THE PURDUE POLYTECHNIC INSTITUTE

PH.D. GRADUATE STUDENT HANDBOOK

Assembled by
the Graduate Faculty
in the
Purdue Polytechnic Institute

PURDUE UNIVERSITY

West Lafayette, IN

August 2016
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# Purdue Polytechnic Institute Ph.D. Graduate Student Handbook

**NOTE:** This document supersedes the Graduate School Policies & Procedures Guide.

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FORWARD

This document is intended to clarify and emphasize the expectations that the Polytechnic has relative to the pursuit of graduate studies. If you have questions about how to interpret what is in this Handbook, please consult with your major professor, the Polytechnic Graduate Program Chair, or the Polytechnic Graduate Coordinator.

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SECTION 1.0. INTRODUCTION

Section 1.0 of this document provides an overview to general information graduate study in the Purdue Polytechnic Institute.

1.1. General Information

The Purdue Polytechnic Institute (Polytechnic) offers graduate instruction leading to the Master of Science (M.S.) and the Doctor of Philosophy (Ph.D.) degrees. The master’s degree enables students to concentrate on professional development studies in technology or technology education in any of the disciplinary foci and/or areas of concentration (see table 1) offered by the college. Note that some areas of concentration may include more than one area of disciplinary focus. Both thesis and non-thesis routes are offered through the master’s program. The Ph.D. program’s primary focus is to prepare faculty, researchers, specialists, managers and administrators for leadership in technological- and engineering-related careers in academia and industry.

Table 1.1. Disciplinary Foci and Areas of Concentration

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<td>• Industrial Technology—M.S.</td>
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<td>• Organizational Leadership—M.S.</td>
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<td>• Perceptual and Scientific Visualization—M.S.</td>
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<td>• Product Innovation and Development—M.S.</td>
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Specific information about the Purdue Polytechnic Institute graduate program may be obtained from the web page at [https://polytechnic.purdue.edu/graduate-studies](https://polytechnic.purdue.edu/graduate-studies). Written inquiries may be directed to Associate Dean for Graduate Studies, Purdue Polytechnic Institute, Rm. 150 Knoy Hall, Purdue University, 401 N. Grant, West Lafayette, IN 47907-2021, phone 765-494-6875.
This document mainly addresses the Doctor of Philosophy and general graduate procedures. A separate document, Polytechnic M.S. Handbook, is available from the Purdue Polytechnic Institute (Polytechnic) Graduate Studies Office to describe the college’s M.S. programs and procedures.

*NOTE:* Several departments in the Purdue Polytechnic Institute have their own M.S. degrees. As of summer 2012, Aviation Technology (AT), Building Construction Management (BCM), Computer and Information Technology (C&IT), Computer Graphics Technology (CGT) and Industrial Technology (IT) each have their own M.S. degrees. If you are interested in those specific MS degrees, check their departmental graduate studies web site for information or additional requirements.

### 1.2. Ph.D. Program Vision

The Purdue Polytechnic Institute is committed to its graduate program and to offering the technology profession’s leading Ph.D. and master’s programs. These graduate programs implement its scholarly responsibility to advance the disciplines of technology and to develop advanced level professionals who engage in technology, technological education, and related leadership. The faculty recognizes a genuine responsibility to prepare future scholar-practitioners for the technological enterprise in both public (education and government) and private sector environments. The Ph.D. program represents the college’s most advanced manifestation of this commitment.

### 1.3. Ph.D. Program Purpose

Through the doctoral program faculty seek to provide degree candidates with the knowledge and skills necessary to advance the discipline and its practice. The primary purposes of the program are to prepare scholarly faculty for technology education programs throughout the nation and world, and advanced leader/researchers for public and private sector environments employing such levels of personnel. In doing so, the program also develops the concomitant skills involved in technology-relevant knowledge development, synthesis, and assessment. Candidates may also prepare for leadership roles in fields such as technology transfer, technology human resource development, technology teaching, or supervision of technology in private and public sector agencies.

Graduates of the program are expected to demonstrate an appropriate level of mastery of the discipline of technology, both in general and with respect to the technological focus built into their program. Given this, the program is structured to enable the development of the technological focus as well as a broad understanding of the discipline.

Successful Ph.D. candidates will demonstrate advanced ability to:

1. Envision, plan and conduct research and development activities;
2. Identify, comprehend, analyze, evaluate and synthesize research;
3. Evaluate technologies and technology-related programs;
4. Assess individual performance with, and understanding of, technology;
5. Communicate effectively and employ constructive professional and interpersonal skills; and
6. Function in one or more of the technology disciplines.

1.4. Ph.D. Program Overview

The Purdue Polytechnic Institute’s Ph.D. program is based on practices at Purdue University and other leading institutions. These include a requirement for a minimum of 90 credit hours above the bachelor degree, maintenance of a B or better grade point average, and satisfactory progress each semester. At least one third of the total credit hours used to satisfy the degree requirements must be earned in continuous residence at Purdue. Historically the college’s Ph.D. was designed for individuals who entered with an obtained M.S. degree (“master’s plus Ph.D.”). However, the college also offers a Ph.D. for students entering directly from a bachelor’s degree (“direct to Ph.D.”).

Ph.D. advisors, working interactively with the student, will consider all prior graduate coursework accepted for transfer into the program while developing the Plan of Study (POS). In addition to a technology focus, each plan of study will include a solid discovery foundation sequence of research courses and a cognate, which is designed to add depth and a second discipline’s perspective to the student’s research or professional goal-related field. A dissertation will serve as both a culminating synthesis experience and a visible demonstration of performance.
SECTION 2.0. ADMISSION POLICIES AND PROCEDURES

Section 2.0 of this document provides an overview to the requirements, types of admission, time limits and opportunities for financial assistance relative to graduate study in the Purdue Polytechnic Institute.

2.1. Background on Ph.D. Admission

Ph.D. applicants are admitted through an evaluation process of the graduate faculty in the Purdue Polytechnic Institute. A controlled enrollment approach ensures that only a manageable number of highly talented degree aspirants with genuine academic leadership potential are admitted. It is the Polytechnic’s goal that every admitted Ph.D. graduate student has the opportunity to be supported by one of the Polytechnic’s research and development projects or teaching assignments.

Persons seeking admission to the program should have relevant prior coursework and experience in the discipline to ensure a significant potential for success in the program. Additionally, a requirement for acceptance is that a match exists between the applicant’s goals and interests and that of the program’s intent and the faculty research. When faculty, in their judgment, identify deficiencies in either the applicant’s formal education or experiential background, they have a responsibility to require appropriate prerequisite experiences in addition to the standard program requirements.

2.2. Admission Criteria

The admissions process selects highly qualified applicants into the Polytechnic’s Ph.D. program by considering each of the following criteria in judging the overall strength of the applicant. Typically, no criterion is used as a sole determinant for admission.

- For students holding a qualified M.S. degree, a graduate GPA of 3.5 or better and an undergraduate GPA of 3.25 or better (or equivalent class rank) from accredited institutions and in programs with specific relevance to technology will be required for unconditional admission. For students entering from a qualified bachelor’s degree, an undergraduate GPA of 3.5 or better (or equivalent class rank) from accredited institutions and in programs with specific relevance to technology will be required for unconditional admission.
- A four-year undergraduate degree or an undergraduate degree that conforms to the Bologna Accords.
- GRE or GMAT scores at or above the 50th percentile (for each subscale) are required for unconditional admission for applicants holding a qualified M.S. degree. For direct admission from a B.S. degree, GRE or GMAT scores at or above the 60th percentile (for each subscale) are required for unconditional admission for applicants. Note, pursuant to ETS’ recommended practice, the program does not require a specific minimum score.
- For direct admission from a B.S. degree, applicants should show substantial evidence of undergraduate research experience.
- At least two years of relevant work experience is preferred as is breadth in educational experience.
• Review and recommendation for acceptance by the relevant department’s graduate faculty at least one of which is willing to serve as major professor.
• A statement of purpose judged to be a good fit for the college’s Ph.D. program mission.
• A positive admission interview report evidencing oral English proficiency.
• Personal and professional characteristics commensurate with success in the profession.
• International applicants whose first language is not English and who have not graduated from a University or College using English as the primary language of instruction, must present a TOEFL according to the requirements of the university.
• Demonstration of a high level of competence in written communication as evidenced by a writing sample.

2.3. Application Requirements

All applicants are required to submit the following items to create an application package suitable for effective review of the applicant’s potential for success in the Purdue Polytechnic Institute’s Ph.D. program:

• Purdue University Graduate School online application form and applicable fees.
• A detailed reflective statement of purpose highlighting career goals, capabilities to be developed, and a self assessment highlighting both strengths and weaknesses.
• A detailed resume or curriculum vitae.
• Transcripts of all universities or post-secondary institutions attended.
• Official GRE (preferred) or GMAT scores.
• A writing sample that documents a high level of competence in written communication such as a thesis or other significant, personally written product.
• At least three letters of recommendation from faculty with an earned doctoral degree or others deemed qualified to judge potential for success in research and Ph.D. programs.
• Official TOEFL score (if required).
• Documentation of financial support (required only for international applicants).

2.4. Admission Procedures

The procedures for admission to the Polytechnic Ph.D. program include the following steps:

• Applicants complete Purdue University’s on-line electronic application and submit the Graduate School’s application fee.
• Applicants submit all other application materials to the Polytechnic Graduate Studies Office.
• The Polytechnic Graduate Studies Office assembles complete application package for internal review.
• The completed application package is routed to the relevant department in the Purdue Polytechnic Institute for review.
• At least one of the reviewers interviews the candidate, if possible. Although in-person interviews are desirable from both the Polytechnic and applicant perspective, alternative procedures (such as telephone interviews) may be employed.
• Faculty review package and report assessment to the Polytechnic Graduate Studies Office.

**NOTE:** It is the responsibility of every international student applicant to supply all documentation needed by the United States Immigration and Naturalization Service and Purdue University to establish eligibility for entrance into the USA as a student. This necessarily includes documentation of sufficient financial resources to sustain the anticipated period of study. **International graduate students must not begin to travel to Purdue University until formally notified of their acceptance by the Graduate School.**

### 2.4.1. Admissions Recommendations

Departmental admission recommendations to the Polytechnic Graduate Studies Office may be one of the following:

- Admit without conditions,
- Admit with conditions (and these conditions must be specified), or
- Deny.

Departmental admission recommendations are forwarded to the Purdue Polytechnic Institute (Polytechnic) Associate Dean for Graduate Studies for review and recommendation to the Purdue University Graduate School.

### 2.4.2. Admission Deadlines

Candidates for admission must have submitted all necessary application materials by the following deadlines:

- **February 15th** for summer admission (for international students applying from outside the US).
- **April 1st** for summer admission (for domestic students and international students applying from inside the US).
- **April 1st** for fall admission (all students).
- **September 1st** for spring admission (for international students applying from outside the US).
- **October 1st** for spring admission (all domestic students and international students applying from inside the US).

### 2.5. Conditional Admission

For those students admitted who do not meet unconditional admission criteria to the Ph.D. program, certain other performance elements may be considered. For example, substantial career accomplishment as evidenced by the resume or high performance on
the Graduate Record Examination may indicate that student potential for success is not adequately reflected in their prior academic record.

In particular, faculty reviewers of graduate applicants note the level of communication (oral and written) proficiency documented by the applicant and in cases where performance is below expectations, e.g., as demonstrated by a low GRE Verbal score, faculty may consider establishing English development experiences in addition to the program’s normal requirements.

Conditional admission requires that certain minimum performance standards be established, such as "must achieve at least a 3.00/4.00 graduate index at the completion of the first 12 credits following admission to the degree program." In addition, admission committees may require certain prerequisite coursework to satisfy a deficiency in the student’s background.

Academic conditions of admission for all conditionally admitted students will be monitored by the Purdue Polytechnic Institute’s Graduate Studies Office and/or the Graduate School, depending on who has imposed the condition. Each semester the Graduate School will remove the eligibility to register for future sessions for all students who failed to satisfy their conditions of admission in the previous session. Thus, there is a grace period of one semester.

Departments are to justify and indicate any conditions under which these students should have their eligibility to register restored and be allowed to continue to study for the degree. This is requested by a memo from the major professor and routed through the college’s Associate Dean for Graduate Studies, detailing reasons why the student should be permitted to continue. Upon Graduate School approval, the eligibility to register will be restored.

2.6. Time Limitation

Students pursuing the Ph.D. degree have up to eight years to complete their program. If the student exceeds these limits, the student may be dismissed for lack of satisfactory progress or, when circumstances are justified, may be required to retake some courses or take new courses to replace out-of-date courses. Typically, master’s plus students (those entering the program with a qualified master’s degree) complete their coursework in three (3) years, and complete their preliminary examination at the end of that period. The research proposal and the final dissertation are typically completed in the subsequent two (2) years.

Direct to Ph.D. students (those entering with a qualified bachelor’s degree) typically complete their coursework in four (4) years. After the first year, but before the third, students must pass qualifying examinations. In their final year, students complete the preliminary examination. The research proposal and the final dissertation are typically completed in the subsequent two (2) years.

NOTE: Continuous registration is required once the student begins coursework. Students deemed not to be making satisfactory progress will
be afforded one opportunity to justify progress to their program committee. To continue in the program, such students require the consent of their Ph.D. committee and the Associate Dean for Graduate Studies. Otherwise they will be dropped from the program.

2.7. **Financial Assistance**

The following two sections describe the availability of financial assistant and information about assistantship appointments and fellowships.

2.7.1. **Availability**

A limited number of graduate teaching and research assistantships from departments within the Purdue Polytechnic Institute are available. All assistantship applications are to be directed to the department head of the appropriate department. Additional appointments are available from other elements of the university, such as the library system and student housing. Details on assistantships and fellowships outside the Purdue Polytechnic Institute are available at Purdue University’s Graduate School website at [http://www.gradschool.purdue.edu/funding/](http://www.gradschool.purdue.edu/funding/). Additional information may be available from the Purdue Polytechnic Institute department heads.

2.7.2. **Assistantship Appointments**

In order to provide opportunity for the student to progress satisfactorily toward the degree objective, graduate appointments will ordinarily be for no more than one-half time and for a maximum of three (3) academic years for Ph.D. students. Renewal of graduate appointments for additional time will be based on satisfactory performance in the position and academic performance toward plan of study requirements, as well as availability of positions.

Teaching assistantships (TA) and Research Assistantships (RA) include a tuition waiver during the semester the student has the assistantship. Normally teaching assistantships are not available in the summer. However, if a student has a teaching assistantship in the spring and the following fall semester, a tuition waiver for the summer is still available to the student.

**NOTE:** Assistantships DO NOT cover the cost of student fees assessed each semester.

2.7.3. **Fellowships**

Purdue University’s Graduate School administers many university wide and national fellowship and scholarship programs. Students are advised to access [http://www.gradschool.purdue.edu/funding/](http://www.gradschool.purdue.edu/funding/) for the latest information on such opportunities.
SECTION 3.0 POLICY ON MONITORING, PROBATION, AND DISMISSAL

Section 3.0 provides an overview to the monitoring, probation, dismissal and appeal policies in the Purdue Polytechnic Institute.

3.1. Minimum Cumulative GPA Requirements (in graduate courses)

The Purdue Polytechnic Institute has specific a GPA requirement for graduation as shown in Table 3.1. This is the same as the university requirement. Also shown are the GPA requirements for probation and dismissal relative to the college’s programs. Sections 3.2 thru 3.5 outline the policies and procedures relative to probation and dismissal.

Table 3.1. Graduation, Probation and Dismissal GPA Thresholds

<table>
<thead>
<tr>
<th>GPA Threshold</th>
<th>Graduation</th>
<th>3.00/4.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Probation</td>
<td>2.75/4.00</td>
<td></td>
</tr>
<tr>
<td>Dismissal</td>
<td>2.50/4.00</td>
<td></td>
</tr>
</tbody>
</table>

NOTE: University requirements state that no grade of “D” or “F” is allowed in a course on the plan of study. Any plan of study course in which a grade of “D” or “F” is received must be repeated and completed successfully; it cannot be dropped from the plan of study.

3.2. Monitoring

Each semester graduate student performance is evaluated to ensure that the student is performing well and will graduate with a 3.00/4.00. Procedurally this is done in the following way:

- Graduate student grades and academic progress will be monitored at the departmental level.
- Monitoring will begin after six (6) credit hours have been attempted and every semester thereafter in which the student is enrolled.
- Students are expected to maintain a cumulative grade point average of at least 3.00/4.00 with no grade less than “B” and earn grades of “Satisfactory” in dissertation research credit hours.

NOTE: The grade “B-” (B minus) is below the expected grade a graduate student should earn in his or her courses.

- If a student has a semester GPA less than 2.75/4.00 or a cumulative GPA less than 3.00/4.00, a letter will be drafted by the department head to the student, with a copy to the major professor, to the Graduate School, and to the student’s file, indicating the last semester was determined unsatisfactory and that they are being placed on probation.
NOTE: Graduate students that receive an incomplete in a course will have one semester and 12 weeks into the following semester to complete the course. If that is not done, the Registrar automatically makes the grade a failure.

3.3. Probation
Probation occurs when a student performs below the Polytechnic standards in a semester. Procedurally probation means:

- If a student’s semester GPA falls below 2.75 or if a student’s cumulative GPA falls below 3.00/4.00, the student will be placed on academic probation.
- The Polytechnic Associate Dean for Graduate Studies will generate a letter informing the student, major professor, and department head of the probationary status. A copy will also be forwarded to the Graduate School and placed in the student’s permanent record.
- The student will have two semesters to raise their cumulative GPA to the required level and return to good standing. If they do not, they will not be able to register for classes the subsequent semester and will be dismissed from the program.
- Eligibility for an assistantship while on probation will be left to the Department Head’s discretion.

3.4. Dismissal
- If a student’s semester GPA is below a 2.50 or if a student’s cumulative GPA falls below 2.75, the student will be immediately dismissed from the program.
- A student will be dismissed from the program if they remain on probation for two consecutive semesters without improvement. This policy is independent of any assistantship the student may hold.

3.5. Appeal
- A student may appeal their probationary or dismissal status by contacting the Associate Dean for Graduate Studies in writing within thirty (30) days of the date of the requisite notification letter. The appeal should include the student’s specific reasons for exception to the aforementioned policies.
- The appeal will be reviewed by a subcommittee of three (3) members of the Purdue Polytechnic Institute Graduate Education Committee (excluding the Graduate Education Committee representative from the student’s home department).
- If the review committee recommends reinstating the student, the student’s graduate advisor/chair must approve. If the graduate advisor does not approve, the Associate Dean for Graduate Studies will render a final decision.
- In cases where a student is reinstated without approval of the graduate advisor, a new advisor may need to be assigned.
- The decision of the appeal subcommittee and/or Associate Dean for Graduate Studies will be considered final and will be delivered within thirty (30) days of the student’s request for exception to probation.
SECTION 4.0. DOCTORAL DEGREE PROGRAM STRUCTURE

The Purdue Polytechnic Institute offers two options for the pursuit of a PhD: a direct to PhD (from a qualifying B.S. degree) and a “master’s plus” PhD (where coursework from an existing M.S. degree counts towards the requirements for the PhD. Both options require 75 credit hours of coursework and 15 research credit hours that result in the completion of a doctoral dissertation.

