Secondary: Other Related Areas							
COURSES					Campus		
			Cour	se Cre			Date
Official Title (Abbreviated)	Sub	ject	#	Ηοι	irs completed	Grade	Completed
							+
							<u> </u>
Total Cradit Hours							
Total Credit Hours:	prior NAC1	or 41) /DL	D w:+b-	Sut NACI		
Minimum Course Credits: 21 (MS or PhD with ABE 69400 MS/PhD Beginner Seminar (Fall):		OF 44	2 (PN	ש witho	out IVIS)		
ABE 69600 MS/PhD Beginner Seminar (Fail): ABE 69600 MS/PhD Research Seminar (Spring):							
ABE 69700 PhD Professional Seminar (Spring):							

Prior Graduate Degree

rior Graduate Degree:	Degree-gran	ting Unive	city				Date	Δward.	ad.	
□ ME		Degree-granting University: Date Awarded:								
	•	(Purdue, etc.)								
☐ Other Department or School: (ABE, ASM, ME, CHE, etc.)										
	(ABE, ASM, N	VIE, CHE, et	C.)							
Primary: Computations										
Any Math or Stat – minimur		without MS)			1	1			
	COURSES	1	-			Camp				
				urse	Credit	wher			Date	
Official Title (Ab	breviated)	Subjec	t i	#	Hours	comple	ted	Grade	Completed	
			•							
otal Credit Hours:										
rimary: Area of Specializat										
Minimum 12 credits for PhD	COURSES					6				
		Τ.		6 10	Camp			5.		
055 : 1701 (41				urse 	Credit	wher		Cl -	Date	
Official Title (Ab	breviated)	Subjec	t i	#	Hours	completed		Grade	Completed	
otal Credit Hours:										
econdary: Other Related A										
	COURSES				1		mpus		Data	
				Cou		200	completed		Date Complete	
Official Title (Abbreviated)	Si	ubject	#	Ho	urs com	ipicteu	l Grade	Complete	
				1						
				_				>		
otal Credit Hours:						urs to V	/aive	<u> </u> (≤ 21) _		
Minimum Course Credits: 2	-	MS) or 42	(PhD				/aive	<u> </u> (≤ 21) _		
Minimum Course Credits: 2 ABE 69400 MS/PhD Beginne	r Seminar (Fall):		(PhD				/aive	<u> </u> (≤ 21) _		
Minimum Course Credits: 2	r Seminar (Fall): h Seminar (Spring): _		(PhD				/aive	<u> </u> (≤ 21) _		

Appendix B: Core Courses for Areas of Specialization

Biological Engineering and Technology

Core Courses

Course	Description
ABE 54000	Principles of Systems & Synthetic Biology
ABE 56000	Biosensors: Application and Fundamentals
ABE 58000	Process Engineering of Renewal Resources
ABE 59100/EEE 59500	Bioproducts Engineering
ABE 62700	Colloidal Phenomena in Bioprocessing
ABE 69100	Transport Phenomena in Food and Bioprocess Engineering
ABE 69100/BME 69500	Quantitative Systems Biology
AGRY 59800/60000	Genomics
AGRY 64900	Molecular Microbial Ecology
ANSC 59500	Molecular Microbiome Analysis
BCHM 56100	General Biochemistry I
BCHM 56200	General Biochemistry II
BCHM 61200	Bioinformatic Analysis of Genome Scale Data
BCHM 62000	Protein Mass Spectrometry & Proteomics
BIOL 51600	Molecular Biology of Cancer
BIOL 52900	Bacterial Physiology
BIOL 54100	Molecular Genetics of Bacteria
BIOL 59500	Methods and Measurements in Physical Biochemistry
BIOL 60000	Bioenergetics
BME 59500	Problems in Measurement of Physiological Events
BMS 52400	Introduction to Confocal Microscopy and Image Analysis
CHE 52500	Biochemical Engineering
CHE 69700	Metabolic Engineering
CHM 53800	Molecular Biotechnology
CHM 62000	Spectrochemical Instrumentation
CS 59000	Computing for Life Sciences
FS 59100	Microbial Genomes & Metabolism

^{*}One Credit "Hands on" courses relating to Analytical or Biomolecular Techniques (HPLC; GC-MS; Genetics, Bioinformatics, etc.) will be counted upon petition to, and approval of, the course contents by the Graduate Committee with the consent of the advisor.

