DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY & LEARNING SCIENCES
DOCTORAL PROGRAM PLANNING GUIDE

LOGAN, UT
http://itls.usu.edu

LAST REVISED: Fall 2017
TABLE OF CONTENTS

Table of Contents
A Letter to Doctoral Students
Department Mission Statement
University Catalog
Graduate Policies and Financial Assistance
Research Core and Doctoral Courses
Doctorate Information
  Committee Composition
  Comprehensive Exams
  Dissertation Proposal
  Changes in Committee
  Reading Committee and Dissertation Defense
  Preparation and Approval of Dissertation
  Dissertation Formats and Multiple-Paper Format
  Sample Proposal Title Page
  Sample Dissertation Title Page
  Dissertation Completion Requirements
Publication and Dissemination of Dissertation
Steps to Your PhD
Guidelines for Doctoral Dissertation Research Proposals
Example Outline for Doctoral Dissertation
Obtaining Approval for Conducting Research with Human Participants from the IRB
DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY & LEARNING SCIENCES
DOCTORAL PROGRAM PLANNING GUIDE

A LETTER TO DOCTORAL STUDENTS

To the ITLS Doctoral Student:

Welcome to the Department of Instructional Technology & Learning Sciences, one of eight departments in the Emma Eccles Jones College of Education and Human Services. We are pleased that you applied to the program and that you were selected to be part of an exciting field of study. We sincerely hope this will be a mutually rewarding experience.

It is our belief that graduate study is a time during which real intellectual development should occur. This experience will call for immersion in the learning process in order to take advantage of the rich resources found here. We encourage your enthusiastic involvement in your classes and collaborative activities with your professors and peers. We hope you will take advantage of the ITSA chapter, brown bag series, field trips, socials, and other non-course activities which all add to your education. The Doctor of Philosophy (PhD) degree program is intended for students who wish to be better prepared to (a) fulfill roles as college and university researchers and teachers in education and corporate training fields; (b) conduct and direct research and development activities in public or private educational agencies or in the corporate sector.

Doctoral programs must be completed within eight years of matriculation. The ITLS PhD requires a minimum of 43 semester credits beyond a master’s degree in Instructional Technology or Learning Sciences. A PhD student holding a master’s degree in a field other than Instructional Technology or Learning Sciences will be required to complete at least 9 credits of the master’s core courses, resulting in a minimum 52 credit program. On some occasions, students with a relevant master’s degree may be asked to complete all or part of the ITLS master’s core. This determination will be made by the temporary advisor or committee chair and the department head. A PhD student who does not have a master’s degree will be required to complete a 70 credit PhD, including the master’s core courses.

The PhD requires a minimum of 33 USU semester credits from an approved program of study. At least three semesters must be full-time registration, two of which need to be consecutive for residence at USU. Check full-time requirements at http://catalog.usu.edu/content.php?catoid=12&navoid=3824.

To help successful completion, we urge students, whenever possible, to spend a minimum of two years on campus. For Utah Residency, see https://rgs.usu.edu/graduateschool/tuition-and-residency.

If we can be of service, if you have questions or concerns, please do not hesitate to talk with your advisor or Department Head. Enjoy your studies.

Doctoral Program Planning Guide — 15
DEPARTMENT MISSION STATEMENT

The mission of the Department of Instructional Technology & Learning Sciences is to provide environments in which graduate students and faculty explore, develop, and disseminate technologies of instruction and information impacting education, business, industry, and government.

UNIVERSITY CATALOG

The University General Catalog describes the regulations related to completing the program, such as the eight year time limit on courses, when and how to form the Graduate Committee, 12 credit maximum of non-matriculated course work transfer credit, deadline for submitting the Program of Study and Application for Candidacy Forms. The Catalog is available online at http://catalog.usu.edu.

GRADUATE POLICIES AND NOTES ON FINANCIAL AID

This section contains important information on Graduate School policies and financial aid.

Classification of Students

A matriculated graduate student has been accepted by a department, with the concurrence of the Dean of the School of Graduate Studies, to an approved graduate degree program.

A full-time matriculated graduate student must do one of the following each semester of the academic year (fall and spring semesters):

1. Register for 9 or more graduate credits;
2. Register for 6 or more credits, if a graduate assistant employed for 15 to 20 hours per week.
3. Register for 3 credits if:
   (a) All required coursework is completed.
   (b) It is the semester of the student’s dissertation oral defense.
   (c) A matriculated-probationary graduate student has been put on warned status because of inadequate progress in his or her degree program.