4.1 Process for Direct Admission Ph.D. Students

1. Coursework (24 credit hours – assume end of first year)
   a. Appointment of major professor
   b. Selection of a committee (two people in addition to a chair)
   c. Filing of the Electronic Plan of Study (EPOS)
      i. Draft of the Plan of Study must be submitted by the end of the first semester of study.
      ii. A final Plan of Study must be submitted by the end of the second semester of study.
   d. Successful completion of 24 credit hours
      i. Must include TECH 60100, IT 50700, TECH 64600, MET 52700, & major courses (up to 24 credit hours)

2. Qualifying Examination
   a. If failure, student completes MS requirements and leaves with an MS.

3. Coursework Completion (51 credit hours)

4. Preliminary Oral Examination

5. Dissertation Research Project (15 credit hours)
   a. Dissertation research proposal
   b. Proposal defense meeting
   c. Obtain appropriate certifications for research (CITI, HIPAA, FERPA, etc.).
   d. Execution of research

6. Final oral defense of dissertation research

4.2 Process for M.S. Degree Holding Students

1. Coursework (45 credit hours plus 30 from a qualified M.S. degree)
   a. Appointment of major professor
   b. Selection of a committee (two people in addition to a chair)
   c. Filing of the Electronic Plan of Study (EPOS)
      i. Draft of the Plan of Study must be submitted by the end of the first semester of study.
      ii. A final Plan of Study must be submitted by the end of the second semester of study.
   d. Successful completion of all courses

2. Preliminary Oral Examination
3. Dissertation Research Project (15 credit hours)
   a. Dissertation research proposal
   b. Proposal defense meeting
   c. Obtain appropriate certifications for research (CITI, HIPAA, FERPA, etc.).
   d. Execution of research
4. Final oral defense of dissertation research

4.3. Program Credit Hour Requirements

The Purdue Polytechnic Institute Ph.D. requires a minimum of 90 graduate semester credit hours (beyond the bachelor degree but counting up to a maximum of 30 for an appropriate master’s degree). Table 4.1 provides a detailed listing of credit hour requirements.

Table 4.1. Program Credit Hour Requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Direct to PhD</th>
<th>Master’s Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology (the major/field of specialization)</td>
<td>30 cr min</td>
<td>21 cr min</td>
</tr>
<tr>
<td>Discovery Foundations (research methodology, statistics and experimental design)</td>
<td>18 cr min</td>
<td>12 cr min</td>
</tr>
<tr>
<td>Cognate (from any appropriate Purdue college or school other than Technology)</td>
<td>27 cr min</td>
<td>12 cr min</td>
</tr>
<tr>
<td>Dissertation Research</td>
<td>15-30 cr</td>
<td>15-30 cr</td>
</tr>
<tr>
<td>Total Hours beyond prior degree</td>
<td>90 cr min</td>
<td>60 cr min</td>
</tr>
<tr>
<td>master’s degree</td>
<td>---</td>
<td>30 cr max</td>
</tr>
<tr>
<td>Total Graduate Study</td>
<td>90 cr min</td>
<td>90 cr mini</td>
</tr>
</tbody>
</table>

**NOTE:** Appendix A provides a template that can be used for course planning for the Ph.D.

4.3.1 Technology Major Courses

This central component of the Ph.D. program is intended to be used to flexibly add depth and breadth as appropriate to the student’s professional goals and simultaneously be consistent with the program’s mission. The Purdue Polytechnic Institute’s Ph.D. program Technology Major seeks to develop 21st century cognitive skills by means of a ten (10) hour set of core courses and an additional set of courses creating a technology focus. In addition to the ten (10) hour core, students may take any appropriate number of other Purdue Polytechnic Institute graduate courses to create a focus.

The core courses are:

- IT 50700 Measurement and Evaluation in Industry and Technology
- MET 52700 Technology from a Global Perspective
- TECH 60100 Research Seminar in Technology
- TECH 64600 Analysis of Research in Industry and Technology
IT 50700 can be substituted with STAT 51100 or PSY 60100

Technology Major component courses are typically 500- or 600-level courses. They may include undergraduate courses (300- or 400-level) only when followed by appropriate 500- and 600-level courses, and are subject to the approval of the student's advisory committee and the Associate Dean for Academic Affairs & Diversity. Undergraduate courses used must be in excess of baccalaureate degree requirements and not already included in M.S. courses being counted toward the Ph.D. Graduate School policy stipulates that 100- and 200-level courses may not appear on a plan of study and that no more than six (6) semester hours of 300- and 400-level courses may be applied to graduate work and a grade of “B” or better is required.

NOTE: If students hold an M.S. degree, courses included on the M.S. degree should not be retaken for the Ph.D. degree. For example, if the student had TECH 646 in their M.S. program of student, it should not be taken again for the Ph.D.

A maximum of nine (9) hours of TECH 59000 or 69000– Independent Study may be included on the plan of study. A minimum number of credit hours of TECH or Purdue Polytechnic Institute department prefixed courses (other than TECH 699) must be a part of the program as shown in table 4.1. Section 6.0 provides information about the requirements for independent study.

4.3.2. Cognate Courses

The Cognate consists of any coherent set of courses from outside the Purdue Polytechnic Institute that creates competence in a field rationally related to the candidate’s career objective. A doctoral level graduate faculty member representing the cognate must serve on the candidate’s Ph.D. program committee. The intent of the cognate component in the Purdue Polytechnic Institute’s Ph.D. program is to enable candidates to establish a support area of competence relevant to the candidate’s career objective. Typically a cognate consists of 9 to 12 semester credit hours of coherent courses. Thus a student may have multiple cognate areas. The validity of the cognate is attested to by a doctoral level graduate faculty member who serves on the candidate’s Ph.D. program committee. Some possibilities for cognate areas include, but are not limited to, the following:

- Science, Technology and Society
- Business/Management
- Engineering
- Human Resource Development
- Safety/Human Factors
- Quality
- Instructional Technology
- Curriculum & Instruction
- Higher Education Administration
- Psychology
- Computer Science
- A language. Meeting (by testing or coursework) a foreign language department’s requirements for reading proficiency in a language other than the student’s native language or English will be considered the equivalent of a cognate. Students must meet overall program credit hour requirements.
- International Studies
- Art & Design
4.3.3. Discovery Foundations Courses

All Ph.D. graduates from the Purdue Polytechnic Institute’s Ph.D. program are expected to not only be able to critically evaluate and utilize research, but also be able to design, conduct, and report appropriate research in the technology disciplines. To this end, students must demonstrate proficiency in research and experiment design, multivariate statistics, and various research methods. The minimum core will be supplemented by additional study relevant to the specific requirements of the candidate’s proposed dissertation research project.

The intent of the Discovery Foundations component in the Purdue Polytechnic Institute’s Ph.D. program is to develop mastery of a solid set of research, knowledge development and discovery skills sufficient to enable the candidate’s dissertation research project and the critical evaluation of other’s research. Both qualitative and quantitative skills are to be developed by coursework in this component as are statistical methodologies including at least multivariate techniques. Therefore, students will take as a minimum:

- A course in multivariate statistics
- A course in quantitative experimental design
- A course in qualitative research methods

**NOTE:** Examples of multivariate statistics courses include STAT 502, STAT 512 as well as an advanced statistics course being offered in IT. Various quantitative and qualitative courses exist in the departments of the Polytechnic as well as other university departments.

4.3.4. Transfer of Credits

A maximum of 30 semester credit hours will be permitted for credit from completion of a committee approved master’s degree (research credits cannot be transferred; only course credits can be transferred). Of the 90 graduate semester credits required for a Ph.D., at least 33 credits, plus all dissertation research credits, must be earned under the supervision of the student’s committee at Purdue University.

4.3.5. Qualifying Examination

To demonstrate to the faculty that a student is qualified to continue in the Ph.D. program in the Purdue Polytechnic Institute, the student is required to take and pass written qualifying examinations. These qualifying examinations are offered once each semester (except summer) at approximately mid semester. The student must take the qualifying examination after the second semester of enrollment in the Ph.D. program. Exceptions to this may be granted at the request of the advisor/chair and approval of the Associate Dean for Academic Affairs. However qualifying exams should occur no later than the fourth semester of study. See section 5.3 for more information.
4.3.6. Preliminary Oral Examination

Following the completion of the coursework for the Ph.D., students are expected to pass a preliminary oral examination. The examination includes both a written and oral component. The exam covers all the coursework the student has undertaken as a Ph.D. student. The preliminary oral examination requires the physical presence of all three graduate committee members. See section 5.3 for more information.

4.3.7. Dissertation

The Ph.D. dissertation must demonstrate the candidate’s ability to conduct substantial and significant research in the technology disciplines and/or related disciplines that intersect with them. Candidates are expected to demonstrate mastery of the key literature in the field and use this to situate the specific project they propose.

Students enroll in TECH 69900 Ph.D. Thesis Research for a minimum of 15 semester credit hours to receive credit for their dissertation research. This enrollment is to be distributed commensurately with the amount of work performed in the semester. Continuous enrollment in TECH 699 is required until the degree is earned.

**NOTE:** There are times when the term “thesis” is associated with doctoral classes or work (such as the title of the course TECH 69900). While the term thesis is typically associated with master’s degrees and the term dissertation is typically associated with doctoral degrees, the terms are sometimes used synonymously.

4.4. Residency Requirements

The total number of hours of academic credit used to satisfy residency requirements consists of all course credit hours that appear on the plan of study, other graduate course credit hours with grades of “C” or better that appear on the Purdue University transcript, and research credit hours with grades of “S” that appear on the Purdue University transcript.

Doctoral degree students must have at least one-third of the total credit hours used to satisfy degree requirements earned while registered for doctoral study in continuous residence on the Purdue University campus where the degree is to be granted. At least 90 credit hours are required; however, some program areas may require more than 90 credit hours. A master’s degree from any accredited university is considered to contribute 30 credit hours toward satisfying this residency requirement.

In fulfilling these requirements, a maximum of 18 credit hours will be allowed from any one semester (maximum hours proportional to length of summer session equals nine (9) credit hours).

**NOTE:** If a student completes all the academic requirements but has insufficient residence credits, a letter of explanation justifying the deficiency should be forwarded to the Dean of the Graduate School. If justification is sufficient, the Dean of the Graduate School may waive part of the residency requirement.
4.5. Appointment of a Major Professor/Advisor

Each graduate degree plan of study is unique to the individual student and his/her background, experience, and degree objectives. To guide in the development of a degree plan, a major professor (advisor) will be appointed to chair the student's advisory committee and will assist the student through the program. A student may request a major professor in their application materials; but this request may not always be possible, based on advisement load, research commitments, and other factors. The major professor will become the most important contact person, and the major professor/student relationship must be a mutually acceptable one. The major professor of the doctoral committee must hold an earned doctorate. The major professor serves concurrently as advocate, mentor, and supervisor of the graduate student.

4.6. Graduate Advisory Committee

The student and the major professor are responsible for the selection of an advisory committee. The duties of that committee are to assist the student in the preparation of the plan of study and to offer advice during the period of graduate work. It is important that the initial advisor, whether or not she or he continues as the permanent advisor, initiate activities to assist students in becoming acquainted with potential faculty to serve on the advisory committee.

NOTE: The student’s doctoral advisory committee begins with three members of the graduate faculty, at minimum. After the preliminary oral examination, a fourth member must be added. The fourth member remains through the dissertation proposal creation, approval and defense process.

The major professor and one other member of the committee should be from the Purdue Polytechnic Institute graduate faculty whereas the third may represent a cognate area, but must also be a member of the Purdue University graduate faculty. Members of the committee need not be faculty with whom the student has taken coursework. A co-advisor may be designated when advantageous to the student and where it can build faculty experience. Students and major professors should note that if a student’s plan of study and/or research project would be significantly improved by the expertise of a faculty member or a person outside of the university, they may request consideration for special certification for such service. Such requests require a rationale and description of the expertise and are routed to the Graduate School via the Polytechnic Graduate Studies Office. The request for appointment of the advisory committee is made on the same form (and at the same time as) the request for approval of the student's plan of study (refer to the section 5 on the Electronic Plan of Study Requirements).

The initial advisory committee should be selected preferably **during the first enrollment semester, but not later than the end of the second enrollment semester.** The committee will then be in place to help the student develop the plan of study and review/approve the student's dissertation proposal, which must be approved before actual work on the project may begin. The student should discuss the plan of study with their preferred potential advisory committee members and secure their permission to list them on the plan of study **before** the plan is submitted for signature. The fourth member of the
doctoral committee is added after the preliminary oral examination, but before the dissertation research proposal.

4.7. **Course Load Recommendations and Requirements**

The maximum course load for graduate students is 18 credits (and occasionally 19 credit hours with special permission). Typically 18 credit hours translate into six (6) courses. Eight (8) credit hours is considered the full-time certification standard for graduate students by the Graduate School.

**NOTE:** To maintain full time status, international graduate students must take eight (8) credit hours per semester.

Most students inquire as to how many classes they should take when they have an assistantship. Table 4.2 provides some recommendations as to how many credit hours are typical when also working as a teaching or research assistant.

Table 4.2. *Recommended Course Loading for Assistants*

<table>
<thead>
<tr>
<th>Assistantship Load</th>
<th>Recommended Course Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>¼-time assistant</td>
<td>12 to 15 cr. hrs.</td>
</tr>
<tr>
<td>½-time assistant*</td>
<td>9 to 12 cr. hrs.</td>
</tr>
<tr>
<td>¾-time assistant</td>
<td>6 to 9 cr. hrs.</td>
</tr>
</tbody>
</table>

*Assumes ½-time is equivalent 20 working hours.

**NOTE:** A candidate for the doctoral degree is expected to complete all requirements for the degree within eight years from the completion of the oldest course on the plan of study.

4.7.1. **Reduced Course Loads for International Students**

To maintain visa status, international students are expected maintain a fulltime load. Purdue’s Office of International Students and Scholars (ISS) provides information about this requirement and offers a means for international students to request permission to take a reduced courses load. Appendix B provides a visual example of the form. Graduate students desiring a reduced course load should work with ISS to request this before their course load is reduced below that required by U.S. Immigration rules. See the ISS web site for more information: [http://www.iss.purdue.edu/](http://www.iss.purdue.edu/).

4.8. **Registering for Courses as a Graduate Student**

Purdue University provides online scheduling of courses for all of its students via the *myPurdue* system. The software used for this system is called *Banner*. Typically the student works with his or her advisor to determine the appropriate courses to take for a given semester. Then the student works with the graduate coordinator in the Purdue Polytechnic Institute to sign up for courses. Typically students can self-register. A registration PIN number is required to perform self-registration. You will be informed of your PIN number at the time of admission from the Polytechnic Graduate Studies Office.
However, at times students may need an ‘override’ to be able to register for certain courses. More information about registering for classes can be found at the Registrar’s web site: http://www.purdue.edu/registrar/.

It is the graduate student’s responsibility to keep track of specific dates relative to course scheduling. These include deadlines for registration, deadlines for dropping courses and the like. The Graduate School announces these dates on its web site and typically the deadlines are emailed to students each semester at appropriate times.

### 4.9. Tuition Versus Fee-Based Courses

Any student who pursues a tuition-based residential degree that requests a fee-based distance learning course as part of their Plan of Study, may enroll in the fee-based distance learning course given the following:

1. There is sufficient availability of open seats such that no fee-based student would be prohibited from enrolling in the course.
2. The tuition-based residential student pays the required fee for the distance learning course. The fee will be in addition to the university charged tuition rates.
3. The student enrolls in the fee-based distance learning course through the Purdue Polytechnic Institute ProSTAR enrollment process for undergraduate/graduate programs.

### 4.10 Dropping and Adding Courses

To drop or add a course, the student uses the myPurdue system. All variable credit courses will require the Polytechnic Graduate Studies Office to provide an override for the student to enroll in the course. The Polytechnic Graduate Studies Office must also set the desired credit hours (when a student enrolls, the default is one (1) credit hour). Subsequently, be sure to confirm that a dropped or added course has been officially recorded by checking myPurdue.

Courses dropped during the first two weeks of classes will not appear on your permanent record. Courses dropped during weeks three and four will be recorded as a “W” grade on your permanent record (withdraw). Courses dropped during weeks five through nine require the signature of both the instructor and the Polytechnic Graduate Coordinator. In such a case, the instructor must assign a grade of “W,” “WF,” or “WN.” The end of this period is the final deadline for withdrawing from a class.

**NOTE:** A “W” simply records the fact that the student withdrew after the second week of the semester. A “WF” records that the student was failing a graded course. “WF” grades are not included in computing the GPA. A “WN” records failing status in a course being taken Pass/No Pass. “W,” “WF,” and “WN” grades are recorded on your permanent record.

Courses added during weeks two through four require the approval and signature of the instructor and personnel in the Polytechnic Graduate Studies Office. Courses may be added during weeks five through nine, but only under extraordinary circumstances.
Courses added after the fourth week requires the approval and signature of the instructor, the Polytechnic Graduate Coordinator, and the head of the department where the course is offered (for non-Polytechnic courses).

**NOTE:** Graduate students that receive an incomplete in a course will have one semester and 12 weeks into the following semester to complete the course. If that is not done, the Registrar automatically makes the grade a failure.

### 4.11. Research in Absentia

Under circumstances often beyond their control, graduate students sometimes find it necessary to attempt completing their research in absentia. Experience has indicated that it is very difficult to complete research in absentia status, and it is seldom a recommended course of action. At the very least, research in absentia should only be considered if a student appears to be within one year of completing his or her research.

Permission for research in absentia status must be obtained from the Graduate School. The request for research in absentia is initiated by the student’s major professor on GS Form 12: Request for Research in Absentia (see Appendix C). The Graduate School must receive the request form at least one month prior to the beginning of the initial absentia session. Research in absentia is not permitted until after a student has completed all course work, passed the Preliminary Exam, and made substantial progress on the Ph.D. thesis research (TECH 69900). In addition to the Graduate School regulations governing research in absentia, as outlined in the Graduate School Bulletin, the Polytechnic requires that the official request form must be accompanied by a statement, approved by all members of the Doctoral Advisory Committee, clearly identifying the reason(s) for the request. All requests for research in absentia must also be approved by the Associate Dean of Academic Affairs in the Purdue Polytechnic Institute.

When approved, permission to register for research in absentia will be valid for an initial period of one calendar year. A request for an extension beyond the approved year of research in absentia initiates a Formal Review by the Associate Dean of Academic Affairs in the Purdue Polytechnic Institute. As part of the Formal Review, the student must submit a written progress report and a complete explanation of why the deadline for completion within one year was not met. In addition, the Doctoral Advisory Committee must be convened to conduct a Formal Review Examination. The committee will recommend a) a one year extension of the research in absentia status, b) termination of the research in absentia status (requiring the student to return to Purdue), or c) termination of the student’s doctoral program. Students granted an extension of the one year limit must submit a written progress report to their Doctoral Advisory Committee and to the Polytechnic Graduate Studies Office prior to all subsequent registrations for research in absentia. Additional requests for an extension of research in absentia status are subject to the same review procedures. A student must register for research in absentia every semester (summer sessions are not included) from the initial approval until all requirements are completed.
It should be noted that if your research merely requires the use of facilities that are available elsewhere, but not available at Purdue, you should not apply for research in absentia. Rather, retain your Purdue University appointment, register as a regular student, and file a request for “Change of Duty Station.” This requires form HRS 33F (see Appendix D).

4.12. Re-entry into the Ph.D. Program

If a Ph.D. student fails to register at the West Lafayette campus for three or more consecutive academic sessions, he or she must submit a new application for re-entry into the doctoral program and obtain approval from the Polytechnic Graduate Studies Office and the Graduate School before any subsequent registration will be permitted. Registration for Research in Absentia, it should be noted, is considered to be registration at the West Lafayette Campus.

A student seeking to re-enter the Ph.D. program is required to submit a new application as well as updated transcripts (if the applicant has pursued any academic studies in the interim). The student may also be required to submit a personal statement and new letters of recommendation.

It is also a Graduate School policy that course credits earned by a student whose graduate study and/or professional activity has been inactive for five years or more cannot be used on a plan of study for an advanced degree. A plan of study approved prior to such a period of inactivity is deemed invalid. Likewise, a Preliminary Examination passed prior to such a period of inactivity must be repeated.
SECTI ON 5.0. ELECTRONIC PLAN OF STUDY REQUIREMENTS

The philosophy of the Graduate School of Purdue University is that advanced study should be tailored to the individual and his or her professional and intellectual objectives. Thus, the plan of study is unique to each student's needs and desires within the framework set forth by requirements for the Polytechnic doctoral degree.