Fluid Power

Core Courses

Group A – Fluid Power Theories and Applications

ABE 43500 Hydraulic Control Systems for Mobile Equipment

ABE 59100 / ME 59700 Design of Fluid Power System

ABE 69100 Hydraulic Power Trains and Hybrid Systems

Group B – Supporting Topics

ABE 54500 Design of Off-Highway Vehicles ME 55600 Lubrication, Friction, & Wear

ME 57500 Theory and Design of Control Systems

ME 58500 Instrumentation for Engineering Measurements

The courses in **Group A** cover fluid power theories and applications. Courses in **Group B** are important to the design, modeling, optimization, and control of fluid power systems.

At least half of a student's Fluid Power Core ("Area of Specialization Core Courses" on the Plan of Study) must be drawn from Group A.

Ecological Sciences and Engineering

Core Courses

All ESE students must take:

- A minimum of 3 credits of the ESE Seminar.
- Recommended for all students but required of all Non-thesis MS only: 2-credit integrating Maymester course or Summer Internship experience

All students must take during their degree program or have taken in their previous degree program the following courses:

- Biology 59500 (Ecology) 3 credits
- One course (3 credits) in the area of Environmental Policy, Economics, Human Dimensions, and/or Institutional Analysis
- GRAD 612 (Responsible Conduct in Research) 1 credit or comparable course
- One course each from two of the four of the following ESE cores:
 - o Life Cycle Thinking/Sustainable Design Core
 - Biogeochemistry
 - Hydrological Sciences
 - Ecosystem Analysis Tools

An updated listing of courses for each core area is available in an Excel file on the ESE web site.

At least one professional development activity is also required.

Appendix C: ABE Syllabus for Research Credits

AGRICULTURAL AND BIOLOGICAL ENGINEERING

Graduate Student

RESEARCH REGISTRATION FORM

PUID				_	Term			Year	
NAME									
LAS	ĬΤ			FIRS	Г		MI		
				RESEA	RCH COURSE INFO	RMATION	N		
Add Drop Modify	CRN	SUBJECT	COURSE #	Credit Hours		С	ourse 1	Name	
Α		ABE	698/699						
Α		CAND	991/992/ or 993	0	(USE IF YOU WILL BE ABOVE)	GRADUAT	TING AT	THE END OF THE TE	ERM LISTED
				RE	SEARCH EXPECTAT	IONS			
i) conductir ii) actively p iii) contribut iv) following v) following vi) contribut vii) meeting By signing allowing the regard to ex	g independ participating ting to over g all safety g ethical res ting to the v g the docum- up for resec- e student to spectations	dent researd g in researd gli operation guidelines a earch pract written and nented expe arch credits s sign up for articulated	ch on the ba h at a level ns, and expecta ices, oral dissem ectations of the studen research of for the sem	ackground consisten tions assi ination of the thesis at acknow redits, the nester, the	easonable progress in so d, motivation, and prior w it with a professional rese ociated with the research research findings, and advisor. dedges agreement with the faculty member acknow e student will receive a sa box below to note them.	ork related earch position environm ne expecta dedges that stisfactory	to the p tion, ent, ations set at if the s	rimary subject of the r t forth by the faculty m tudent's progress is a	esearch project,
	check all	l that app	ly:			Acl	knowle	dgement of Expe	ectations
Te	aching A	ssistantsh	nip						
Re	search A	ssistantsl	hip			SIC	GNATU	RE OF STUDENT	DATE
As	sistantshi	ip/Fellows	ship						
						SI	GNATU	RE OF ADVISOR	DATE

Appendix D: Forms and Rubrics for Graduate Outcome Assessment

PhD Dissertation and Defense Rubric

Student Name:			
Major Professor(s):			
Committee Member Name (please print):			
Signed: Date:			
Thesis <u>Document</u>	Does not meet expectations	Meets Expectations	Exceeds Expectations
Quality of Science/Engineering			
Clearly define the research problem and the motivation for research			
Demonstrate understanding of subject matter and associated literature			
Develop and describe appropriate research methods/tools			
Analyze and interpret results/data effectively			
Demonstrate theoretical or applied significance			
Demonstrate critical thinking skills			
Quality of Writing			
Demonstrate adequate writing			
Use logical organization			
Overall Assessment			
Thesis <u>Defense</u>	Does <u>not</u> meet	Meets	Exceeds
Overall Quality of Presentation			
Clearly organize and present the material			
Demonstrate communication skills			
Overall Breadth of Knowledge			
Demonstrate depth of knowledge in subject matter			
Demonstrate critical thinking skills			
Quality of Responses to Questions (complete, well presented)			
Overall Assessment			

PhD Dissertation Research Proposal, Written Prelim, and Oral Prelim Rubric

Student Name:			
Major Professor(s):			
Committee Member Name (please print):			
Signed: Date:			
	+		
	Does not meet expectations	SUS	SUS
	Does not mee expectations	Meets Expectations	Exceeds Expectations
	es i	bec bet	Exceeds Expectati
Research Proposal		ĕ X	ЖĞ
Overall Quality of Science			
Clearly define the research problem and the motivation for research			
Demonstrate understanding of subject matter and associated literature			
Develop and describe appropriate research methods			
Demonstrate critical thinking skills			
Contribution to the Discipline			
Potential for discovery			
Demonstrate theoretical or applied significance			
Quality of Writing			
Demonstrate adequate writing Use logical organization			
Overall Assessment			
Written Preliminary Exam			
Overall Quality of Responses			
Quality of response to written exam questions			
Demonstrate critical thinking skills			
Exhibit understanding of subject matter, theoretical concepts, and pertinent			
literature			
Quality of Communication Skills Demonstrate adequate writing	Т	Т	
Use logical organization			
Overall Assessment			
Oral Preliminary Exam			
Overall Quality of Responses			
Quality of response to oral exam questions			
Demonstrate critical thinking skills			
Exhibit understanding of subject matter, theoretical concepts, and pertinent			
literature Quality of Communication Skills			
Demonstrate communication skills			
Overall Assessment	1 1		

MSABE or MS Thesis Defense Rubric

Student Name:			
Major Professor(s):			
Committee Member Name (please print):			
Signed: Date:			
Thesis <u>Document</u>	Does not meet expectations	Meets Expectations	Exceeds Expectations
Quality of Science/Engineering			
Clearly define the research problem and the motivation for research			
Demonstrate understanding of subject matter and associated literature			
Develop and describe appropriate research methods/tools			
Analyze and interpret results/data effectively			
Demonstrate theoretical or applied significance			
Demonstrate critical thinking skills			
Quality of Writing			
Demonstrate adequate writing			
Use logical organization			
Overall Assessment			
Thesis <u>Defense</u>	Does not meet	Meets	Exceeds
Overall Quality of Presentation			
Clearly organize and present the material			
Demonstrate communication skills			
Overall Breadth of Knowledge			
Demonstrate depth of knowledge in subject matter			
Demonstrate critical thinking skills			
Quality of Responses to Questions (complete, well presented)			
Overall Assessment			

Appendix E: ABE/ASM 59000 Special Topics Contract Instructions

The ABE/ASM 59000 contract is completed by the student, and constitutes an agreement between an advisor and a student/group of students for individual/small group study of a special problem in a selected area. ABE/ASM 59000 is used for independent study equivalent to an academic course, and should not be used for research projects. The 590 contract must be submitted to the ABE Graduate Program Administrator at least one month prior to the first day of classes of the semester in which the course is to appear. The contract is then sent to the Chair of the Graduate Committee for approval, which must be secured **prior to registration**. Approved copies will be distributed to the Academic Advisor and the 59000 Instructor.