The development of the plan of study begins as part of the initial course registration. The major professor will discuss the student's background, interests, and degree objectives as part of the preparation for the first enrollment. Based on this discussion, the major professor will request spaces in the appropriate courses. The major professor will also recommend possible cognate areas and advisors.

In addition to course work requirements, each student must complete and successfully defend their dissertation research (see section 7.0). The plan of study should be developed to support this research requirement.

The plan of study must list all courses the student will take to meet the degree requirements. These include the names for the primary and cognate areas of study; the course number, course title, and credits for each course; the date when the course was or will be completed; and the research area. The plan of study is electronically signed by each member of the advisory committee and the student. After review, the plan is electronically signed by the Associate Dean for Academic Affairs. The plan is then submitted to the Graduate School for formal approval. After an approved Plan of Study is on file, committee and course changes can be made at any time up until graduation. This can be accomplished by clicking on the Create Change Request link available next to an Approved plan of study. The Change Request link will initiate a Change Request form.

5.1. Filing the Plan of Study

The following instructions detail how to set up and file your plan of study.

1. Go to myPurdue at [https://mypurdue.purdue.edu](https://mypurdue.purdue.edu). (If you have never set up your Purdue Career or Email Accounts, you must that first).
   a. To activate your Purdue Career Account, visit [https://www.purdue.edu/apps/account/AccountSetup](https://www.purdue.edu/apps/account/AccountSetup) and fill in the requested information.
   b. For Email Account setup information, visit [http://www.itap.purdue.edu/email/atPurdue](http://www.itap.purdue.edu/email/atPurdue).
   c. For additional information and help related to myPurdue or your Purdue Accounts, contact the Purdue Help Desk at (765) 494-4000 or itap@purdue.edu.
2. Click on the Academic tab of myPurdue.
3. Click on the Graduate School Plan of Study link to log in.
4. Click on the Plan of Study Generator (POSG) link.
5. Click on Create New Plan of Study.
6. Once in the POSG, refer to the Help buttons located on each page to assist you. You may save your POS and return to it later if you cannot complete it in one sitting.
7. Once you are completed with your plan of study, finalize it to submit it.

Be sure to review the Plan of Study Checklist to verify completeness of your EPOS before submitting it in final form:

https://polytechnic.purdue.edu/degrees/phd-technology/resources/forms-and-documents

Upon approval by the Graduate School, the plan of study becomes a contract among the student, the Purdue Polytechnic Institute, and the Graduate School. When all requirements of the plan of study are completed satisfactorily, the student is awarded the Doctor of Philosophy (Ph.D.) degree. Refer to the sample plan of study form in Appendix E. Appendix F shows a flowchart of the EPOS creation and approval process.

NOTE: If a course in the plan of study is not available when the student needs it, or if the direction of the student’s research topic changes, students can submit an EPOS change of plan of study. Once filed, the change request requires prior signatories to approve the requested change.

NOTE: See section 4.1.5 for information about transfer credit.

5.2. Independent Study Credit

A maximum of nine (9) semester hours of independent study credit (e.g., TECH 59000 or 69000) may be included in a plan of study. Independent study courses require a specific proposal and approval process as defined in section 6.0 of this handbook.

5.3. Dissertation Research Credit

Doctoral students in the Polytechnic are required to have a minimum of 15 credit hours of TECH 699 Ph.D. Thesis Research. This course and its respective credit are not shown in the listing of courses on the Plan of Study. Instead, it is acknowledged in the notes field. For example, the notes field in the EPOS may include the following:

“The student will complete 15 credit hours of TECH 69900 to satisfy the dissertation requirement.”

5.4. Examination Requirements

The Purdue Polytechnic Institute’s Ph.D. program requires students to successfully demonstrate an adequate level of competence as documented by their individual performance on examinations. Both master’s plus and direct to Ph.D. students
take preliminary examinations near the end of their coursework. Direct to Ph.D. students take an additional qualifying examination.

5.4.1. Qualifying Examination

To demonstrate to the faculty that a student is qualified to continue in the Ph.D. program in the Purdue Polytechnic Institute, the student is required to take and pass written qualifying examinations. These qualifying examinations are offered once each semester (except summer) at approximately mid semester. The student must take the qualifying examination after the second semester of enrollment in the Ph.D. program. Exceptions to this may be granted at the request of the advisor/chair and approval of the Associate Dean for Academic Affairs. However qualifying exams should occur no later than the fourth semester of study.

5.4.1.1. Examination Timing, Scoring and Reporting

The qualifying exam will be offered on November 1st and April 1st of each academic year (or the Monday closest to that day). The student will take the Minor exam from 8:30 AM to 12:00 PM and the major exam from 1:00 PM to 4:30 PM. The Associate Dean for Academic Affairs (or designee) will administrate the exam.

Examinations are prepared and graded by the appropriate doctoral graduate committee in the student’s home department. The scores and a recommendation for continuation or dismissal are forwarded to the student's major professor and the Associate Dean for Academic Affairs. The Associate Dean for Academic Affairs notifies the student of the results of her/his examination.

5.4.1.2. Composition of the Exam

Examinations are offered in each of the following areas:

1. Research Design (i.e., TECH 64600)
2. Quantitative Research Methods or Qualitative Research Methods (i.e., TECH 62100, EDCI 61500 or equivalent)
3. Technology (MET 52700)
4. Specific Major area of Interest (e.g., CIT, CGT, MET, etc.).

The student shall be required to take examinations in: research design, quantitative or qualitative research, technology and major area of interest. In order to take the qualifying exam, the student must have completed nine (9) credit hours in Discovery Foundations including TECH 64600 or equivalent research methods course AND IT 50700 or equivalent introductory statistics AND a specific research methods class (quantitative or qualitative). The student must have completed MET 52700 or equivalent and 2 classes in their major area of specialization in order to sit for the qualifying exam.

5.4.1.3. Failure of the Qualifying Exam

In the event that a student fails one or more of the examinations, s/he must repeat that examination or examinations the next time they are offered. If, upon repeating the examination, the student still fails to achieve acceptable scores, s/he will be dismissed.
from the Purdue Polytechnic Institute Ph.D. program at the end of the semester in which
the qualifying exams were taken a second time. There will be no appeal process if a
student is dismissed following failure of the qualifying exams a second time.

5.4.2. Preliminary Examination Requirement

The purpose of the preliminary examination is to comprehensively assess the
student’s mastery of the knowledge base(s) encompassed by the plan of study. Successful
performance on the comprehensive examination admits the student to candidacy for the
Ph.D. Unsuccessful performance can result in assignment of additional requirements or
dismissal from the program.

One of the major outcomes of the preliminary examination is that students work
actively to synthesize knowledge and skills learned while completing the courses
required by their plan of study. To this end, major advisors need to work carefully with
advisees over an extended period of time to enable them to evolve such integrated
capabilities. It is also recommended that students at similar stages in their pursuit of the
Ph.D. form independent study groups to help each other employ peer learning to
assemble such capabilities.

Purdue University Graduate School policy states that “To become eligible to take
the examination, the student must have filed a plan of study, satisfactorily completed
most of the formal study, and satisfied any foreign language requirements (if required).
The examination should be scheduled as soon as possible and must be completed at least
three sessions before the expected date of the Ph.D. final examination.”

The Preliminary examination should be designed by each student’s Ph.D.
committee to assess the student’s:

- Mastery of the technology focus area consistent with the student’s plan of study,
  their articulated purpose for pursuing Ph.D. study, and the Ph.D. program’s mission.
- Understanding of the cognate discipline and its interface with the student’s
technology focus area consistent with their articulated purpose for pursuing Ph.D.
  study, and the Ph.D. program’s mission
- Ability to assess, design and conduct research appropriate to the student’s
  articulated purpose for pursuing Ph.D. study, and the Ph.D. program’s mission

While the form(s) of this exam is subject to specification by each student’s Ph.D.
committee, it is intended to systematically assess integrated competence in the
technology major, discovery foundations and cognate components of the plan of
study. Performance will be judged by the student’s graduate committee and will be
reported to the Graduate School.

Typically this examination will be scheduled during the semester in which the
student completes their coursework. This examination must consist of both a written
examination and a subsequent oral component. Typically the written examination is
comprised of questions provided in advance by the committee to which the student
formally responds outside of the classroom setting over a defined, two to four week period. If a conventional test is used, two days of assessment are typical and the major professor is responsible for proctoring the exam. The student’s Ph.D. committee faculty may specify what, if any, resources the student will be permitted access to during each portion of the examination.

Faculty on the student’s Ph.D. committee are to be provided with a complete copy of all of the student’s written responses to all portions of the examination. Committees may, however, divide the formal assessment tasks as they deem appropriate. It is recommended that faculty communicate their assessment of the examination to the major advisor at least one week in advance of the oral portion of the examination. The major advisor may use, as appropriate, any of this input while working with the student to help prepare for the oral examination.

It is recommended that at least a two hour time block be scheduled for the oral portion of the preliminary examination. To schedule the preliminary exam, a Graduate School Form 8: Request to Appoint an Examination Committee needs to be electronically filed in myPurdue a minimum of two (2) weeks prior to the scheduled examination date.

To insure that student knowledge is current, the Graduate School stipulates that “A preliminary examination passed by a student whose graduate study and/or professional activity has been inactive for five years or more is invalid. (See Section III-B-5 of the Graduate School publication Policies and Procedures for Administering Graduate Student Programs.)” Given this, if this amount of time has elapsed, Purdue Polytechnic Institute Ph.D. committees are to reassess the student’s mastery of the discipline by retesting according to the same guidelines as the initial preliminary examination.

The results of the preliminary examination are pass, pass with conditions, or non-acceptable performance. In case of the latter assessment, faculty will be asked to specify whether the student is eligible to retest. If the latter, at least one semester of study and preparation must transpire before a retest is permitted. Upon completion of the oral portion of the preliminary examination, the examination results, the examination itself, and a copy of the student’s responses are forwarded to the Polytechnic Graduate Studies Office. The examination report will be recorded and then forwarded to the Graduate School and the examination and responses will be filed in the student’s master file.

NOTE: At least three academic sessions devoted to research and writing must elapse between the preliminary and final Ph.D. examinations. For example, if the preliminary examination is completed in spring semester 2010, the earliest a student can defend and graduate is spring semester 2011. Note that summer counts as an academic session so long as the student registers for research credits.
5.4.3. Preliminary Examining Committee

The preliminary examining committee must consist of a minimum of three members of the graduate faculty who need not be faculty members with whom the student has taken coursework. All members of the examining committee are to be notified of the scheduled examination. Other faculty members may be requested by any member of the examining committee to participate, without vote, in the examination, and any interested faculty member may be present, without vote. Although only three committee members are required, if the committee has four or more members, a single member may withhold his or her signature of approval.

5.4.4. Dissertation Proposal Defense Meeting Requirement

While not an examination, the proposal defense meeting follows the preliminary oral examination and precedes the beginning of the doctoral research. The proposal meeting assembles the final oral examination committee to preview and approve the dissertation proposal for research. The proposal typically includes the first three chapters of the dissertation, while the proposal defense meeting typically includes a presentation and question and answer period.

**NOTE:** The dissertation proposal defense meeting cannot occur in the same semester as the preliminary examination.

5.4.5. Final Examination Requirement

A Final Examination is required after the student’s Ph.D. research is completed and a satisfactory dissertation, as deemed by the Ph.D. advisor or co-advisors, is written. The Graduate School Form 8: *Request to Appoint an Examination Committee* is filed electronically and is used to schedule the meeting. It must be filed two (2) weeks prior to the scheduled examination date.

The purpose of this examination is to assess the Ph.D. candidate’s capability to demonstrate advanced mastery of research as well as the specific topic investigated. This examination requires:

- Distribution of the advisor-approved dissertation draft to all Ph.D. committee members, and the Purdue Polytechnic Institute Associate Dean for Graduate Studies, at least two weeks in advance of the examination date.
- Oral presentation of the research to the Ph.D. examination committee during a publicized session open to the university community
- An oral examination by the Ph.D. examination committee members conducted by the committee in closed session.

5.4.6. Proposal Defense and Final Examination Committee

The proposal defense and final examination committee will consist of a minimum of four members of the graduate faculty. The Ph.D. candidate and all examination committee members are expected to participate in the proposal defense and final examination. At least three of the committee members, including the major professor, must be physically present for the duration of the examination. Other members may
participate using telecommunication if necessary. Performance on the final examination will be judged by the official Ph.D. examination committee appointed on the GS Form 8. Successful mastery is required in order for the Ph.D. to be awarded.

**NOTE:** Often the final examination committee includes the three faculty who served on the preliminary examination committee, plus another individual.

5.4.7. Rules and Regulations Related to Doctoral Proposals, Research, and Examinations

It is the policy of the university and of the Purdue Polytechnic Institute that:

- At least three academic sessions devoted to research and writing must elapse between the preliminary and final Ph.D. examinations.
- Final Ph.D. examinations will be announced so that interested members of the Purdue faculty and student body may attend up until the point of committee deliberations which shall be held in private.
- Final examinations must be held before the last week of classes.
- When the Request for Appointment of Examining Committee (G.S. Form 8) is approved by the Graduate School, the Polytechnic Graduate Studies Office will receive the following additional materials for the candidate:
  a) Candidate audit form
  b) Survey of Earned Doctorate

5.5. Publication Requirement

Scholarship plays a very important role in the preparation of M.S. and Ph.D. students in the Purdue Polytechnic Institute. Graduate students need to understand the role of scholarship in higher education as well as its importance in disseminating new knowledge. The Polytechnic values the role and contribution of its faculty and students in its efforts to engage in discovery with impact. It is important that graduate students learn how to create and present scholarship as part of their academic training. For these reasons, the Purdue Polytechnic Institute requires all Ph.D. students and M.S. thesis students to engage in scholarship.

Ph.D. students are required to be first author on at least one refereed journal article or refereed conference proceedings and co-author on one other refereed journal article or refereed conference proceeding. These articles may be published or “in review”.

Exceptions to the above requirements have to be approved by the student’s committee chair and the Associate Dean for Graduate Studies. Some other form of scholarship should be substituted for the above if the student requests an exception.

5.6. Publication of the Research

Because of the usual intense and dynamic interaction of professor and Ph.D. student, there is an expectation the research will lead to one or more joint publications. Typically, the designation of authorships is mutually agreed upon and it follows an order
of decreasing contribution to the research and publication. Students and advisors should also note the guidelines for ownership of intellectual property developed by Purdue University’s Graduate School.

**NOTE:** All faculty and students should be familiar with Purdue University’s policy on intellectual property. See Purdue University's Policy VIII.4.1, Intellectual Property at: [http://www.purdue.edu/policies/documents/VIII_000.pdf](http://www.purdue.edu/policies/documents/VIII_000.pdf)

### 5.7. Recommended International Experience

Sources cite many benefits of study abroad programs for both graduate and undergraduate students, as well as faculty, within the university environment. In addition to learning about globalization and related issues, the experience of short term study outside the US, conducting international presentations, and leadership or involvement in international projects or project teams can have a positive professional affect on students. Purdue is a global institution and in the Strategic Plan one of the three major goals is “Meeting global challenges by enhancing Purdue’s presence and impact in addressing grand challenges of humanity”. For these reasons, an international experience is recommended for all graduate students in the Polytechnic.

It is recommended that M.S. and Ph.D. students in the Polytechnic participate in one of the following:

- Enrolling in one graduate level course dealing with globalization, internationalization, or culture (examples: ECON 53400, EDCI 68500, EDST 50400, FR 58100, GER 58100, HK 58100, JPNS 54300, MET 52700, MGMT 60100 or 64900, OBHR 65000, OLS 57800, POL 53000, RUS 58100, SPAN 68200).
- Participate in a short-term study abroad course
- Participate in the Atlantis concurrent degree program
- Present a paper at an international conference outside the U.S.
- Participate in an international industrial project that requires travel abroad or interaction with international participants
SECTION 6.0. REGISTRATION FOR AN INDEPENDENT STUDY COURSE
(TECH 69000)

Independent study courses may be included in a graduate plan of study. A copy of the final product or a complete report of the study must be submitted to the professor in charge of the independent study. Failure to do so may result in an incomplete or failing grade. This work must be independent of other required course studies (previous, existing, or future). Registration in TECH 690 may not be initiated until all of the following procedures have been satisfied.

To enroll in an independent study the student must:

1. Obtain an independent study authorization form from the Graduate Studies web site at https://polytechnic.purdue.edu/sites/default/files/files/TECH_Independent_Study_Authorization_Jan_2013.pdf. This form is a request for permission to enroll in an independent study course (refer to the sample form in Appendix H).

2. Meet with the major professor to discuss the proposed study and secure his/her approval.

3. Prepare a detailed prospectus (typed or word processed, APA format, title page) including the following sections:

   a) Problem: Describe the problem you propose to address clearly, delimit the problem area, and provide a rationale for its significance.

   b) Purpose and Objectives: Provide a numbered listing of all educational objectives to be accomplished.

   c) Define how the course relates to your degree objectives, i.e., what it will do for you.

   d) Procedures: Explain the methods to be used and any unusual requirements for materials, equipment, or facilities. A graphic time line and two progress reports must by submitted by the student to the professor in charge between weeks three and ten of the semester. Provide a narrative, flow chart, or outline of step-by-step procedures used to complete the study. If applicable, provide a supply and materials cost worksheet.

   e) Outcomes: Itemize and describe the deliverables/products, i.e., tangible results (software source code, papers, reports, products, or summaries) of the study and list whom will receive copies (office, professor in charge, student).

   NOTE: This prospectus should be about one to three pages in length. A good way to prepare a prospectus is to subhead it using the above categories and present the information below each subheading.
f) Meet with the professor (the professor in charge) who will guide the study to discuss the prospectus.

g) Revise the prospectus as necessary. Complete the INDEPENDENT STUDY AUTHORIZATION FORM (refer to the sample in Appendix H), attach it to the prospectus, and secure the signatures of the major professor (academic advisor), the professor in charge, and this professor’s Department Head.

h) Submit the signed copy of the request to the Polytechnic Office of Graduate Studies along with a completed Form 23 (see Appendix I). The Form 23 MUST NOT be submitted for processing prior to securing the necessary approvals for the prospectus.

**NOTE:** Independent study credit may not be used for graduate research credit (i.e., as a substitute for required TECH 699 credit hours).
SECTION 7.0. THE DOCTORAL DISSERTATION

A doctoral dissertation in technology is a significant piece of original work, typically involving research, a formal written description of that research, and an oral defense of the research. Typically, the dissertation contributes new knowledge to the discipline against the backdrop of what others have contributed to the topic as well (via the literature review). The tone should be scholarly, with a primary audience of other researchers.

To pursue the development of a dissertation, students must first develop a dissertation proposal and secure its approval by their final examination committee. A formal meeting of the student’s graduate committee is required to evaluate the proposal and the Polytechnic Graduate Studies Office is to be provided a copy of the approved proposal and the Polytechnic Form 2, *Acceptance of Graduate Proposal* (see Appendix J). Proposals are developed pursuant to student enrollment in one (1) to three hours (3) of TECH 699. Subsequent enrollment in TECH 699 for the additional required credits is contingent upon filing of the approved proposal.

*NOTE: The primary difference between a thesis and a dissertation is scope, that is, size and breadth of the project.*

7.1. Key Points about the Dissertation

1. A dissertation typically addresses a theory or knowledge gap. Often it does so by testing or evaluating or by developing and validating a concept or methodology.

2. Dissertations require documentation of the significance of the problem or gap in knowledge they address (i.e., they make a contribution to the discipline).

3. All dissertations result in a clearly identifiable new knowledge of significance (requires documentation of originality).

4. Generally dissertations involve the use of one or more of the accepted research paradigms and established research techniques. They may be quantitative or qualitative in nature. They may involve historical or philosophical, scientific or technological perspectives. They may be experimental or developmental in methodology. Other forms/paradigms of research scholarship may also be employed if approved by the committee.