In order to complete the 59000 contract, follow the links below, or visit the ABE Graduate Student website: https://engineering.purdue.edu/ABE/foryou/graduate, then click on the "Current Students" box. Choose from the following options:

- ABE/ASM 590 (contract course) form
- ABE/ASM 590 (contract course) form <u>GEAPS</u> version (Grain Elevator and Processing Society)

If you are looking to complete an internship with credit connected to professional studies, the 59000 contract should be used to register for course credits. This includes <u>CPT</u> (practical training that takes place during your studies) or <u>OPT</u> (practical training that occurs after your studies end), and is a variable credit course allowing for 1 - 6 credit hours of registration.

*If you are an international student, please note there are additional steps to complete with ISS regarding CPT and OPT. Please arrange to meet with an ISS counselor before filling out the 59000 contract for use with CPT or OPT!

Instructions:

- 1. Once you have printed the form and met with your Major Professor or course instructor, fill out the items required and sign the form.
- 2. Obtain the signature of the course instructor (this may be your Major Professor). If you need help filling out the contract, start with your MP, then see the Graduate Program Administrator.
- 3. Take form to the Graduate Program Administrator, as the Chair of the Graduate Committee will need to approve and sign the contract as well.
- 4. Once these approvals are in place, obtain a form 23V from the Graduate Program Administrator to register.

Agricultural and Biological Engineering Department ABE 59000 or ASM 59000 – Special Problems

If you are creating a 59000 to receive credit for taking a GEAPS (Grain Elevator and Processing Society) course, please use the ABE/ASM 59000 GEAPS form, <u>not</u> the form below.

This is a contract between an advisor and a student/group of students for individual/small group study of a special problem in a selected area. ABE/ASM 59000 is for independent study equivalent to an academic course, and should not be used for research projects. This form must be submitted to the ABE graduate committee at least one month prior to the first day of classes of the semester in which the course is to appear. Graduate committee approval must be secured **prior to registration**. Approved copies will be distributed to the Academic Advisor and the 59000 Instructor.

Name:								Student I.D. No.														-																
A	ABE/ASM 59000 Instructor:									Academic Advisor:														_														
C	Course Substitute Sought (if any):																_				_	_																
S	Semester and year to be taken (e.g., Spring 2011):											_																										
S	itudent's A	nticipate	ed Classif	ficat	tio	n N	lex	ct S	e i	me	st	ter	:	_																								_
Subject ¹	Number	Credit Hours	Grade Opt	1 1		iter		-		•					-											•			-		ec	ific	 , d	es	crij	oti	ve	
	59000																																					
	Justificati [Why this	ion:																		•																		

¹ Choose ABE **OR** ASM.

Statement of Topic(s) To Be Studied:
Required Readings:
Learning Objectives: [Clarify what the student will learn in this independent study course. These should not be written as research
objectives. Learning objectives are often in the following form: Learn to
Be able to]
Procedure:
[Describe what the student will do to achieve the learning objectives. The procedure may include readings, assignments, meetings with the Advisor or other faculty, completion of online modules, reports, etc.]