5. The dissertation format must follow the *Purdue Graduate School Thesis Guidelines* as supplemented and detailed in this handbook. The format is APA citation format with some specific differences (see section 8.5 and 8.6).

6. Dissertations demonstrate a high level of reasoning, effective written communication, and are documented in a form that permits replication.

7. Dissertations are necessarily filed in Purdue’s library (via the E-pubs section). Dissertation containing intellectual property are marked as confidential and not made publicly available.
8. Dissertations are filed with the University and the ProQuest Repository (http://www.proquest.com/). Dissertation containing intellectual property are marked as confidential and not made publicly available.
SECTION 8.0. DISSERTATION PROCEDURES

The culminating demonstration of successful performance in the student’s Ph.D. program is the design, execution, and documentation of the dissertation, and its defense. Any form of research deemed acceptable and appropriate to the Ph.D. committee may be used to satisfy this requirement. No part of this handbook is intended to signal a preference for quantitative or qualitative research or for research from any particular paradigm.

Nevertheless, quality research cannot be rushed. Given this, it is encouraged that students and Ph.D. advisors begin work on the research project as early as possible. Often, for students employing a typical four year timeline, the third year is appropriately used to define the research topic and generate the proposal (or fifth year for a six year timeline). The earlier this occurs during this time the better. The gradual use of TECH 699 credits is one way to encourage such progress, although the bulk of them should be taken only after the student has completed the preliminary examination and has an approved dissertation proposal.

Procedurally a student must:

a) Enroll in TECH 699 (typically one (1) credit hour) to generate and successfully defend the dissertation research proposal.
b) Defend the proposal in front of final examination committee (comprised of at least four members).
c) Obtain appropriate approvals (if applicable) to conduct research (CITI, IRB, HIPAA, FERPA, etc).
d) If approved, execute the dissertation research (during this time students enroll in subsequent hours of TECH 699).
e) Upon completion of the dissertation:
   a. Thesis students must meet with the Polytechnic Thesis Advisor for approval of their format
   b. Defend project in front of final examination graduate committee.
   c. Upon successful defense of the project, students deposit the dissertation with the university, college, and with their committee.

8.1. TECH 69900 Research Ph.D. Thesis Enrollment

Exact enrollment timing can vary, but at least three consecutive enrollments in TECH 699 are required. Typically, the first enrollment is for one (1) to three (3) semester hours of credit following the preliminary examination (but earlier enrollment is permitted if deemed appropriate). During this academic session, the dissertation proposal is developed and approved by the final examination committee.

NOTE: At least three academic sessions devoted to research and writing must elapse between the preliminary and final Ph.D. examinations. During each of these three sessions, the student should enroll in TECH 699 credit.
8.2. Grades for TECH 69900 Ph.D. Thesis Research

Performance in any TECH 699 Ph.D. Thesis Research course is graded using the following scale:

- **Pass** – used where the student has met or exceeded requirements.
- **No Pass** – used where the student has not met requirements and has not invested appropriate amounts of effort.
- **Incomplete** – used where the student has invested appropriate amounts of satisfactory effort but the project is not yet finished.

**NOTE:** Graduate students that receive an incomplete in a course will have one semester and 12 weeks into the following semester to complete the course. If that is not done, the Registrar automatically makes the grade a failure.

8.3. Ph.D. Dissertation Proposal Defense

Once the dissertation proposal has been completed (the proposal typically includes the first three chapters), the student works with the graduate chair to establish a meeting of the final examination committee for defense and approval of the proposal. Typically the student does a 30 to 40 minute presentation, with sufficient time left to answer questions. Once the proposal is approved by the committee, a copy of the Polytechnic Form 2 (signed by all committee members and the graduate student) and the final proposal are deposited in the Polytechnic Graduate Studies office. See Appendix J for an example of the Polytechnic Form 2.

**NOTE:** The proposal defense and the final defense CANNOT occur in the same semester. The proposal defense meeting must be scheduled two (2) weeks in advance of the date of the proposal defense. The proposal must also be provided to the committee two (2) weeks in advance of the date of the proposal defense.

8.4. APA and Formatting Requirements for Dissertations

Theses in the Purdue Polytechnic Institute follow the university guidelines for formatting. Generally the formatting is aligned with the APA parenthetical citation format with some specific additions. Directed projects in the Purdue Polytechnic Institute generally follow the same format, however at the discretion of the chair of the student’s directed project committee, the student may be directed to use a different format.

Theses and directed projects (for both proposals and final documentation) should utilize the document templates provided by the university and/or college. Templates for Word 2010 and Latex exist. Templates are provided on the following two URLs:

- University Templates (for Word):
• Polytechnic Template (for Latex): https://polytechnic.purdue.edu/sites/default/files/files/LaTeX%20Thesis%20Template%281%29.zip

**NOTE:** The Microsoft Word template is available via the university’s web site. Those students wanting to use Latex should use the template provided on the Polytechnic web site.

• Purdue University are providing free Overleaf Pro accounts for students, faculty and staff who would like to use a collaborative, online LaTex editor for their project. Start sign up for Purdue Overleaf at the link below. https://www.overleaf.com/edu/purdue#!overview

Overleaf is designed to make the process of writing, editing and producing your research papers and project reports much quicker for both you and your collaborators. Overleaf can be linked to other services such as Mendeley, Git and Plot.ly to best fit into your workflow.

Most students use the Microsoft Word templates as the basis for formatting their proposals and final documentation. The templates include styles for heading elements, tables, figures, captions, et cetera. It is recommended that students use the templates for formatting their proposals and final documents.

**8.4.1. Notes about the Templates**

The following lists some things to note about using the templates and formatting in general:

• In the required course TECH 64600, students will be familiarized with the templates and use them to generate their projects in the course. Most students take TECH 646 in the same semester that they intend to defend their proposal.

• The University template will not automatically format all elements as needed within the Purdue Polytechnic Institute. Specific elements such as: figure captions, table captions, table verticals, table of contents, and list of tables and figures will require some manual adjustments to get them to format correctly.

• All Ph.D. students are required to have a thesis format meeting prior to their final oral defense of their dissertation. The Polytechnic Thesis Format Advisor is willing to meet with any student who needs an introduction to the thesis templates prior to the creation of their proposal. Students may email the Polytechnic Thesis Advisor to set up a meeting or to get examples of prior formatted theses.

• The Graduate School at Purdue typically hosts workshops on the use of the thesis templates each semester. Consult the Graduate School web site for the dates and times of these workshops.

• Other specifics of the format can be seen in an example document that can be used as a guide for formatting theses and dissertations (https://polytechnic.purdue.edu/sites/default/files/files/mohler_dissertation.pdf)
8.5. Preparing the Dissertation Proposal

Although the bulk of the student’s work towards meeting this requirement typically occurs after the student’s passing of the preliminary examination, the student may submit their research proposal to their Ph.D. committee at any time deemed appropriate to their Ph.D. advisor/co-advisors. Students should discuss with their Ph.D. advisor, the procedures she or he wishes to have followed in preparing the proposal and vetting it with the other committee members. Usually, advisors will want to approve a proposal draft prior to it being circulated to the other members of the student’s committee.

The faculty’s expectation for the Ph.D. research proposal is that it is of sufficient detail to enable careful assessment of the project’s significance, its locus within the literature, and the validity and reliability of the proposed methodology and instrumentation. This is done via the first three chapters of the dissertation. It is expected that the graduate student will be the primary person conducting the study although studies situated within larger initiative contexts are certainly permissible. If such conditions exist, it is encouraged that the student and advisor thoroughly explore all potential implications of the situation for the student. These include dependence on others outside of the student’s control, shared intellectual property rights, restrictions on publications, timing of progress and the like.

Proposals must be succinct and direct. Clear, jargon-free prose that establishes the need for the study and a proposed method of solution are required—nothing more (or less). While POLYTECHNIC faculty have not established specific proposal length requirements, a proposal should be sufficiently detailed to enable the graduate committee to render effective judgment and share appropriate advice on how to proceed. Typically, proposals are 30-50 pages (including figures, tables, but not counting references or appendices) to communicate essential detail.

Beyond content, there are two important factors in the writing of any professional paper, be it a proposal or a final report. One factor is format; the other is style. Format is the physical layout of a paper. Rules for indentation, type face, line length, etc., are considered format issues. Style requirements are created to facilitate clear communication. Globally, style indicates the manner of expression and the sequence in which material is organized. At a micro level, style concerns formality, person, tense, spelling, and abbreviation standards. Both format and style are important, and both have their place. Most publication manuals include both style and format guidelines.

Proposals are always written in future tense. Thus, statements that refer to procedures should be stated as, "This proposed study will collect data using . . ." or "Results of this study will be used to . . ." Similarly, Purdue Polytechnic Institute standards recommend that the proposal be written in third person. However, depending on the type of work being executed, first person writing may be acceptable. For example, most quantitative research projects use third person. Most qualitative research projects use first person. Students should consult with their graduate chair and discuss which is
appropriate based upon the direction of their research and the methodology they intent to employ.

**NOTE:** While the student is working on the development of their research proposal, and then subsequently engages in conducting their research, it is encouraged that they enroll in several successive semesters of TECH 621 Seminar in Technology. During these enrollments they will have the opportunity to learn of other students’ work and see examples of proposals and research activity. Critical evaluations of research quality and effectiveness will be practiced and they will have the opportunity of presenting their proposal in practice form. Upon completion of the proposal defense, and acceptance, the student and their major advisor are to file a revised copy of the proposal and the completed POLYTECHNIC Form 2 with the Polytechnic Graduate Studies Office.

### 8.6. Dissertation Proposal Contents

The following sections provide an overview of the major parts of a dissertation proposal.

#### 8.6.1. Dissertation Cover Page

The dissertation cover page is established based upon the University formatting guidelines. Appendix K shows an example of the dissertation cover page. Note that the thesis and dissertation use the same page format. The thesis template (if macros are turned on) will allow the user to select the appropriate elements from a drop down list. Students should fill in the title (in all caps), type (Dissertation), name, and graduate month and year of the dissertation cover page.

Once the dissertation proposal is approved, the dissertation proposal is filed with the Office of Graduate Studies in the Purdue Polytechnic Institute following the proposal defense meeting. This original document then becomes the contract for the dissertation. Students must also submit a signed POLYTECHNIC Form 2: Acceptance of Graduate Proposal (see Appendix J).

#### 8.6.2. Definitions

Definitions must be included in a proposal whenever it is necessary to inform the reader of the unique way in which the terms are to be used in the proposed research. For example, if learning is to be defined as "a change in behavior", both the entering and terminal behaviors must be defined. But, when terms are used in standard ways, it is not necessary to include the definitions.

An important issue to remember related to definitions is that each definition should have an associated citation. The students use (and definition) of terms should be based upon the academic or industrial literature. As such, because definitions usually use the words of others, most definitions are typically directly quoted source material. When this is the case, the citation should include source, date as well as page number where the material occurs.
Definition lists usually also include acronyms and abbreviations. Be sure to spell out all acronyms or abbreviations not only in the definitions list, but also in the first instance of their use in the body text of the proposal. The sample paragraph below is what you should NOT do:

What would happen if the president of the BBB requested the assistance of the FTC in order to convince the DOC that it should investigate the effect of WSJ interference with NAFTA signatories regarding concerns about the impact of UL standards on GATT?

The preceding statement demonstrates the inappropriate and excessive use of acronyms (as well as one that is overly long and cumbersome). If acronyms are used to reduce volume or repetition in a proposal, convention requires the term to be spelled out in full the first time it is used and then followed by the acronym in parentheses. Thereafter, the acronym may be used in lieu of the full term. Even when spelled out on first use, abbreviations or acronyms should appear in the definition list.

NOTE: The thesis template provides a section for the definitions and acronyms in the front of the template (before the abstract).

8.6.3. Abstract

The student must prepare a one (maximum) page abstract that succinctly describes the proposed problem to be addressed, purpose for the study, the significance of the proposed study, an overview of the proposed methods to be employed and of the anticipated deliverables. Typically this section is less than 400 words.

8.6.4. Chapter 1: Introduction

The form of the introduction will vary with the nature of the proposed project, however it usually does not have a heading (the title of the chapter serves as the heading). Typically it ranges from one to two pages in length. It is important to remember that this is the sole chance to establish a frame of reference in the reader's mind. Appropriate introductions are brief and designed to establish the need for a study. There is no "right way" to write an introduction. There are, however, several possible ways to craft an introduction that will accomplish its intended goal. One common method is to identify the problem in a global way (without specifics). This approach creates an overall frame of reference that makes it much easier for the reader to focus on the more detailed portions of the proposal.

8.6.4.1. Statement of the Problem

There is no section of a proposal that gives beginning proposal writers more challenge than the "Statement of the Problem" section. Too often early drafts present either a restatement of the introduction, a detailed description of the methods to be used, or a suggested solution. None of these are appropriate statements of the problem. A problem is something that is wrong. Therefore, the statement of the problem is merely a
brief description of what is wrong, written in specific enough terms that the reader can see the problem and not simply a problem space. One test of the quality of a problem statement is always, "Could the problem be recognized if the statement were being read for the first time?"

8.6.4.2. Research Question/Hypotheses

Once the statement of the problem is generated the research question and hypotheses follow. The research question is a testable statement of the problem; the guiding mission for the research. For example, maybe the statement of the problem acknowledges that a new method of learning is needed within a particular class. The research question would then be phrased, “What is the effect of learning technique X on scores in class Y?” This statement would be used to generate hypotheses that could then be tested statistically.

Another example might be that a new algorithm is needed to solve a problem on in some computer domain. The research question might be, “Can an algorithm be developed to solve computer security in educational environments?” In this example, rather than statistics being used, the student might create the algorithm, test it, to see if it works or does not work under certain conditions.

A final example might be that company X needs to solve a workflow issue in a manufacturing process. The research question might be, “Can software X be used to make the workflow in company ABC more efficient and effective?” In this example, maybe the student will implement the software and then report on the effect related to efficiency and effectiveness.

While these are merely examples (and should not be assumed to fully define the wide range of technology dissertations), nearly all projects should have a defined research question that is derived from the statement of the problem. Such a question should also be testable. Whether the dissertation has hypotheses will depend on the type of research being conducted (quantitative or qualitative).

8.6.4.3. Significance of the Problem

Once the problem has been stated, the significance of the problem must be established. The significance section should be drafted in a manner that removes any question of the importance of the proposed study. This is the part of the proposal in which the proposed project can be tied to the student's overall plan of study and career goals. Generally, this section should "sell" the project as being worthy of doing in the business/industry and/or academic/disciplinary context. Often students will also deal with how or why this is important beyond the confines of Purdue. What contribution will be made to industry, academia or the world at large as a result?

One of the effective methods of strengthening this section is to highlight key citations from credible sources that indicate that the problem is real and that things would be better if it were solved. However, this should not be overdone. Selection of two or
three major supporting pieces of literature is sufficient. The review of literature can be used to expand this support.

8.6.4.4. Statement of the Purpose/Scope

Once the problem and its significance have been stated, the purpose of the project must be described. Here is where the student indicates what they propose to do about the problem, that is, what part of it they wish to address and what the deliverables of their work will be. Often this section will also be used to define and limit (generally) the scope of the project. Typically the nouns and verbs that are a part of the statement of the problem or research question will be clarified and bounded. Later in the proposal the assumptions, limitations and delimitations provide further insight related to the scope and outline specific details related to scope limitation.

8.6.4.5. Assumptions

Every study requires some assumptions; they will vary with the type of problem. Typically assumptions are things that could affect the results of the project, but are beyond the researcher’s control. For example, one assumption could be that all members of the group being studied know Windows-based operating systems. Another assumption may be that employees will be willing to participate in the training exercise being proposed. Assumptions, of course, must be established as part of the proposal writing stage and they must be approved by the major professor and committee.

8.6.4.6. Limitations

Limitations are descriptions of potential weaknesses of a study. If the student knows about these at the time of generating the proposal they are advised to reveal them explicitly in advance. Often, however, in addition to any weaknesses known in advance of conducting a project, some invariably arise during the course of project execution. When this occurs, these new limitations are to be added to the limitations section of the final project report and they must be taken into account when discussing the project conclusions.

**NOTE:** The approved proposal is the contract for the study. If the proposal were ambiguous about its limits, the student could be required to gather further information to fill in missing gaps. It is very important to outline limitations in the proposal as they often assist in making sure committee expectations and student expectations match.

8.6.4.7. Delimitations

Delimitations are restrictions in the scope of a project, that is, specific statements about things that you will NOT address. There are always constraining factors in a study. This is particularly true of projects in which time, money, and other resources are limited to those that the individual student can bring to the study.

A delimitation is a factor that will narrow the scope of the study being proposed. This is a factor that is known about before the study is performed. For example, one delimitation may be that time does not allow a follow-up after the initial treatment or
evaluation. Will the study be limited to a single facility of Corporation X, or will it be conducted at multiple sites? Clearly, a multiple-site study is more generalizable than a study at a single location. However students must strike appropriate balance between generalizability and resource limits.

**NOTE:** Delimitations are distinctly different from limitations. A limitation is a potential weakness in a study. A delimitation is a specific, conscious limit in scope. Limits affect inference; delimits affect breadth of study.

### 8.6.5. Chapter 2: Review of Literature

The review of literature serves several important functions. First, it is a method to indicate that the problem is more universal than the specific proposal. Second, it serves as a justification for the proposed study in that others have addressed related problems. Third, it positions the work in the field giving context to what has and has not been done and where this project/thesis is positioned therein. Fourth, it identifies possible methods for the conduct of the study by identifying possible data collection strategies, statistical procedures, or sources of other procedural information.

There are three principle justifications for additional investigation of a problem. One justification is that there are plausible alternative hypotheses to conclusions reported in existing studies. That is, there may be another possible variable that is influencing the results of existing studies. The second reason for proposing a new study is to determine if the reported study can be duplicated (replicated) in a new environment. A third reason for conducting a study accounts for the introduction of new data or procedures that have become available. In this case, the review of literature serves to demonstrate that no examples of the use of new techniques could be found.

Typically the review of the literature includes some appropriate description of four sections:

- A description of the problem and its significance
- A description of the methodology and terms employed to conduct the review of the literature itself
- A description of the literature pertinent to choices of data collection and analysis
- A summary of the review of the literature section

For the purposes of a proposal, the review of literature should focus on the key studies. These cannot be determined without extensive review of the literature prior to the preparation of the proposal. The review must be sufficiently extensive to insure that all sides of an issue have been researched and that a balanced evaluation of the problem area has been accomplished. Only the most germane or seminal studies should be included.

Committee members will typically ask discipline- and literature-based questions regarding the problem, significance, purpose and procedure sections. While it is imperative that the proposal’s literature review be summarized, it is equally important that extensive literature review be done before undertaking the writing of the proposal. It
is infinitely easier to do a thorough research review prior to the writing of the proposal for another reason: the more the problem is studied, the more possible solutions will be discovered. Also, it should be noted that reviewing of the literature does not cease after a proposal is accepted. Typically, effective researchers/developers continue to review the most pertinent literature throughout their conduct of the study. Subsequently, all appropriate literature will be integrated into the final report/thesis, so the time and effort will not be lost.

The review should generally concentrate on the current literature. For example, if the student is interested in a "Hawthorne effect" study, reference to the original work is only appropriate in a historical context. Failure to review the current literature can fatally flaw the proposal. A study that has recently been conducted may inadvertently be proposed.

8.6.6. Chapter 3: Methodology

All procedures to be used in the proposed study should be defined. Whenever possible, the proposed procedure should be justified by reference to other published studies that were used and recommend the steps defined. This will insure that the advisory committee understands the steps the student wishes to take and establishes those steps as appropriate in other published studies.