Basis for Grading:		
Report Due Date:		
Student Time Commitment	Number of Hours	Days and Time of Conferences
Student-Instructor Conferences		
Independent Reading		
Analysis or Lab Work		
Final Report Preparation		
Other:		
Semester Total Hours (approx. 40-45 hrs/cr)		
Student Signature:	Date	:
Instructor Signature:	Date	:
Graduate Committee Approval:		Date

Appendix F: Timeline for MS Students

Before Semester	Communicate with your Major Professor
1	•Arrive to campus at least one week before semester starts- speak with your Major Professor to
	agree on date
	 Attend ABE Graduate Student Orientation and the Graduate School's Orientation during week
	before classes
	 Meet with Major Professor to plan first semester courses. Register for courses (often 9 credits),
	ABE 69400, and research credits (fall and spring semesters, register for 15 total credits in each
	semester)
	•Complete syllabus form (found in Appendix C) to register for research credits (often 6 credits)
Semester 1	•Satisfy admissions conditions (submit official transcripts, etc.) per the Graduate School
	• Develop Plan of Study, based on discussions with Major Professor and your interests. Include a
	draft Committee, which can be changed later if needed.
	•Take courses and research credits including ABE 69400.
	Before the end of the semester, register for the following semester including research credits
Semesters 2-3	Meet with your Committee to discuss courses, research, and progress each semester
(up until the	•Take courses and research credits - complete syllabus form for each semester of research credit
final semester)	registration
iniai serriester,	Take ABE 696 Seminar in Spring semester before completing an MS degree
	Before the end of the semester, register for the next semester including research credits
Before Final	•Register as CAND 991, 992, or 993 for the semester you plan to graduate (See Section 6.1 of the
Semester	ABE Graduate Student Manual for details)
Semester	Plan process for final exam with Advisor and Committee
	•Ensure that your Plan of Study is complete, courses in your Plan are correct, and all degree
	requirements are met, including ABE 696
Final Semester	•Schedule Defense date with Major Professor and Committee. The Defense date must be at least 2
rillai Selliestei	weeks before the end of the semester (see <u>Graduate School Calendar</u>) but usually prior to that to
	make time for updates.
	•Schedule a room for your Defense with the Main Office
At least 2 weeks	•File Form 8 "Request for Appointment of Examining Committee" with the Grad School through
before Defense	MyPurdue Graduate School link
before befefise	Send Thesis to all Committee members, following the <u>Graduate School's required format</u> Output Description: Output Description
	Prepare Defense Announcement using ABE template provided by Grad Admin, template can also
	be found on ABE website. Graduate Program Admin will announce date and time by email.
Day before	Prepare and print Rubric Forms for each Committee member from ABE Grad Admin or from
Defense	website (Also in Appendix D)
Day of Defense	
•	• Present and defend your thesis
When Thesis	•Complete electronic Thesis Acceptance Form (ETAF). Discuss with your advisor questions about
completed	Delay of Publication and Confidentiality.
	•Once approved, you will be able to log into to your Plan of Study portal and find the link to submit
	your thesis to HammerRR.
A ft	•Upload thesis for Graduate School review at least 24 hours before the Deposit Deadline.
After graduation	•Keep in touch with your Major Professor and the Grad Program Admin in ABE!

Timeline for Ph.D. Students

Before	Communicate with your Major Professor
Semester 1	Arrive to campus at least one week before semester starts - speak with your Major Professor to
	agree on date
	Attend ABE Graduate Student Orientation and the Graduate School's Orientation during week
	before classes
	Meet with Major Professor to plan first semester courses. Register for courses (often 9 credits),
	ABE 69400 (if not continuing from ABE-MS program), and research credits (fall and spring
	semesters, register for 15 total credits in each semester)
	Complete syllabus form (found in Appendix C) to register for research credits (often 6 credits)
Semester 1	Satisfy admissions conditions (submit official transcripts, etc.) per the Graduate School
	Develop Plan of Study, based on discussions with Major Professor and your interests Include a
	draft Committee, which can be changed later if needed
	Take courses and research credits
	Before the end of the semester, register for the next semester including research credits
Semesters 2	Take courses and research credits, including ABE 697 in a Fall semester
through the	Complete syllabus form for each semester of research credit registration
final year	Meet with your Committee to discuss research each semester
-	Before the end of the semester, register for the next semester including research
At least 1 year	Meet with Committee to plan Preliminary Examination procedures
before you	Complete Research Proposal and circulate to Committee
plan to	Conduct Written Prelim
graduate (Must	Schedule Oral Prelim and submit Form 8 at least 2 weeks prior. (See Checklist in Section 5.1 of
be completed	ABE Graduate Manual for completing the Oral Prelim)
no less than 1	Schedule a room for your Prelim with the Main Office
year prior to	File Form 8 "Request for Appointment of Examining Committee" with the Grad School through
graduation)	MyPurdue Graduate School link
Before Final	Register as CAND 991, 992, or 993 for the semester you plan to graduate (See Section 6.1 of ABE
Semester	Graduate Manual for details)
	Plan process for final exam with Major Professor and Committee
	• Ensure that your Plan of Study is complete, courses correct, and all degree requirements are met,
	including ABE 696 during your final Spring semester (if both MS and Ph.D. completed in ABE, this
	will be taken twice), and ABE 697
Final Semester	• Schedule Defense date with Major Professor and Committee. The Defense date must be at least 2
	weeks before the end of the semester (see <u>Graduate School Calendar</u>) but usually prior to that to
	make time for updates
	Schedule a room for your Defense with the Main Office
At least 2	File Form 8 "Request for Appointment of Examining Committee" with the Grad School through
weeks before	MyPurdue Graduate School link
Defense	Send Dissertation to all Committee members, following <u>Graduate School's required format</u>
	Prepare Defense Announcement using ABE template provided by Grad Admin, template also
	found on ABE website. Graduate Program Admin will announce date and time by email.
Day before	Prepare and print Rubric Forms for each Committee member from ABE Grad Admin or from ABE
Defense	website (Also in Appendix D)
Day of Defense	Present and defend your dissertation

When Dissertation completed	 Complete electronic Thesis Acceptance Form (ETAF). Discuss with your advisor questions about Delay of Publication and Confidentiality. Once it has been approved, you will be able to log into to your Plan of Study portal and find the link to submit your thesis to HammerRR. Upload dissertation for Graduate School review at least 24 hours before the Deposit Deadline.
After graduation	Keep in touch with your Major Professor and the Grad Program Admin in ABE!

Appendix G: Thesis Deposit Checklist THE DEPOSIT PROCESS

[1] COMPLETE ELECTRONIC THESIS ACCEPTANCE FORM [ETAF] AND REQUIRED SURVEY(S)

[2] SUBMIT YOUR ETD TO HAMMER RESEARCH REPOSITORY (HammerRR)

[3] PAY THE DEPOSIT FEE

Master's Thesis Fee \$90.00 Ph.D. Dissertation Fee \$125.00

For more detailed information and a full checklist, visit:

https://www.purdue.edu/gradschool/research/thesis/requirements.html

Appendix H: Important University Offices & Their Duties

University Parking Services

Purdue West Shopping Plaza 1404 W. State Street West Lafayette, IN 47906 (765) 494-9494

https://www.purdue.edu/parking/index.html

- Schedule a tour
- Get a parking permit
- Appeal a parking ticket

Card Services Office

Hovde Hall, room 5

(765) 496-0444

http://www.purdue.edu/business/card/ PurdueIDCardOffice@purdue.edu

- Get your student identification card
- Add money to your Boiler Express Account

ITaP (Information Technology at Purdue)

Customer Service Center Stewart Center, Room g-65

(765) 494-4000

http://www.itap.purdue.edu/help/

- Ask questions about your student email account
- Get computer support
- Buy discounted computers
- Obtain information about cell phone discounts

PUSH (Purdue University Student Health)

601 Stadium Mall Dr.

(765) 494-1700

www.purdue.edu/push

The Graduate School

Young Hall, room 170

(765) 494-2600

https://www.purdue.edu/gradschool/

- Admissions and turn in original documents
- Fellowships Office
- Student records
- Thesis and Dissertation Office
- Ombudsman