Dissertations in the Purdue Polytechnic Institute typically include the creation of something and an assessment of it. The “something” might be an intervention to be used on humans, an apparatus, a new process, a new technology and so forth. However, this alone is not sufficient. The thing created must also be assessed or evaluated. This assessment could be a physical test (such a testing the new thing to see how it performs), a statistical test (such as comparing measures before and after and executing statistics on it to evaluate how it performs).

Most dissertations can be classified along multiple dimensions as to the type of research being done. Projects can fall in to the following classifications:

- Quantitative, qualitative or mixed methods
- Clinical or technical
- Human subjects or “things and stuff”
- Theoretical or applied

The important thing to note about research in the Purdue Polytechnic Institute is that there is not one type or only one class of research. Research in the Purdue Polytechnic Institute is as varied as the physical attributes of the students who choose to pursue their degree within it.

8.6.7. List of References

The reference list should include only the publications cited in the body of the proposal. All reference citations within the body of the proposal and the reference list
must comply with the standards of the most recent edition of the Publication Manual of the American Psychological Association.

8.7. Obtaining Permissions to Conduct Research

To conduct research often requires various types of permission, depending on the type of research being conducted. For example, use of human subjects (even for what many consider innocuous research such as anonymous surveys) requires IRB approval. Purdue University’s Office for the Vice President for Research (VPR) provides information on the necessary approvals needed for various types of research (http://www.purdue.edu/research/vpr/). Graduate students are encouraged to discover the type of permissions they might need to obtain by reviewing the materials provided online via the VPR’s web site, discussing it with the chair of their graduate committee, and reviewing the available workshops provided by the Graduate School’s Responsible Conduct of Research (RCR) web site (http://www.purdue.edu/GRADSCHOOL/research/rcr/index.html).

8.8. Preparing the Final Dissertation

Students must become very familiar with the Purdue Graduate School’s Thesis Manual and template even before they begin writing the final dissertation. It is good practice for the student and their major professor to confer and agree on an initial outline for the dissertation. Furthermore, to make it easier to establish consistency throughout their document, students are advised to also become comfortable with the paragraph heading style and outlining features of their word processor.

NOTE: Color figures may be used within the dissertation.

NOTE: If a dissertation is greater than 350 pages, it must be separated into two volumes. Consult with the Graduate School for how this is done.

8.8.1. Final Dissertation Contents

The exact structure of a dissertation is subject to committee approved adaptations as long as the resulting document still meets the Polytechnic’s format parameters. The typical dissertation consists of five chapters which are supplemented by some preliminary and appendix materials as shown in the outline below:

- Cover Page
- Definitions
- Abstract
- Dedication
- Acknowledgements
- Table of Contents
- List of Tables
- List of Figures
- Chapter 1: Introduction
  - Statement of the Problem
  - Research Question/Hypotheses (if applicable)
8.8.2. Chapter 4: Presentation of the Data

Chapter 4 of the dissertation provides a presentation of the data. Typically chapter 4 does not include interpretations or conclusions; it simply presents the facts of what the data say. In quantitative research, this may be elaboration on the results of statistical tests, or the results of tests of an apparatus or new device. In qualitative research, this chapter typically presents the narratives from interviews, raw documents or other artifacts discovered. Interpretation of what the data mean, that is, conclusions made from the data are typically reserved for chapter 5 of the dissertation.

8.8.3. Chapter 5: Conclusions, Discussion, and Recommendations

Chapter 5 of the dissertation focuses on the conclusions that can be drawn from the data, as well as discussion (where the conclusions are typically tied back or compared to the literature in the field and the existing findings in the field). At the end of this chapter are recommendations; usually this is a discussion of parts of the dissertation that could be expanded to form entire studies in their own right. Recommendations may also include things the researcher would have done differently in the current study.

There are different ways to structure chapter 5. Sometimes the writer will take each research question and its associated hypotheses and deal with them in turn (in the
conclusions). At other times, other structures can be used. Ultimately, chapter 4 and 5 should be written as dictated by the research, the researcher, and the final examination committee.

**NOTE:** There are times when a dissertation might have more than five chapters. Depending on the scope or breadth of the study, more chapters may be necessary. Typically chapters 1 thru 3 are standardized in the contents they contain. However subsequent chapters vary in title and contents depending on the research being conducted.

### 8.8.4. Appendices

The appendices of a dissertation are used to provide supporting materials to the work. There is no set number of appendices, nor is there a common structure. Related to structure, appendices are usually ordered in the manner in which they are referenced in the body of the material (and, indeed, all appendices should be referenced in the text body that occurs in the chapters). Some examples of items that might be included in the appendix of a dissertation include:

- IRB or other approval documents that establish the ability to conduct the research or conduct it in a legal manor.
- Tests, surveys, or other instruments used in the study (if not copyrighted).
- Examples of code, programs or images used in the study.
- Transcripts of interviews, focus groups or other qualitative data.
- Raw quantitative data gathered during the study.

**NOTE:** With anything included in the dissertation, the writer must insure that they maintain anonymity (where applicable) and do not break copyright agreements (for example, most tests are copyrighted).

With all of these items, the goal is to provide enough detail in the dissertation that someone else could take the dissertation and replicate it.
SECTION 9.0. CERTIFICATIONS, PUBLICATIONS & INTEGRITY

The following sections provide information about certifications (FERPA, IRB, CITI, etc.) and resources available at Purdue. Information about research integrity, plagiarism and copyrights conclude this section of the handbook.

9.1. Certifications & Approvals

To be able access student information and to conduct research at Purdue University requires that faculty and students alike be certified in specific ways. Accessing student information requires FERPA certification. To conduct research requires CITI certification and IRB approval (when human subjects are involved). The following sections provide more information about these items.

9.1.1. Family Educational Rights and Privacy Act (FERPA)

To be able to access student information via Purdue’s various computer systems (such as myPurdue), faculty and students must be aware of certain legal issues associated with such data. FERPA protects and makes confidential student information beyond basic “directory information” about the student.

NOTE: Purdue University’s official FERPA policy is available here in Policy VIII.A.4: [http://www.purdue.edu/policies/records/viiia4.html](http://www.purdue.edu/policies/records/viiia4.html).

Purdue University requires that faculty and students who have a justifiable need to access student information be trained and certified. Faculty and students can become FERPA certified by accessing: [http://www2.itap.purdue.edu/SSTA/certifications/select.cfm](http://www2.itap.purdue.edu/SSTA/certifications/select.cfm).

9.1.2. Collaborative Institutional Training Initiative (CITI) Certification

The CITI Program is a subscription service providing research ethics education to all members of the research community. Purdue University uses this system to certify faculty and graduate students to conduct research. Of particular importance, researchers involved in the use of human subjects are required to complete the CITI web-based education program in order to be certified as eligible to engage in human subject research at Purdue University. All researchers on an IRB protocol must complete the CITI training before the IRB protocol will be approved. To become CITI certified, faculty and students should create an account at [https://www.citiprogram.org/](https://www.citiprogram.org/) and then go through the required training modules. Graduate students who serve as collaborators on research are also required to pass CITI certification.

9.1.3. Institutional Review Board (IRB) Approval

The IRB is a unit of the Human Research Protection Program (HRPP), which is housed within the Office of Research Administration (ORA), located in room 300 Hovde Hall.
NOTE: The IRB is an extension of the Office of the Vice President for Research (http://www.purdue.edu/research/vpr). Faculty and graduate researchers should become familiar with the wealth of information available on the VPR’s web site.

The IRB website provides detailed steps, forms, and example IRB proposals for all Purdue University faculty and students conducting human subjects research. Researchers need to obtain permission to conduct any studies at Purdue University by submitting IRB proposals and completing certain workshops and online training protocols (see CITI Certification above).

9.2. Resources

The following sections acknowledge important resources provided by various units across campus.


9.2.1. Research Oversight

The Office of the Vice President for Research (VPR) provides much information for faculty and students concerning issues pertaining to research. The VPR provides research oversight concerning Export Control (transport of commodities, software, technical data and certain other information to foreign countries), use of controlled substances for research purposes, use of radiation/lasers, use of biologically hazardous materials, use of animals as well as research involving humans. Faculty and students should be aware of the information available, particular if their research includes any of these or if they are traveling abroad (http://www.purdue.edu/research/research-compliance/export-control/overview.php).

9.2.2. Responsible Conduct of Research (RCR)

The RCR is a joint program between the Graduate School and the Office for the Vice President for Research. This program provides workshops, online training and tutorials, as well as assists in setting policy relative to the conduct of research at Purdue University. More information about the RCR is available at: http://www.purdue.edu/GRADSCCHOOL/research/rcr/index.html.

9.2.3. Purdue University Psychometric Instruction/Investigation Laboratory (PUPIL)

Purdue University Psychometric Instruction/Investigation Laboratory (PUPIL)
Consulting Service, located in BRNG 3157 (phone: 496-3233), is available to respond to and provide resources for questions involving measurement/assessment, psychometrics, and educational and behavioral sciences empirical research. Their web site is located at: http://www.purdue.edu/cie/learning/global/pupil.html.

9.2.4. Statistical Consulting Service (SCS)

The Department of Statistics provides statistical software and design consulting services for the University community – free of charge. The Statistical Consulting Service can help with statistical software problems and data analysis issues. Statistical Software Consulting provides assistance with the set up and running of a wide variety of statistical computing programs, including SAS, SPSS, Minitab and S-Plus. Software consulting is available in MATH G175 on a drop-in basis. Experimental Design and Data Analysis Consulting is available during the Fall, Spring and Summer semesters. Services include assistance with all phases of research projects: proposal preparation, design of studies, survey design, data input strategies, data import/export, analysis of data, interpretation of results, presentation of results, and other statistics or probability problems. More information is available at: http://www.stat.purdue.edu/scs/.

9.2.5. Center for Instructional Excellence (CIE)

The CIE provides valuable teaching resources (and teaching scholarship resources) to faculty. Graduate student TAs can obtain various certificates by completing a series of free workshops and seminars. The certificates include: Graduate Teaching Certificate (GTC), Graduate Teacher Certificate Alternative, Advanced Graduate Teacher Certificate (AGTC), Preparing Future Faculty Program (PFFP), and the Graduate Teacher Technology Certificate (GT2C). In addition, the website provides teaching tips, teaching consultation, and information about instructional data processing (e.g., test scoring and page scanning services). More information is available at: http://www.cie.purdue.edu/.

9.2.6. Sponsored Programs Services (SPS)

SPS assists Purdue's faculty, staff, and students in securing and managing sponsored program support, and in delivering maximum public benefit from sponsored projects. SPS manages the process of proposal submission, award management, reporting and various contracts that may result from a sponsored award. For more information about SPS and their services, see http://www.purdue.edu/spc/.

9.2.7. Discovery Park

Discovery Park, located adjacent to campus, is a collection of large-scale centers that lead Purdue’s interdisciplinary research efforts. Some of these centers include Bindley Bioscience Center, Birck Nanotechnology Center and Burton D. Morgan Center for Entrepreneurship. There are various ways in which graduate faculty can engage Discovery Park. For more information, see http://www.purdue.edu/dp/.

9.2.8. Purdue Research Foundation (PRF)

PRF is a nonprofit foundation that 1) manages gifts, bequests and endowments; 2) makes funding available to faculty, staff and students to aid in scientific investigation, research or educational studies; 3) acquires, constructs and improves Purdue’s facilities,
grounds and equipment; and 4) manages intellectual property developed at Purdue. More information about PRF is available at: [http://www.prf.org/](http://www.prf.org/).

### 9.2.8.1. PRF Research Parks

The Purdue Research Parks are the result of Purdue University’s commitment to spur economic growth in Indiana’s high-tech sector. Under development since the late ‘90s by the Purdue Research Foundation, a private, nonprofit foundation created to assist Purdue, the parks are focused on companies operating in the arenas of life sciences, homeland security, engineering, advanced manufacturing and information technology. More information about the PRF Research Parks is available at: [http://www.purduepark.com/about/](http://www.purduepark.com/about/).

### 9.2.8.2. Office of Technology Commercialization (OTC)

The Purdue Research Foundation’s Office of Technology Commercialization (OTC) operates one of the most comprehensive technology transfer programs among leading research universities in the United States. Services provided by this office support the economic development initiatives of Purdue University and benefit the university's academic activities.

Purdue’s intellectual property is an asset that Purdue strives hard to protect, market and license. OTC works hand-in-hand with Purdue faculty-, staff- and student-entrepreneurs to provide the resources needed to better understand Purdue policies related to intellectual property and the processes whereby this intellectual property (patents, copyright, trademarks, and tangible research property) can become an actual product or service. To ensure the long-term success of the innovations, OTC takes the process one step further – at times – and help Purdue inventors form startup companies complete with investor support and qualified management teams. More information about the OTC is available at: [https://www.prf.org/otc/](https://www.prf.org/otc/).

**NOTE:** All faculty and students should be familiar with Purdue University’s policy on intellectual property. See Purdue University’s Policy VIII.4.1, Intellectual Property at: [http://www.purdue.edu/policies/documents/VIII_000.pdf](http://www.purdue.edu/policies/documents/VIII_000.pdf).

### 9.3. Integrity

Purdue University has a tradition of ethical conduct spanning its history. As a land-grant institution, Purdue demonstrates responsiveness to its constituencies and extends to them access to our knowledge resources. We nurture relationships with other partners in education who support our vision or join us to foster common interests. We integrate our mission with our responsibilities. We contribute our knowledge resources impartially in serving our public purposes. As faculty, students, staff, and administrators, we are a community of dedicated learners, scholars, professionals, and practitioners - all contributing our talents to uphold our standards, and improve ourselves and the broader community in which we live and work. Our responsibilities and obligations toward the
advancement of learning, discovery, and engagement in the University and in Indiana extend to our nation and the world. Purdue’s statement of integrity is meant to provide an overarching declaration that informs specific policies and procedures regarding conduct, enforcement, and accountability. Such policies and procedures either exist in official University documents or will be developed as necessary.

NOTE: Purdue’s Statement of Integrity is available at: http://www.purdue.edu/Purdue/about/integrity_statement.html

9.3.1. **Plagiarism, Falsification, and Fabrication**

Purdue University maintains the highest academic and ethical standards research conducted by faculty and graduate students. It is important to note that the university sees the acts of plagiarism, falsification and fabrication as equal as acknowledged by the following university policy on research misconduct:

"Research misconduct" shall mean, for the purposes of this policy, fabrication, falsification, plagiarism, or other practices that seriously deviate from those that are commonly accepted within the scientific and academic community for proposing, conducting, or reporting research. It does not include honest error or honest differences in interpretations or judgments of data (Excerpt from the Purdue University Policy on Research Misconduct (VIII.3.1)).

9.3.1.1. **Plagiarism**

Plagiarism is serious violation of research conduct and every researcher, faculty and graduate student needs to be conscious of what it is, and how to avoid it. Plagiarism is to steal or pass off the words, ideas, or intellectual product of another as one’s own. It is essentially literary theft as it regards works of a written nature. Plagiarism is typically defined as the use of four or more adjacent words from a specific source.

To avoid plagiarism, you must give credit whenever you use:

- Another person’s idea, opinion, or theory;
- Any facts, statistics, graphs, drawings—any pieces of information—that are not common knowledge;
- Quotations of another person’s actual spoken or written words; or
- Paraphrase of another person’s spoken or written words.

9.3.1.2. **Strategies for Avoiding Plagiarism**

The following are some general strategies to avoid unintended plagiarism:

- Put in quotations everything that comes directly from the text, especially when taking notes.
- Paraphrase, but be sure you are not just rearranging or replacing a few words (which is conscious plagiarism). Instead, read over what you want to paraphrase carefully; cover up the text with your hand, or close the original
source so you can’t see any of it (and so aren’t tempted to use the text as a “guide”). Write out the idea in your own words without peeking.

- Check your paraphrase against the original text to be sure you have not accidentally used the same phrases or words, and that the information is accurate.

9.3.1.3. Guidelines for Quoting and Citing

The following are some guidelines that can be used for determining when to quote and when to cite material from other sources:

- If paraphrasing or writing about the ideas presented by another, citation is necessary (Smith, 2008).
- If using four or more words (even with “permission to use”), quotation and citation is necessary. Quotations over 40 words long should be “blockquoted” as per APA format specifications.
- All quotations require a page number following the quotation or integrated into the citation.
- If you are in doubt how to give credit, quote and cite the source.

9.3.2. Self-checking for Plagiarism

To assist Purdue faculty and students, the Graduate School, in partnership with the Office of the Vice President for Research, has initiated this voluntary self check service called iThenticate. The software checks submitted documents against thousands of articles that are published in journals and conference proceedings as well as text that appears on the Web. A similarity report is generated that highlights excerpts in the submitted document that match similar text in documents found in print and on the Web. Similarity reports can be helpful in detecting occurrences of inadvertent replication and neglect in referencing.

9.3.2.1. Rules Governing Usage

iThenticate is expressly for use as a tool for checking documents before submission to committees, journals, publishers, and archives, to help students and faculty prevent incidences of unintended plagiarism. The service is free for Purdue faculty and is only for individual use.

Use of the service by students is limited to individual work authored or co-authored by the student for the purpose of screening for potential plagiarism violations prior to submission. The screening service is not to be used for checking the work of others; screening articles of any kind previously submitted for publication; or screening documents of any kind previously submitted for deposit with the Graduate School, for review by an academic committee, or for archiving within the University.

Since the report generated by iThenticate only provides citations of language similarity, judgment on the part of the student is often necessary as to whether the submitted text is substantively different from similar text found in the literature. Students are encouraged
to seek assistance from their advisors and to consult the Graduate School resources—

9.3.2.2. Procedure for iThenticate

It is the goal of the university to grant all faculty at Purdue the ability to use the
iThenticate system. Students do not have direct access to the system. For students to gain
access to the system, they must contact a faculty member who has access. However
faculty can process documents on behalf of students and then provide the results.

Most Polytechnic faculty have access to the iThenticate system. If you have a
document you would like to have analyzed, contact your advisor and/or chair and she or
he can submit it on your behalf, and provide the results to you. You may also request that
the Polytechnic Thesis Format Advisor process your document as well. Please note that
as part of the Thesis Format Advising Process, all graduate students will have their thesis
analyzed in the iThenticate system.

NOTE: The iThenticate system accepts the following file formats:
Microsoft Word, searchable pdf, LaTex, postscript, and plain text.
Scanned documents converted to pdf or encapsulated in Word or LaTex
are not acceptable. Also note that you should delete all images from your
file before submitting it for processing (so as to reduce file size).

9.3.3. Copyright Issues with Figures

Figures and images included in a publication can pose significant issues for
authors. Generally, any figure that is directly from another source, such as a journal,
book, or other publication (including web publications) are copyrighted. Including them
within one’s publication requires more than just a citation if used directly from the
source. If you desire to use an image from another publication or from an online source,
the safest course of action is to secure a release to do so. Otherwise, it could be classified
as copyright infringement. A secondary method, albeit in certain cases it could still be
considered copyright infringement, is to redraw the image. However, in many cases,
redrawing or recreating the image is not enough to ensure it is still not a copyright
infringement.

A release to use an image can vary from a specific legal document to a simple
email. The key element of a release is that the “copyright holder” gives you permission to
use the image for your purposes. Yet, determining who the copyright holder is can
sometimes be quite difficult. And, often authors do not fully understand what rights they
have.

If you want to use an image, the first course of action is to email the author of the
source from which the image is being taken. A release from an author needs to include
two things:

5. That the author has the right to grant use of the image.
6. That he or she gives permission for the image to be used for your specific purposes.

It is always a good idea, even if an author gives permission, to follow up with the publisher of the source from which the image is taken and ensure a release is not also needed from the publisher.

As with issues of plagiarism, copyright infringement issues resulting from the illegal use of images is a serious matter. The author should do everything in his or her power to ensure the legitimacy of the use of materials in his or her publications. It is safer to not include an image if you cannot secure appropriate permissions than run the risk of copyright infringement.
SECTION 10.0. POST-DISSERTATION ACTIVITIES

The following section outlines the specific tasks and activities that occur once the student has executed and documented her or his dissertation.