International Students and Scholars (ISS)

Schleman Hall, room 136

(765) 494-5770

http://www.iss.purdue.edu/

- Immigration services
- International student Orientation
- Visa questions, issues

Office of the Dean of Students

Schleman Hall, room 207

(765) 494-1747

http://www.purdue.edu/odos/

- Find a student organization to join
- Disability Resource Center

Office of the Registrar

Hovde Hall, room 45

(765) 494-6165

https://www.purdue.edu/registrar registrar@purdue.edu

- Course registration issues
- Holds
- Schedule changes
- Audit forms
- Transcripts
- Commencement and diploma questions

Bursar's Office

Hovde Hall, room 5

(765) 494-7570

http://www.purdue.edu/bursar/askbursar@purdue.edu

- Pay tuition or fees
- Aid disbursement
- Fee deferment

Division of Financial Aid

Schleman Hall, room 305

(765) 494-5050

https://www.purdue.edu/dfa/

- Financial assistance eligibility
- Grants and loans
- Part-time employment

Purdue Fire: (765) 494-6919 Purdue Police: (765) 494-8221

Appendix I: ABE Staff Directory & Duties

Graduate Program Administrator – Nikki Zimmerman, Lilly Hall, room 3-115 nzimmerm@purdue.edu

- Contact when you need help with when don't know where to start
- Contact when you have questions about anything- departmentally, university-wide, West Lafayette/Lafayette area, or pretty much anything else
- Support academic, emotional, whatever...
- Plans of Study
- Registration
- Filing prelim, defense, or graduation forms

ABE Business Office – Kathy Best and Pam Hancock, Lilly Hall, room 3-106

kjbest@purdue.edu phancock@purdue.edu

- Travel
- Purchasing
- Payroll
- Information regarding student insurance, time off for students on assistantships, etc.

Digital Systems Manager – Stan Harlow, Lilly Hall, room 3-108

harlow@purdue.edu

- Computer account
- Installing software
- Computer issues
- ProE and AutoCad

Assistant to the Department Head & Academic Coordinator – Dan Taylor, Lilly Hall, room 3-115A taylordc@purdue.edu

- Nikki's backup
- Recruiting
- Anything that needs departmental action start with Dan

Administrative Assistant to the Department Head – Becky Peer, Lilly Hall, room 2-110 peerb@purdue.edu

- Things related to Dr. Mosier
- Desk assignment
- Room scheduling
- Reserve department vehicles for driving off-campus (pre-registration required)

Main Office Receptionist – Vanessa Williams, Lilly Hall, room 2-110

vwilliam@purdue.edu

- Mailing & miscellaneous questions
- Concur travel questions
- Filling out travel forms

- Reserve departmental vehicles for driving off-campus (pre-registration required)
- Room scheduling

Lab Managers - David Wilson & Colleen Riley, Lilly Hall, room 2-118

wilsondd@purdue.edu

riley21@purdue.edu

- If you TA an undergraduate course with a lab, they can help
- Lab equipment and space questions

Alumni Relations and Communications – Carol Weaver, Lilly Hall, room 3-107 cmweaver@purdue.edu

- Poster printing
- Items for ABeNotes
- Website Information
- Social Media items

Shop Manager & ADM Building Deputy (until we move to ABE) – Scott Brand, Lilly Hall, room 2-118 brand@purdue.edu

- Keys
- Safety Training
- Fabrication of equipment for research
- Vehicles

ABE Undergraduate Program – Nate Engelberth, Laurie Snyder Lilly Hall, room 3-115, & Yvonne Hardebeck, room 3-107

nengelbe@purdue.edu

snyde158@purdue.edu

hardebey@purdue.edu

- Registration and other questions when Nikki is unavailable
- Scheduling questions when Nikki is unavailable