10.1. Appointment of the Examining Committee & Scheduling the Final Oral Examination

The major professor and student are jointly responsible for finding a common date, time, and period when all final examination committee members can meet for the final examination and this must occur within the deadlines established by the Graduate School. The graduate student is expected to take initiative to begin this procedure in conjunction with the availability of the chair and committee. Typically the Graduate Coordinator in the Purdue Polytechnic Institute will find appropriate facilities for the meeting. The date, time, period and facilities for the meeting are to be transmitted to the Purdue Polytechnic Institute Graduate Studies Office by the student. To establish the committee, date and time for the final oral examination, students file the GS Form 8 (Request for Appointment of Examining Committee) online in myPurdue’s Plan of Study Generator (https://mypurdue.purdue.edu). This form is required to be submitted two weeks in advance of the final defense.

NOTE: At least three academic sessions devoted to research and writing must elapse between the preliminary and final Ph.D. examinations. For example, if the preliminary examination is completed in spring semester 2010, the earliest a student can defend and graduate is spring semester 2011. Note that summer counts as an academic session so long as the student registers for research credits.

Following the notice of final examination date, the Graduate Coordinator in the Purdue Polytechnic Institute will schedule an appropriate meeting room (equipment other than standard equipment offered by Purdue is the responsibility of the student to arrange).

The day prior to the final examination date, the Graduate Coordinator in the Purdue Polytechnic Institute will forward a file of relevant student records, GEC evaluation forms, and candidate audit forms to the major professor. Following the oral defense, it is the major professor’s responsibility to obtain all required committee member signatures on the electronic GS Form 7 (Report of Master’s Examining Committee) in advance of the established deadlines.

10.2. Declaring Graduation Candidacy

In the semester that a student intends on defending dissertation and graduate, she or he must declare graduation candidacy as they register for classes. A Form 23 Registration Form is used to declare graduation candidacy (see Appendix I). Online self-registration is not permitted to declare candidacy. Take the completed Form 23 to the Graduate Coordinator in the Purdue Polytechnic Institute, Room 150, Knoy Hall for processing prior to the posted deadline.
10.3. Completing the TECH 699 Requirement

At the conclusion of the final oral examination, the major professor and each member of the examining committee will sign the electronic Graduate School Form 7, Report of the Examining Committee form.

NOTE: The Graduate School permits NO EXCEPTIONS to its published deadlines for graduation.

If any problems or deficiencies in the report are indicated by the examining committee, these must be corrected before the dissertation will be approved by each committee member. In order for graduation to occur during any semester, completion of all required edits/corrections must occur and be approved before the established deadlines.

The last step involves submitting a copy of the approved dissertation to each of the following: university, college, and graduate committee. Sections 10.5, 10.6 and 10.7 cover each of these in detail.

10.4. Formatting Review for Dissertations

Students are required to meet with the Polytechnic Thesis Format Advisor at least two weeks before they defend their dissertation. The last date to meet with the Polytechnic Thesis Advisor for a dissertation formatting appointment is two weeks prior to the last day to defend the dissertations. A thesis formatting appointment is mandatory. If you do not meet with the Polytechnic Thesis Advisor and get the appropriate approval signature on the Form 9 (see Appendix L), you will not graduate on time.

The Thesis Formatting Review requires the following steps:

1. Scheduling the meeting via the Polytechnic Graduate Coordinator.
2. Submitting an electronic copy of the dissertation via email to the Polytechnic Thesis Advisor two days prior to the review meeting for submission to the iThenticate plagiarism checking software.
3. Attending the dissertation review meeting.

10.4.1. Formatting

For theses, the Polytechnic has adopted the APA, parenthetical citation format as implemented by the university.

10.4.2. Formatting Your Dissertation

TECH 646 (a required course for most students) assists the student in developing their proposal and therefore covers how to format the thesis or dissertation. If you are not required to take that course, the following provides some guidelines you should follow to ensure your thesis or dissertation are acceptably formatted.

- Foremost, students should use the University Microsoft Word Thesis template which is available on the graduate school's web site http://www.purdue.edu/gradschool/research/thesis/templates.html
This template has styles included within it to make formatting less cumbersome. The Graduate School also holds seminars on use of the template and following the formatting requirements.

**NOTE:** If your thesis or directed project will include many formulas, you may want to use Latex rather than Microsoft Word. If you use Latex, use the Latex template that is located on the Purdue Polytechnic Institute web site (NOT the one on the university Graduate School web page).

Note that there are a few things that the template will not do. Even when using the thesis template, students must:

1. Ensure that they do not use vertical lines in tables.
2. Properly format captions for tables and figures (including proper italics for each).
3. Ensure proper tabs for each paragraph and proper hanging indents on references.

- Other specifics of the format can be seen in an example document that can be used as a guide for formatting theses and dissertations ([https://polytechnic.purdue.edu/sites/default/files/files/mohler_dissertation.pdf](https://polytechnic.purdue.edu/sites/default/files/files/mohler_dissertation.pdf))

### 10.4.3. Scheduling Formatting Appointment

To make a thesis formatting appointment with the Polytechnic Thesis Advisor you will need to email the Polytechnic Graduate Coordinator. Once your thesis has been approved, you may schedule your defense. It is recommended that you make your appointment early.

### 10.4.4. Providing an iThenticate Copy

Two days prior to your scheduled Thesis Advising appointment, you should email the Polytechnic Thesis format Advisor a complete copy of your thesis as a single Word or PDF document.

**NOTE:** If your document contains a large number of images, the images should be deleted from the file before providing it to the Thesis Advisor.

After receiving your document, the Polytechnic Thesis Advisor will submit your electronic document to the *iThenticate* application to verify there is no plagiarism within the document (see Section 9.3.2). At the Thesis Format Advising appointment you will be able to review the results of the plagiarism check as well as receive the electronic results.

**NOTE:** You should bring a USB drive or other storage media with you to the Thesis Advising appointment so that you may receive a copy of the *iThenticate* results.

### 10.4.5. Attending the Formatting Appointment

When a student goes to the format meeting, she or he should bring:
1. A 100% complete, unbound printed copy of the thesis.
3. At least one copy of the GS Form 9 for Polytechnic Thesis Advisor to sign.

NOTE: It is advised that students have multiple copies of the GS Form 9 for the committee to sign (see section 10.7). Only one copy is required (for university deposit, see section 10.5).

10.4.6. Dissertation Pre-review

If a student is in doubt whether their document is formatted correctly, they may email a sample from their thesis to the Polytechnic Thesis Format Advisor for review and comment. “Pre-review” meetings are also a possibility but must occur before the sixth (6th) week of each semester.

10.5. The Final Oral Examination

Once the format review meeting is completed, the student prepares for their final oral examination (dissertation defense). At most final oral examination meetings, the student conducts a 30 to 45 minute presentation and then the faculty committee is allowed to ask questions. If time permits, guests in the audience may also ask questions, but this is at the discretion of the chair. Students should discuss the final oral examination meeting with her or his chair in advance to verify the method by which the chair will conduct the meeting.

NOTE: The proposal defense and the final defense CANNOT occur in the same semester. The final defense meeting must be scheduled two (2) weeks in advance of the date of the defense. The final dissertation must also be provided to the committee two (2) weeks in advance of the date of the final defense.

In addition to presenting and answering questions relative to the direct project or thesis, the student will need to prepare and bring to the final defense the GS Form 9 and GS Form 32 (see Appendix N). It is advised that students have multiple copies of the GS Form 9 for the committee to sign (see section 10.7). Only one copy is required (for university deposit; see section 10.5).

10.6. University Deposit of the Dissertation

Following successful defense of a thesis, students must deposit their dissertation with the Graduate School. Information about the university deposit meeting may be found at: http://www.purdue.edu/gradschool/research/thesis/appointment.html. The deposit meeting requires students provide an electronic copy of their dissertations, as well as the following completed and signed forms:

- GS Form 9: Thesis Acceptance (see Appendix L)
- GS Form 9 ETD: Electronic Thesis Deposit (see Appendix M)
• GS Form 32: Thesis/Dissertation Agreement, Publication Delay, and Certification/Disclaimer (see Appendix N)

**NOTE:** The graduate chair or the student may desire to hold the thesis in confidentiality status for a certain period of time. Both graduate chair and student must agree on confidentiality status. See the GS Form 32 (Appendix N).

To schedule a final deposit appointment, access:

**NOTE:** The Graduate School provides supplementary information about Thesis/Dissertation formatting (http://www.purdue.edu/gradschool/research/thesis/templates.html).

10.7. **College Deposit of the Dissertation**

The Purdue Polytechnic Institute no longer requires a printed and bound copy of the dissertation. The College now requires a digital copy for the Purdue Polytechnic Institute be submitted electronically to the Purdue e-Pubs site (http://docs.lib.purdue.edu/tech/).

10.7.1. **Final Signatures on GS Form 9**

The final signature on the GS Form 9 (see Appendix L) will be the Polytechnic Associate Dean of Academic Affairs. Please see Polytechnic Graduate Program Coordinator in Knoy 150 to obtain the appropriate signature on the Form 9. After depositing your thesis electronically with the Graduate School, you will then submit the college copy electronically at the Purdue Polytechnic Institute Purdue Libraries e-Pubs site.

10.7.2. **For Assistance with Submitting to the Purdue e-Pubs Site**

A help document for submitting to the Purdue University e-Pubs site is located at: https://polytechnic.purdue.edu/sites/default/files/files/epubsInst.pdf.

10.8. **Copies of Final Dissertation for Graduate Committee**

After depositing your dissertation with the e-Pub site, it is common practice to provide a copy to each of your examination committee members. Most faculty prefer a traditionally printed and bound copy of the project, whereas others might prefer a digital/electronic copy. Confer with your chair to determine which he or she prefers. Typically whatever is done for the chair is also done for the rest of the committee. If your chair requests a bound copy, The Purdue University Boiler Copy Center can assist you. Typically faculty request a “case (book) bound” copy. More information about this may be found at: http://www.purdue.edu/printingservices/.
10.9. **Additional Requirements for Graduation**
Additional items that Ph.D. students must complete for graduation include:

- *Graduate School Survey.* All students must complete the Graduate School Exit Survey if they wish to graduate. Students typically receive an email and/or notification in the *myPurdue* system that details how they complete this requirement.
- *Optional Copyright Fee.* If students would like their dissertation to be officially registered with the U.S. Copyright Office, they may pay an additional $65 fee.

10.10. **Participating in Commencement**
All graduating students are encouraged to participate in the university’s commencement ceremonies. This is a time justifiably used to reflect on your accomplishments with pride and to share in the success of others, including the faculty, as well. Information pertaining to commencement (dates, attire, etc.) is available via: [http://www.purdue.edu/registrar/](http://www.purdue.edu/registrar/).

10.11. **Hooding Ph.D. Candidates**
At Purdue University, it is customary for the chair of the Ph.D. candidate’s committee to put the doctoral hood on the candidate at the graduation ceremony. Ph.D. candidates should talk to the chair about their expectations. In the case of a committee with co-chairs, the student should select one of the chairs to serve in this capacity. In the event that the chair cannot attend the ceremony, the Dean of the Graduate School will hood the candidate.
SECTION 11.0. OVERALL DOCTORAL DEGREE PROCEDURAL CHECKLIST

To help students progress through their degree requirements, the following checklist will help map a path through the Purdue Polytechnic Institute’s Doctor of Philosophy program. Specific and official deadlines are announced each semester, posted on the Polytechnic Graduate webpage and are also available from the Polytechnic Graduate Studies Office. Table 11.1 shows a helpful timeline chart for the Ph.D.

11.1. First Semester
1. If the transcripts submitted with the application for admission were not complete, arrange to have two (2) copies of the final transcript showing receipt of degrees sent to the Associate Dean for Academic Affairs, Purdue Polytechnic Institute, 401 N. Grant St., Purdue University, West Lafayette, IN 47907-2021.

With the help of the major professor:
2. Discuss your career and educational objectives and, within the framework of the Purdue Polytechnic Institute doctoral degree and draft a preliminary plan of study. Review the optional Areas of Concentration as you work.
3. Select a doctoral committee consisting of your major professor and at least two graduate faculty members. At least two of your committee members must be regular, Purdue Polytechnic Institute graduate faculty. You may select one or more additional faculty to serve on your committee and in some cases this is clearly advantageous (see section 4.3 and 4.4 of this handbook).
4. Discuss the preliminary plan of study with each of the members of the advisory committee (see section 5.0 of this handbook).
5. Using the Electronic Plan of Study (EPOS) system, submit your draft plan of study to your committee members and the Polytechnic Graduate Studies Office (see section 5.0 of this handbook).
6. Refine the plan of study, if needed, based on the committee’s suggestions.
7. Using the Electronic Plan of Study (EPOS) system, submit your final plan of study to your committee members and the Polytechnic Graduate Studies Office (see Section 5.0 of this handbook).
8. Identify a tentative research area.
9. Register for classes for the next semester following approval of the plan of study (see Section 4.5 of this handbook).

11.2. Succeeding Semesters
1. Register for classes as appropriate for the next semester (see section 4.5 of this handbook).
2. Register for TECH 646 (during your third or fourth semester) and begin planning for your dissertation research (see section 8.4 of this handbook).
## Polytechnic Ph.D. Timetable

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<th>Semester</th>
<th>End of the 1st</th>
<th>End of the 2nd</th>
<th>Third Semester (April or November)</th>
<th>Next to Last (or Last) Semester of Coursework</th>
<th>Last Semester (or Semester Following Completion) of Coursework</th>
<th>At least three academic sessions devoted to research and writing must elapse between the preliminary and final Ph.D. examinations *</th>
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<td><strong>Coursework</strong></td>
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<td>- Tech 646</td>
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<td>- Complete tech 699 (1-3 cr.)</td>
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<td>- Complete remaining tech 699 credits (14 - 12 cr.)</td>
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<td><strong>Advisor/ Committee</strong></td>
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<td>- Work with advisor on research area and possible committee members</td>
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<td>- Establish committee (3 people)</td>
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<td>- Complete Qualifying Examination</td>
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<td>- Complete Preliminary Examination</td>
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<td>- Establish committee (4 people)</td>
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<td>- Schedule/attend dissertation proposal defense</td>
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<td>- Schedule/attend dissertation defense meeting</td>
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<td><strong>Electronic Plan of Study</strong></td>
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<td>- Create/ File draft EPOS</td>
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<td>- File Official EPOS</td>
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<td>- File EPOS Changes (as necessary)</td>
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<td><strong>Dissertation</strong></td>
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<td>- Dissertation Proposal Defense (Chapters 1-3 complete)</td>
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<td>- Polytechnic Thesis Advising Appl.</td>
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<td>- Final Dissertation Defense</td>
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<td>- GS Thesis Deposit Appt.</td>
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<td>- Polytechnic Thesis Deposit (e-Pubs)</td>
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<td>- Polytechnic Publication requirement</td>
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* Summer counts as an academic session (e.e., if preliminary examination is completed in May 2016, then earliest final defense May, 2017)
In the final semester of required coursework, schedule your preliminary oral examination (see section 5.3.1 of this handbook). Three committee members are required for the preliminary examination. Students must submit a Request for Examining Committee (GS Form 8) no less than two weeks prior to the exam date (see myPurdue for form submission).

Verify your candidate status after passing your preliminary oral examination.

In either your final semester of coursework or the semester immediately following your preliminary oral examination, sign up for one (1) to (3) credits of TECH 699 to create and defend your dissertation proposal (see section 8.1 and 8.2 of this handbook).

Prepare your dissertation proposal (see section 8.5 of this handbook).

Schedule your proposal defense meeting (at least two weeks in advance of the meeting). Four committee members are required for the proposal defense. Once the committee has approved the proposal, submit the proposal to the Polytechnic Graduate Studies office with the completed Polytechnic Form 2: Acceptance of Graduate Proposal (see section 8.3).

Following approval of your proposal, sign up for appropriate amounts of TECH 699 credit each semester until completion of your dissertation research (see section 8.1, 8.2, and 10.2 of this handbook).

11.3. Final Semester

At least three academic sessions devoted to research and writing must elapse between the preliminary and final Ph.D. examinations. For example, if the preliminary examination is completed in spring semester 2010, the earliest a student can defend and graduate is spring semester 2011. Note that summer counts as an academic session so long as the student registers for research credits.

Register for your final TECH 69900 credits see section 8.1, 8.2, and 10.2 of this handbook).

Verify that any changes in your plan of study have been approved using the Change process within the electronic plan of study generator, located on myPurdue. (See section 5.0 of this handbook).

Verify with the Polytechnic Graduate Coordinator your candidate status.

Arrange the scheduling of the final oral examination at least two weeks prior to the exam date with the Polytechnic Graduate Program Coordinator. Four committee members are required for the final defense. A Request for Examining Committee (GS Form 8) must be submitted electronically no less than two weeks prior to the exam date (see section 10.1 of this handbook).

Schedule Thesis Format Advising meeting with the Polytechnic Thesis Format Advisor to occur two weeks prior to the final oral examination via the Polytechnic Graduate Coordinator (see section 10.3 of this handbook).

Schedule University deposit meeting electronically with the Graduate School (see section 10.5 of this handbook).
7. Satisfy the final oral examination requirement and make any revisions to the dissertation that are required by your committee (see section 10.4 of this handbook).

8. Submit a final copy of your dissertation to the Purdue Library e-Pubs section prior to the deadline established by the Polytechnic Graduate Studies office (see section 10.6 of this handbook).

9. Provide final copies of your dissertation to your chair and graduate committee (see section 10.7 of this handbook).
SECTION 12.0. PROCEDURES FOR REQUESTING CONTINUATION FROM AN M.S. INTO THE PH.D. IN TECHNOLOGY

Direct continuation from a master’s degree to a doctoral plan of study is a desire of many students pursuing graduate study. Many students who begin a master’s degree in the Purdue Polytechnic Institute decide that they wish to continue from their M.S. directly into the Purdue Polytechnic Institute in Ph.D. To ensure that internal “applicants” are qualified and evaluated in a manner consistent with the review of external candidates to the Ph.D. program and to follow university policy, the described policies outline the procedures for requesting continuation to the Doctor of Philosophy in Technology.

12.1 Type of Master of Science

Procedures for students in the Purdue Polytechnic Institute Master of Science (and its related concentrations) differ from those required for students in Master of Science programs in the college’s departments (specifically, AT, BCM, CIT, CGT, and IT). The following sections describe the procedures of these two types of M.S. students within the Purdue Polytechnic Institute.

It is assumed that regardless of M.S. degree being obtained students wanting to continue to a PhD obtain thesis from their respective M.S. program. Additionally, all students wanting to continue directly from an M.S. to a Ph.D. in Technology should make the decision and begin the respective process outlined below at the beginning of their candidate semester (i.e., the beginning of the semester in which they intend to graduate).

12.2 Procedure for Students Pursuing the AT, BCM, CIT, CGT or IT M.S. degrees

Students pursuing an M.S. degree in AT, BCM, CIT, CGT or IT wishing to continue in the Doctor of Philosophy program are required to apply to the doctoral program through the Graduate School’s Apply Yourself web site. Because departmental M.S. programs are different programs from the college master’s, students must apply to the Technology Ph.D. program (even though those departments are within the college).

Thus, these students must provide all requisite application materials and pay the Graduate School application fee. If the GRE was taken for admittance to the respective college departmental M.S. program, the applicant will not be required to take the GRE again. Students should provide a copy of the scores to the Polytechnic Graduate Studies office to be included in their application materials (if the scores are over three years old).

12.3 Students Pursuing the M.S. in Technology (or any of its respective concentrations)

Students who are enrolled in the Master of Science in Technology program are required to complete a Polytechnic Grad Studies Form 4, which records the student’s name, major professor, thesis title, M.S. graduation date and cumulative M.S. GPA (see Appendix O). The applicant must also include a copy of their approved M.S. thesis proposal. The Polytechnic GS Form 4 and thesis proposal is routed to the major professor and committee members for signature and positive or negative recommendation for admittance to the Ph.D. program. Finally the department head signs the Polytechnic GS Form 4 and routes it to the Polytechnic Graduate Studies office.
Once received by the Polytechnic Graduate Studies Office, the form is reunited with the applicant’s M.S. application materials. This application package is routed to the respective department’s Ph.D. review committee for acceptance or denial into the Ph.D. program. If accepted, the Polytechnic Graduate Studies office notifies the Graduate School of the student’s acceptance and matriculation into the Purdue Polytechnic Institute Ph.D. program.
APPENDIX A:

PH.D. PROGRAM PLANNING TEMPLATE

(available at
# Master's Plus Ph.D. Program Planning Template

<table>
<thead>
<tr>
<th>Degree Component</th>
<th>Minimum Hours</th>
<th>Existing Courses Taken as part of MS</th>
<th>Courses to be Taken (including a maximum of 9 grad transfer)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology Major</strong></td>
<td>21</td>
<td>(a minimum of 15 credits of new COT courses is to be taken)</td>
<td>(Independent Study – Tech 59000 or 69000 – 9 credits maximum)</td>
</tr>
<tr>
<td>- Core</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- IT 50700 Measurement and Evaluation in Industry and Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- MET 52700 Technology from a Global Perspective</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- TECH 60100 Research Seminar in Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- TECH 64600 Analysis of Research in Industry and Technology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Focus Courses (TECH or any COT department prefixed course, others only with committee approval)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cognate</strong></td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Discovery Foundations</strong></td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Multivariate statistics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Qualitative &amp; alternative methodologies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Experimental design &amp; Research methodology</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dissertation/Research</strong></td>
<td>15 min – 30 max</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>Maximum 30</td>
<td>Minimum 90 (including those in Existing Courses column)</td>
</tr>
<tr>
<td><strong>Other Coursework</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Suggestions for Use:**

*If a student took TECH 64600 as part of their M.S., they should substitute another research, qualitative or quantitative research methods course*

1. Have student enter each of their master’s degree courses in the appropriate row of the Existing Courses column.
2. Have student enter each of their already completed courses beyond the master’s degree from Purdue or another university in the appropriate row of the Existing Courses column (a maximum of 9 hours is permitted).
3. Enter the most appropriate courses that will build the desired competencies in the appropriate rows of the Courses to be Taken column. Any 500-level or 600-level courses must be followed by 500- and 600-level courses.
4. Adjust the coursework until all the hour minimums are met or exceeded.
5. Confirm that the Technology Major and Cognate degree components include a minimum of 12 semester credit hours of 500-level courses.
6. Confirm that no more than 9 hours of Independent Study (Tech 59000 or 69000) is included on the plan of study.
7. Confirm that the plan of study includes at least 15 hours of new Ph.D. program coursework to be taken in the Technology Major.
8. Research (TECH 69900) credits not part of courses listed in POS but count towards total hour requirement.
## Direct to Ph.D. Program Planning Template

<table>
<thead>
<tr>
<th>Degree Component</th>
<th>Minimum Hours</th>
<th>Courses to Be Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Technology Major</strong></td>
<td>30</td>
<td>(Independent Study – Tech 59000 or 69000 – 9 credits maximum)</td>
</tr>
<tr>
<td>* Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o IT 50700 Measurement and Evaluation in Industry and Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o MET 52700 Technology from a Global Perspective</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o TECH 60100 Research Seminar in Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>o TECH 64600 Analysis of Research in Industry and Technology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Focus Courses (TECH or any COT department defined course, others only with committee approval)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cognate</strong></td>
<td>27</td>
<td></td>
</tr>
<tr>
<td><strong>Discovery Foundations</strong></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Multivariate statistics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Qualitative &amp; alternative methodologies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>* Experimental design &amp; Research methodology</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dissertation/Research</strong></td>
<td>15 min – 30 max</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>Minimum 90</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(including those in Existing Courses column)</td>
</tr>
</tbody>
</table>

### Other Coursework

---

**Suggestions for Use:**

1. Have student enter each of their already completed courses beyond the bachelor degree from Purchase or another university in the appropriate row (a maximum of 9 hours is permitted).
2. Enter the most appropriate courses that will build the desired competencies in the appropriate rows of the ‘Courses to be Taken column. Any 300-level or 400-level courses must be followed by 500- and 600-level courses.
3. Adjust the coursework until all the hour minimums are met or exceeded.
4. Confirm that the Technology Major and Cognate degree components include a minimum of 12 semester credit hours of 600-level courses.
5. Confirm that no more than 9 hours of Independent Study (Tech 59000 or 69000) is included on the plan of study.
6. Confirm that the plan of study includes at least 15 hours of new Ph.D. program coursework to be taken in the Technology Major.
7. Research (TECH 69900) credits not part of courses listed in POS but count towards total hour requirement.
APPENDIX B:

REQUEST FOR REDUCED COURSE LOAD

(available at http://www.iss.purdue.edu/Resources/Docs/Immigration/RCLForm.pdf)
Reduced Course Load (RCL) Request Form

**Do not register for a course load (or drop a course) that will place you in RCL status without first obtaining DSO (Designated School Official) permission. RCL approval may be obtained by completing Sections I & II of this form and then meeting with a DSO in the Office of International Students and Scholars (ISS).**

RCL Definition:
- Less than 12 credit hours for international undergraduate students
- Less than 16 credit hours for international graduate and professional students without a graduate staff appointment or employment-based fellowship
- Less than 8 credit hours for international graduate and professional students with a graduate staff appointment or employment-based fellowship

Exception: Students who engage in full-time Curricular Practical Training (CPT), full-time Optional Practical Training (OPT) or academic training (AT) are not required to be registered full-time and do not need to complete this form.

SECTION I: Student Use Only
Complete items 1 - 5 below and then submit this form to your Academic Advisor (undergraduate students) or Chair of Departmental Graduate Committee (graduate/professional students) to complete Section II.

1. Name: ______________________________

2. PUID: _____________________________ (10 digit PUID Number)

3. Semester for which RCL is Requested: ___Spring ___Summer ___Fall Year 20___

4. Reason for RCL Request:
   [ ] Medical (must include a letter from a medical professional recommending reduced course load)
   [ ] Improper course placement
   [ ] Initial English language difficulties
   [ ] Initial unfamiliarity with American teaching methods
   [ ] Last semester of a student's academic program (Graduate level students only who will complete all degree requirements during the requested RCL semester need to apply. Undergraduate students can enroll part-time their last semester and do not need to process an RCL form.)

5. Student Explanation (attach additional typed sheet, if needed):

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Section II: Undergraduate Academic Advisor or Chair of Departmental Graduate Committee.
Please mark accordingly: ___ Undergraduate ___ Graduate (Non-Thesis) ___ Graduate (Thesis)

Recommendation: ___ Recommend approval ___ Do not recommend approval

REASON: (Provide justification for decision based upon a reason listed above in Section I, #4)

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Recommended by: (Printed Name)

Signature: _____________________________ Date: _____________________________

Title: _____________________________ Dept. _____________________________

**Students must bring this form to ISS for approval before taking a reduced course load (RCL).**

2/8/2010
APPENDIX C:

GS FORM 12: REQUEST FOR RESEARCH IN ABSENTIA

(available via the Electronic Plan of Study Generator on myPurdue)
PURDUE UNIVERSITY
GRADUATE SCHOOL
Request for Ph.D. Degree Candidate Research in Absentia
(See registration procedures on reverse side.)

Name of Student ...........................................  PUID No. ...........................................

Current Address ...........................................

Absence Address ...........................................

Department ............................................. Department Code ...........................................

Session Effective ........................................

1. The following items are required to petition for the absence privilege. Have you:
   a. satisfactorily completed all of the coursework on your plan of study? Yes  No
   b. passed your preliminary examinations? Yes  No
   c. made significant progress on your dissertation research topic? Yes  No

2. Give the specific title of your research project or investigative area, and describe briefly the status of your research project and the nature of the work to be done in absentia.

3. Give the name and the location of the institution or organization at which you will be located, the name of any local supervisor, and list any facilities you will be using.

4. What Purdue facilities will you be using, and how will adequate supervision be maintained by your major professor?

5. What is the expected date of completion of your dissertation? ..............................

6. What is the number of credits for which you expect to register each semester? ..............................
   *Requesting more than three credits, justification is required. (See below.)

If this request is approved, I agree to register every consecutive session (excluding summer) until the degree has been awarded, my program is terminated, or I withdraw from the University. I understand that I should check the ten-to-twelve limits of my department and that if my degree program exceeds this limitation, the department may block continuing registration. I also agree to notify the bureau of any change in my absence address. I understand and agree to the conditions set forth for the privilege of registering for research in absentia.

Signature of Student ...........................................  Date ...........................................

Approval Recommended ...........................................  Date ...........................................

Advisor ...........................................  Date ...........................................

Current Degree or Code ...........................................  Graduate Faculty Identifier ...........................................

Approval Recommended ...........................................  Date ...........................................

Head of the Graduate Program ...........................................  Date ...........................................

Graduate School Dean ...........................................

Submit original to the Graduate School not less than one month preceding the session in which absentia registration is desired.
PURDUE UNIVERSITY
GRADUATE SCHOOL

Ph.D. Degree Candidate
Research in Absentia Registration Procedures

Standard registration for research in absentia is for three credit hours. In special circumstances, students who will be devoting substantial time to research may request permission to register for additional research credits up to 18 credit hours for full-time effort and a proportional registration in the summer session. Registration requests for more than three credit hours must be approved by the dean of the Graduate School. Requests must be supported by an accompanying statement prepared by the major professor and approved by the head of the graduate program. This statement should provide information about the student’s employment status and the level of support provided for the student’s research in terms of facilities and release time. The duration of this support also should be indicated.

After approval of this request by the dean of the Graduate School, the registrar will enroll the student for research in absentia, and the bursar will produce a fee statement and supply instructions for payment. Each session thereafter (except summers) until the degree has been received, this procedure will be repeated during the advanced registration period. If a student is registering for more than three credit hours, the registration form must be approved by the Graduate School each session. The student is responsible for informing the bursar of any changes in mailing address. Late payment of fees will be subject to the normal penalty fee. Nonpayment of fees will terminate the student’s registration and cancel the absentia privilege.

Summer session registration is not required unless the student expects to receive a degree at the close of the session. Summer registration should be processed through the student’s major department, utilizing the Course Request (Registrar’s Form 23), in the same manner as for a regular course.

Once a student stops registering in absentia, that student cannot register for absentia for a later session. Knowing this, if a student still wishes to stop registering for absentia credits, the student should contact the major professor to request that a Course Request (Registrar’s Form 23) be completed. The 699A credits can be “dropped” by providing a note in the comment box that the absentia registration should be terminated. The Course Request must be signed by the student, the major professor, and the head of the graduate program.
APPENDIX D:

HRS FORM 33F: REQUEST FOR CHANGE IN STATION

(available via http://www.purdue.edu/hr/)
REQUEST FOR Sabbatical, Research, Outside Activity Leave or Change in Duty Station

Faculty and Staff: Complete Sections 1 & 2, then sign and route the form for approval (Section 3).

Section 1: COMPLETED BY EMPLOYEE

| A. Name: | D. PERNR: |
| B. Org Unit: | E. CUL (FTE): |
| C. Cost Center: | F. Hire Date: |

(Do not include grad student employment)

G. Type of Leave:
- ☐ Research/Travel
- ☐ Change in Duty Status - States
- ☐ Other (Provide explanation in Section 2)
- ☐ Change in Duty Status - Foreign
- ☐ Sabbatical - Date of last Sabbatical
- ☐ Sabbatical - Date of proposed Sabbatical

Use Section 2 (or provide attachment) to describe the purpose and location of your proposed Sabbatical leave in accordance with Executive Memorandum No. B-11

H. Leave Compensation:
- ☐ With Pay
- ☐ With Partial Pay (CUL [FTE])
- ☐ Without Pay

I. Days Absent:
- Start Date: MM/DD/YYYY
- End Date: MM/DD/YYYY

J. Source of Salary Funding While on Leave:

<table>
<thead>
<tr>
<th>Cost Center Fund</th>
<th>Percent</th>
<th>Cost Center Fund</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 2: PURPOSE OF THIS LEAVE (Attach additional pages if necessary)

For Sabbatical Leave: I acknowledge that I have read and understand the conditions and obligations attached to the granting of sabbatical leave, as contained in Executive Memorandum No. B-11, and I acknowledge and agree that if the above request for sabbatical leave is granted, I will be contractually obligated to Purdue University to conform to the terms of said Executive Memorandum B-11. As a part of such obligations, I understand and agree that following completion of the requested sabbatical leave, I will return and will continue my service to Purdue University for at least one additional academic/financial year (specified). I further understand and agree that in the event of breach of this obligation, I will be obligated to reimburse Purdue University for all compensation (including cost of fringe benefits paid to me for my benefit by Purdue University during the period of the sabbatical leave).

Section 3: SIGNATURES

<table>
<thead>
<tr>
<th>Individual Requesting Leave:</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Head of Department:</td>
<td>Signature</td>
<td>Date</td>
</tr>
<tr>
<td>Dean or Administrative Officer:</td>
<td>Signature</td>
<td>Date</td>
</tr>
</tbody>
</table>

FOR BUSINESS OFFICE USE: Sponsored Program Services.

APPROVED
PRESIDENT’S OFFICE
Purdue University

Human Resources distributes completed copies to Business Office (provide employee copy) and HR Data Entry. Central Files retains original in employee’s personnel file.

Policies regarding absence from University duty are found at www.purdue.edu/ops/policies/pages/human_resources/human_res.html#leave
APPENDIX E:

SAMPLE PLAN OF STUDY
(available via https://mypurdue.purdue.edu)
# Graduate Plan of Study

**Status**: APPROVED  
Submitted 05/18/2005

**Student**: DOE, JOHN A.  
123456789

**Student Email**: doeji@tech.purdue.edu

**Department**: TECHNOLOGY  
TECH

**Degree Title**: MASTER OF SCIENCE : NON-THESIS  
21

**Date Degree Expected**: May 2006

**Area of Specialization**: HUMAN FACTORS  
000

**Research Area**: AVIATION HUMAN FACTORS

---

**Supplemental Notes**: Add A Supplemental Note View All Notes

<table>
<thead>
<tr>
<th>Subject</th>
<th>Type</th>
<th>Author</th>
<th>Date Added</th>
</tr>
</thead>
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<tr>
<td></td>
<td>PUBLIC</td>
<td></td>
<td>06/08/2005</td>
</tr>
<tr>
<td></td>
<td>PUBLIC</td>
<td></td>
<td>09/19/2005</td>
</tr>
</tbody>
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Items in purple are completed. / Items in green are incomplete.

Courses: ** Grades posted here are as of the end of the semester that they were taken. Late grade changes or title changes may not be reflected. If you see a discrepancy, contact the Graduate School.

<table>
<thead>
<tr>
<th>Area</th>
<th>Courses Title</th>
<th>Subj. Abbr.</th>
<th>Course No.</th>
<th>Credit Hours</th>
<th>Regis. Type</th>
<th>Grade</th>
<th>B or better</th>
<th>Transfer From</th>
<th>Date Completed To Be Completed</th>
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</thead>
<tbody>
<tr>
<td>PRIMARY</td>
<td>MEASUREMENT AND EVALUATION IN INDUSTRY</td>
<td>IT</td>
<td>50700</td>
<td>3</td>
<td>RE</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>May 2004</td>
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<tr>
<td>PRIMARY</td>
<td>QUAL &amp; PROD IND &amp; TECH</td>
<td>AT</td>
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<td>-</td>
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</tr>
<tr>
<td>PRIMARY</td>
<td>MANAG RISK OF ORG ACCI</td>
<td>AT</td>
<td>57300</td>
<td>3</td>
<td>RE</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Dec 2004</td>
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<tr>
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<td>3</td>
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<td>-</td>
<td>Aug 2005</td>
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<tr>
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<td>SOLV IND PROB APPL RES</td>
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<td>-</td>
<td>-</td>
<td>Dec 2004</td>
</tr>
<tr>
<td>PRIMARY</td>
<td>ANALYSIS OF RESEARCH IN INDUSTRY AND TEC</td>
<td>TECH</td>
<td>64600</td>
<td>3</td>
<td>RE</td>
<td>-</td>
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<tr>
<td>RELATED</td>
<td>HUMAN ERROR</td>
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<td>57200</td>
<td>3</td>
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<td>Dec 2003</td>
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<tr>
<td>RELATED</td>
<td>BIOMETRICS TECH&amp;APPLIC</td>
<td>IT</td>
<td>58100</td>
<td>3</td>
<td>RE</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>May 2004</td>
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<tr>
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<td>2</td>
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<td>-</td>
<td>-</td>
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<td>Dec 2004</td>
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<tr>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>Aug 2003</td>
</tr>
</tbody>
</table>

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**Purdue graduate course tallies:**

Purdue POS GPA: 4
Purdue Primary Area Credit Hours : 18
Purdue Related Area Credit Hours : 12
Purdue Area Not Specified Credit Hours: 0
**Language Requirement:** None

**Comments Regarding Exceptions or Requirements:** None

### Advisory Committee Information and Approval Status

<table>
<thead>
<tr>
<th>Level</th>
<th>Names of Advisory Committee Members</th>
<th>Cert</th>
<th>Faculty Identifier</th>
<th>Status</th>
<th>Department Code</th>
<th>Advisor in Area of</th>
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<tr>
<td>20</td>
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<td>Gary Bertoline</td>
<td>APPROVED by Gary Bertoline 10/20/2005 14:17:14</td>
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<tr>
<td>10</td>
<td>Graduate School Authorization</td>
<td>Patricia A. Springer</td>
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APPENDIX F:

FLOWCHART OF EPOS PROCESS
APPENDIX G:

POLYTECHNIC FORM 1: REQUEST TO SCHEDULE ORAL EXAMINATION

(more information available at
https://polytechnic.purdue.edu/sites/default/files/files/Polytechnic_Form1_v1_0.pdf)
Purdue Polytechnic Graduate Studies

Request to Schedule Oral Examination
(Must be filed 2 weeks prior to exam)

Major Advisor:
Graduate Student:
Directed Project Title:

Exam Date:
Exam Start Time:
Exam End Time:

Equipment Required (check all that apply):
- Overhead Projector
- Computer Projector
- Other (please specify at right):

Examining Committee Members:  Additional Invited Guests Requested:

Examining Committee Same as Advisory Committee?
Yes  No

Requested By:

Signature, Major Advisor

Grad Faculty Code: [Redacted]

NOTE: Please assume this request has not been received by the College of Technology Graduate Office until you receive confirmation.

CONFIRMATION: (for office use only)
Exam Date:  Exam Time:  
Room:  Equip:  
Faculty & Student Notified:  

Please type or print clearly.
APPENDIX H:

INDEPENDENT STUDY REQUEST FORM AND INSTRUCTIONS

(available at https://polytechnic.purdue.edu/sites/default/files/files/690INDEPENDENT_STUDY_AUTH.pdf)
GRADUATE INDEPENDENT STUDY AUTHORIZATION FORM
Polytechnic Institute
Purdue University

(Note: A maximum of 9 hours credit for TECH 69000 is permitted on any plan of study program)

(Please type or print all information clearly)

Student Name ___________________________ Student I.D. # _________________________

Classification: Ph.D. Ph.D. P8R Current or previous number of credits
(Circle one) of independent study credit: ________

I hereby request permission to enroll in TECH 69000 for _____ credits during the Fall Spring Summer semester, 20___-20___ I plan to pursue an independent study project of the problem, ____________________________________________________________________________________________________________

(Please insert title of course)

I will submit all deliverables by: __________________________ Date __________________________

Student’s Signature __________________________ Date __________________________

I request that credit apply to: __________________________

Doctoral Degree __________________________ Non-degree Study __________________________

(Circle one) __________________________

I am willing to guide the independent study outlined in the attached prospectus and I agree to the deadlines indicated above.

Professor in Charge of Instruction Signature __________ Printed Name __________ Date __________

Enrollment in the above independent study is consistent with the degree objectives of this student and is ☐ on, ☐ not on his/her plan of study. This student will not exceed six (6) credit hours of Tech 69000 on his/her plan of study with this enrollment.

Major Advisor’s Signature __________ Printed Name __________ Date __________

Approved __________________________

Department Head Signature __________________________ Date __________________________
INDEPENDENT STUDY REQUEST INSTRUCTIONS
Polytechnic Institute
Purdue University

REQUEST FOR PERMISSION TO ENROLL IN AN INDEPENDENT STUDY COURSE

Procedures

1. Meet with your professor to discuss your proposed study and secure his/her approval for the project you envision.

2. Incorporating your professor’s input, prepare a detailed project prospectus (typed or word processed; use APA format, title page), including the following indicated sections:
   a. **Problem**: Define the rationale and delimit your problem area (explain your interest in pursuing the project, why this area is of concern to you). How does this project relate to your degree objectives?
   b. **Purpose and Objectives**: What do you hope to accomplish? Provide a physical numbered listing of all objectives you expect to accomplish.
   c. **Procedures**: Explain the methods you expect to use and any unusual requirements for materials, equipment, or facilities. A graphical time line and two progress reports from the student must be submitted by the student to the professor in charge between weeks three and ten of the semester. Specifically, indicate key deadline dates for each progress report and deliverable. Provide a narrative, flow chart, or outline of step-by-step procedures used to complete this study. If applicable, provide a supply and material cost worksheet.
   d. **Outcomes**: What will be the tangible results (deliverables, i.e., software source code, papers, reports, products, or summaries) of your study? Who will receive copies (office, professor, co-working professor, and student)? Will you conduct a formal presentation of your results?

3. Meet with your professor in charge to discuss and refine your project prospectus.

4. Revise the prospectus as necessary. Complete the **INDEPENDENT STUDY AUTHORIZATION FORM** (reverse side of this page); attach it to the front of the prospectus, and secure the signatures of your academic advisor and the professor in charge of the independent study course you will be taking.

5. Submit the signed copy of your request to the Graduate Office, Room 150 KNOY. The prospectus must be accompanied by a completed course request (Form 23). A copy of your project prospectus must be given to the professor in charge. **DO NOT submit the Form 23 at the Graduate Office prior to securing the department head’s approval for the prospectus.** Approval criteria include: 1) total numbers of independent study courses on Plan of Study, and 2) Focus on a Polytechnic Institute discipline.

6. The Graduate Secretary will make and distribute copies to appropriate persons and file the original in the departmental office. Make sure to keep a copy for yourself.

Regulations and Restrictions in the Use of Independent Study Courses

1. Independent study may be included in a graduate plan of study only when enrollment is scheduled after the plan of study has been approved. Check with your advisor for other restrictions which may apply to you. Typically, such courses cannot be added to your schedule after the third week of classes.

2. You must submit a copy of your final outcomes (using APA format) for the study to the department head for departmental files, and a copy to the professor in charge before the beginning of finals week. Failure to do so can result in an incomplete or a failing grade.

3. All work submitted must be independent of other course work (previous, existing, or future).
APPENDIX I:

EXAMPLE FORM 23
**SCHEDULE REVISION REQUEST**

1. PUID: 001345678  
2. NAME: Smith Bill  
3. TERM: Fall 2009  
4. COLLEGE: Tech  
5. MAJOR: GR  
6. CLASSIFICATION:  

7. CANDIDATE: YES  NO  
8. REGISTRATION FOR: ☐ EXAM ONLY ☐ DEGREE ONLY  

---

### DROP/ADD/MODIFY REQUEST

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<th>Subject</th>
<th>Course No.</th>
<th>W/ WF</th>
<th>P/ NP</th>
<th>Instructor/Department Head Signature</th>
<th>Date</th>
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### VARIABLE TITLE COURSES

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### OVERRIDE REQUEST

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<td>Tech</td>
<td>697</td>
<td>R. Dulte</td>
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---

**OVERRIDE CODES**

- CLASS: Classification Override
- CLOSOED: Closed Section Override
- CO-REQ: Co-req Override
- COLLEGE: College Restriction Override
- DEGREE: Degree Override
- DFF-PERM: Department Permission
- DUP-ORSE: Duplicate Course
- HONORS: Honors Permission
- INST-PERM: Instructor Permission
- LEVEL: UL or UR Level Override
- MAJOR: Major Restriction Override
- PRE-REQ: Pre-req Override
- PROGRAM: Program Override
- REPEAT: Repeat Limit Override
- TIME-CNFL: Time Conflict Override

---

**COMMENTS**

**AUTHORIZATIONS**

- Signature of Student: Bill Smith  
- Signature of Student's Advisor or Graduate School: Gary Besteline  
- Office Use:
APPENDIX J:

POLYTECHNIC FORM 2: ACCEPTANCE OF GRADUATE PROPOSAL

(available at https://polytechnic.purdue.edu/sites/default/files/files/Polytechnic_Form2_v1_0.pdf)
Purdue Polytechnic  
Graduate Studies

Acceptance of Graduate Proposal  
(To be submitted to Graduate Studies Office Following Proposal Defense Meeting)

Title of Project:

Proposal Defense Date:  Project Type:  Directed Project  
Thesis  
Dissertation

Chair  Date (month/day/year)

Member  Date (month/day/year)

Member  Date (month/day/year)

Member  Date (month/day/year)

Printed Name and Signature of Candidate  Date (month/day/year)
APPENDIX K:

DISSERTATION/THESIS COVER PAGE

PLEASE ENTER TITLE HERE

A Select Type

Submitted to the Faculty

of

Purdue University

by

Your Name

In Partial Fulfillment of the

Requirements for the Degree

of

Master of Science

Select Graduation Month  Select Graduation Year

Purdue University

West Lafayette, Indiana
APPENDIX L:

GS FORM 9: THESIS ACCEPTANCE

(more information available at https://www.purdue.edu/gradschool/research/thesis/required-forms.html)
INSTRUCTION PAGE FOR

GS FORM 9 – THESIS/DISSERTATION ACCEPTANCE

• Do not attach this form to your thesis.
• If your major professor marks your thesis/dissertation as Confidential, you must complete and submit GS Form 15
  http://www.purdue.edu/gradschool/research/thesis/required-forms.html

HOW TO COMPLETE GS FORM 9:

1. Type your name as it appears in your Purdue Registrar Records in the first field
2. Type your thesis title using either ALL CAPS or Title Case in the second field
3. Select your Degree from the pull down menu
4. Designate chair/co-chair lines:
   • If you have a one committee chair, select Chair from the drop down menu beneath the first signature line
   • If you have co-chairs select Co-chair from the pull down menus beneath the first two or three signature lines (as needed)
5. You do not need to type the names of your committee members on the form
6. Print the form (DO NOT PRINT DOUBLE SIDED)
7. Obtain necessary signatures:
   • Some people may need to sign the form in multiple places
   • Format Approved by line:
     • If your department has a Departmental Thesis Format Advisor, s/he should sign the “Format Approved by” line (For a list of Departmental Thesis Format Advisors: http://www.purdue.edu/gradschool/research/thesis/contact.html
     • If your department does not have a Departmental Thesis Format Advisor, the Chair of your final examining committee should sign the “Format Approved by” line
8. Submit the form:
   • If you are doing an in person deposit, bring the form to your final deposit appointment
   • If you are doing a long distance deposit, have the form delivered to the Thesis/Dissertation Office before your appointment time

A GS FORM 9 WITH MISSING SIGNATURES OR INCOMPLETE FIELDS CANNOT BE ACCEPTED

SIGNATURES MAY NOT BE OBTAINED ELECTRONICALLY

• Please make every effort to obtain necessary signatures.
• If one of your committee members is unable to physically sign the form, the committee member can designate your major professor or department head to sign the form on his/her behalf.
• We must have written permission from the committee member. S/he should send an email to the person who will sign for them or to a departmental staff member stating:
  I grant (name of major professor or department head) permission to sign as my proxy on the GS Form 9 of (name of student).

• This should be followed by their full name, department, and contact info.
• Please attach a paper copy of this permission statement to the completed GS Form 9.
• A maximum of 2 proxy signatures may appear on this form. If you need a proxy to sign for more than 2 members, please contact our office.
PURDUE UNIVERSITY
GRADUATE SCHOOL
Thesis/Dissertation Acceptance

This is to certify that the thesis/dissertation

By

Entitled

For the degree of

Is approved by the final examining committee:

1. ___________________________  5. ___________________________
2. ___________________________  6. ___________________________
3. ___________________________  7. ___________________________
4. ___________________________  8. ___________________________

Format Approved by:

Chair, Final Examining Committee ___________________________  or
Department Thesis Format Advisor ___________________________

☐ This thesis is confidential.
☐ This thesis is not confidential.

To the best of my knowledge and as understood by the student in the Thesis/Dissertation Agreement, Publication Delay, and Certification/Disclaimer (Graduate School Form 32), this thesis/dissertation adheres to the provisions of Purdue University’s “Policy on Integrity in Research” and the use of copyrighted material.

____________________________________________________________________

Major Professor

Approved by: ___________________________  Date (mm/dd/yyyy)
Head of the Departmental Graduate Program
APPENDIX M:

GS FORM 30: ELECTRONIC THESIS DEPOSIT

(more information available at https://www.purdue.edu/gradschool/research/thesis/required-forms.html)
INSTRUCTION PAGE FOR
GS FORM 30
FOR ELECTRONIC THESIS DEPOSIT
(Formerly called ETD Form 9)

INCLUDE GS FORM 30 BEFORE THE FIRST PAGE OF YOUR ELECTRONIC THESIS DOCUMENT
DO NOT INCLUDE ANY OTHER FORMS WITH YOUR ELECTRONIC THESIS SUBMISSION
DO NOT INCLUDE THIS INSTRUCTION PAGE WHEN YOU ATTACH TO THESIS
DO NOT ATTACH ANY OTHER FORMS TO YOUR THESIS

Please use ADOBE ACROBAT PRO to complete this form
A free 30-day trial is available here: https://www.acrobat.com/free-trial-download.html

ALL NAMES ON THIS FORM SHOULD BE TYPED ONLY - NO SIGNATURES

- TO COMPLETE GS FORM 30:
  1. Type your name as it appears in your Purdue Records in the first field
  2. Type your thesis title using either ALL CAPS or Title Case in the second field
  3. Select your Degree from the pull down menu
  4. Type the names of your committee members, major professor, and head of the departmental graduate program as they appear on your signed GS Form 9 (include the date the head of the departmental graduate program signed your GS Form 9)

- TO CONVERT GS FORM 30 TO A NON-INTERACTIVE (STABILIZED) FILE:
  1. Click File and choose Print
  2. Select “Adobe PDF” from printer selection using drop down menu.
  3. Specify print range as the last page (form page) only. This will keep you from including the instruction page.
   *For MAC users: Using the Create button, save GS Form 30 as a Word document, then use the print command in Word choose Print as PDF.

- TO COMBINE PDF FILES
  (to include GS Form 30 as the first page of your electronic thesis submission):
  1. Open your PDF thesis.
  2. Click on Tools in the right side of the Ribbon.
  3. Under Insert Pages click Insert From File.
  4. Select your non-interactive PDF ETD Form 9 and click okay.
  5. Set the location to Before and check the button next to First Page, then click okay.
  6. Save your new, combined document.

Questions?
Email gradhelp@purdue.edu with THESIS FORMS in the subject line
Or call (765) 494-3231
This is to certify that the thesis/dissertation prepared

By__________________________

Entitled__________________________

For the degree of__________________________

Is approved by the final examining committee:

Chair__________________________

__________________________

__________________________

__________________________

To the best of my knowledge and as understood by the student in the Thesis/Dissertation Agreement, Publication Delay, and Certification Disclaimer (Graduate School Form 32), this thesis/dissertation adheres to the provisions of Purdue University’s “Policy of Integrity in Research” and the use of copyright material.

Approved by Major Professor(s):__________________________

Approved by:__________________________

Head of the Departmental Graduate Program

Date
APPENDIX N:

GS FORM 32: THESIS/DISSERTATION AGREEMENT, PUBLICATION DELAY, AND CERTIFICATION/DISCLAIMER

(more information available at https://www.purdue.edu/gradschool/research/thesis/required-forms.html)
INSTRUCTION PAGE FOR
GS FORM 32

- Do not attach this form to your electronic thesis document
- All signatures should be in ink
- iThenticate:
  - iThenticate Plagiarism Screening by your major professor must take place prior to completing this form
  - Major professors can obtain iThenticate accounts from Dr. James Mohler, Associate Dean of the Graduate School
  - For information on iThenticate visit: purdue.edu/research/vpr/rsadmin/plagiarism/

HOW TO COMPLETE GS FORM 32
1. Have your major professor review your thesis/dissertation using iThenticate
2. Complete page 1 by typing your name, PUID, major professor’s name, and thesis title, and by selecting your degree, department, and campus from the drop down menus (works best in Adobe Acrobat Pro—free trial available acrobat.com/free-trial-download.html)
3. Print the form (do not include this instruction page if printing double sided) and complete your portion of pages 2, 3 and 4
4. Have your major professor write the date of your iThenticate review on page 4
5. Have your major professor sign page 4
6. If you are requesting a delay of publication: Have your major professor sign page 3
7. Bring the completed form to your deposit appointment

SPECIAL INSTRUCTIONS FOR LONG DISTANCE DEPOSITORS
Please make every effort to have your major professor perform the iThenticate review and sign this form before you leave the Lafayette area. If this is not possible:
1. Have your major professor review your thesis/dissertation using iThenticate
2. Have your major professor print this form, and sign and date page 4
3. If you are requesting a delay of publication: Have your major professor sign page 3
4. Have your major professor send page 4 (and, if requesting a delay, page 3) to the Thesis/Dissertation Office (Young Hall Room B-80) with an attached note stating your full name, department and degree*
5. Complete page 1 by typing your name, PUID, major professor’s name, and thesis title, and by selecting your degree, department, and campus from the drop down menus (works best in Adobe Acrobat Pro—free trial available acrobat.com/free-trial-download.html)
6. Print the form (do not include this instruction page if printing double sided) and complete your portion of pages 2, 3 and 4
7. Mail the form to: Thesis/Dissertation Office
   155 S. Grant Street
   B-80 Ernest C. Young Hall
   West Lafayette, IN 47907-2114

*All your forms must be in the T/D Office before your appointment time or your appointment will be cancelled. Make sure your major professor understands this and knows when you are depositing.
Section I
Master’s Thesis/Ph.D. Dissertation Agreement

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Copyright ownership remains with the author in accordance with Purdue University Intellectual Policy LA.1. This agreement does not prohibit the author in any way from entering into a publishing contract. The author retains all the exclusive rights granted to copyright holders under United States copyright law subject only to the rights granted to the University as stated below.

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I grant in perpetuity, without restriction, royalty free to Purdue University the nonexclusive right and license to reproduce, distribute, and display, in whole or in part, my master’s thesis or Ph.D. dissertation in any format now known or later developed (e.g., ePubs) for preservation and access in accordance with this agreement. This agreement does not represent a transfer of copyright to Purdue University.

I understand that the University will observe any publication restrictions that I have placed on my work and will not make my thesis or dissertation available to other parties until such time as it has been released from these restrictions or I have given my prior permission to the University to allow access by others.

I represent and warrant to Purdue University that the Work is my original work and does not, to the best of my knowledge, infringe or violate any rights of others nor does the deposit violate any applicable laws. I further represent and warrant that I have the authority and/or have obtained all necessary rights to permit Purdue University to use, duplicate, and distribute, the Work and that any third-party owned content is clearly identified and acknowledged within the Work.

This agreement shall survive assignment of any and all exclusive rights provided to copyright holders in Section 106 of the United States copyright law.

Signature of Author

Date (mm/dd/yyyy)
Section II.  
Delay of Publication

Authors may request a publication restriction as part of the ETD submission process. While such restrictions are not generally recommended by the Graduate School, there are cases where their use may be prudent (e.g., patent applications, proprietary data, article and monograph publishing, etc.).

Careful consideration should be given before deciding. Delaying publication will prevent copies of your dissertation from being made available to others outside of the University who wish to read about your research in a timely fashion.

If you are considering a delay of publication, discuss the matter with your major professor. If you opt for a delay, your major professor must indicate his/her concurrence by signing on the appropriate line below.

Your delay of publication will commence upon receipt of your ETD by ProQuest Information & Learning and carry over to the Purdue University institutional repository. During your delay period, your abstract and citation information will be available for viewing online. However, your thesis/dissertation will be withheld from viewing and/or purchase by outside parties. Once your delay has expired, ProQuest will then post your document online expeditiously.

Please note that Delay of Publication is not the same as Confidentiality. Delays of Publication are offered via ProQuest Information & Learning (your nominal publisher), but Confidentiality is a program administered by the Purdue University Graduate School. Confidentiality requires GS Form 15. You may use delays and confidentiality separately or in tandem. If you use both, the Confidentiality period is enacted first. When it ends, the Delay period begins.

Delay

The delay information on this form must match the delay information you provide to ProQuest.

☐ No publication delay

☐ Publication delay until ____________________________ (mm/dd/yyyy)

Signature of Author * Date (mm/dd/yyyy)

Signature of Major Professor ** Date (mm/dd/yyyy)

* Author’s signature is required in all cases
** Major professor’s signature is only required when a delay is requested
Section III.
Research Integrity and Copyright Disclaimer

I certify that in the preparation of this thesis/dissertation, I have observed the provisions of Purdue University Policy III.A.2, November 18, 2011, Policy on Research Misconduct. *

I certify that all copyrighted material incorporated into this thesis/dissertation complies with United States copyright law and that I have received written permission from the copyright owners for my use of their work, which is beyond the scope of the law. I agree to indemnify and save harmless Purdue University from any and all claims that may be asserted or that may arise from any copyright violation.

________________________________________  ____________________________
Signature of Author                          Date (mm/dd/yyyy)

I certify that the author's manuscript was diagnostically reviewed by iThenticate on the date indicated below. Based on the results of the iThenticate diagnostic review; and, to the best of my knowledge, the manuscript includes original work of the author and, in good faith, I believe all content from other authors appearing in the thesis/dissertation has been properly quoted and attributed.

__________________________
Date of iThenticate Review (mm/dd/yyyy)

________________________________________  ____________________________
Signature of Major Professor                  Date (mm/dd/yyyy)

* http://www.purdue.edu/policies/ethics/iiiA2.html
APPENDIX O:

POLYTECHNIC FORM 4: REQUEST TO CONTINUE FROM MASTER OF SCIENCE IN TECHNOLOGY PROGRAM TO DOCTOR OF PHILOSOPHY IN TECHNOLOGY

(more information available at https://polytechnic.purdue.edu/degrees/phd-technology/resources/continuation-ms-phd)
Request to Continue from Master of Science in Technology Program to Doctor of Philosophy in Technology

(This form is only valid for students in the Polytechnic Master of Science. Students in departmental MS programs must apply online to the program via the Graduate School.)

Student completes this section and provides a copy of his or her approved thesis proposal to be included with this form.

Major Advisor:

Graduate Student:

M.S. Thesis Title:

M.S. Graduation Date: Cumulative M.S. GPA:

Major advisor complete this section and obtain signatures

M.S. Committee Members

Recommend for Continuation in PhD?

Yes No

Chair Signature

Member Signature

Member Signature

Member Signature

Department head complete this section

Upon recommendation of the faculty comprising the student’s graduate committee, I request that this student be allowed to continue from the Master of Science in Technology to the Doctor of Philosophy in Technology.

Department Head Date

After completing this form, please route this document to Polytechnic Graduate Program Office (Knoy 461) so that the student’s M.S. application package may be reviewed by the doctoral applicant review committee in the appropriate department.