Graduate assistants and fellowship recipients must be full-time matriculated students with a G.P.A. of 3.0 or above. A part-time student will register for fewer credits than shown above. A continuing registration student will register for three credits of ITLS 7990 (Continuing Graduate Advisement).

Financial assistance

Inquiries

Students should contact the ITLS Department Head for all inquiries regarding assistantships and tuition waivers. Applications for university assistantships, fellowships, and all financial aid

Doctoral Program Planning Guide — 16
Assistantship Expectations

Research, teaching, or graduate assistantships may be available in the ITLS Department or in other departments and centers on campus. The maximum credit load for students on an assistantship is 12 credits. With an assistantship, students are expected to carry work responsibilities ranging from one-fourth (10 hours per week) to one-half time (20 hours per week). USU 7920 is mandatory for all teaching assistants. It is sponsored by the Graduate School; offered as a 0 credit course every semester. International students must also take the International Teaching Assistants Workshop. Even if students do not currently have a teaching assistantship, they are encouraged to participate.

Waivers

University and college tuition waivers are available for qualified doctoral students. Check with the ITLS department Graduate Program Coordinator (GPC).

RESEARCH CORE AND DOCTORAL COURSES

Research Core

The program focuses on research and theory building in instructional design and development. It is comprised of the PhD core, research methods core, practicum, dissertation, and elective courses described below. It is to the advantage of students to work with a faculty advisor/chair beginning the first semester to determine the program of study.

A Research Methods Core (12 credit hours minimum) is required of all doctoral students. While substitutions for required courses may be approved in some instances by the student’s committee and with approval of the Department Head, this approval must occur before a substitute class is taken or accepted by the committee.

Information regarding EDUC research courses, sequences and prerequisites can be found at http://cehs.usu.edu/research/courses/syllabi.

There are 2 prerequisites for EDUC 6600: 1) completion (with a passing grade) of EDUC 6570 (or an approved equivalent) and 2) passing a pretest. The pretest is administered through the USU Testing Center.

PhD Curriculum

The following is a list of the ITLS doctoral curriculum. Each student’s doctoral supervisory committee decides whether course work taken prior to admission will be approved, contingent upon the Graduate School policy that only 12 semester credits of non-matriculated credit can be accepted. It is important to note that the eight-year limit on doctoral course work applies to all credits (8 years at time of graduation).

Doctoral Program Planning Guide — 17
PhD Core (7 credits required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITLS 6300</td>
<td>ITLS Orientation, August</td>
<td>1</td>
<td>Admittance to ITLS PhD</td>
</tr>
<tr>
<td>ITLS 7000</td>
<td>Pro-seminar in Instructional Technology</td>
<td>3</td>
<td>Admittance to ITLS PhD; Completion of master's core or related master's degree</td>
</tr>
<tr>
<td>ITLS 7300</td>
<td>Research in ITLS</td>
<td>3</td>
<td>EDUC 6570 ITLS 7000</td>
</tr>
</tbody>
</table>

Research Methods Core (12 credits required) Required courses (9 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6570</td>
<td>Research Methods</td>
<td>3</td>
<td>PSY 3210*</td>
</tr>
<tr>
<td>EDUC 6600</td>
<td>Measurement, Design &amp; Analysis I</td>
<td>3</td>
<td>EDUC 6570*</td>
</tr>
<tr>
<td>EDUC 6770</td>
<td>Qualitative Methods I</td>
<td>3</td>
<td>EDUC 6570</td>
</tr>
</tbody>
</table>

Optional research methods courses – (minimum of 3 credits required)  

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 6710</td>
<td>Measurement, Design &amp; Analysis II</td>
<td>3</td>
<td>EDUC 6600</td>
</tr>
<tr>
<td>EDUC 6780</td>
<td>Qualitative Methods II</td>
<td>3</td>
<td>EDUC 6770</td>
</tr>
<tr>
<td>EDUC 6810</td>
<td>Introduction to Program Evaluation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EDUC 6760</td>
<td>Literature Review</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Other methodology courses with advisor/chair approval

1 Information regarding EDUC research courses, sequences and prerequisites can be found at [http://cehs.usu.edu/research/courses/syllabi](http://cehs.usu.edu/research/courses/syllabi)
2 EDUC 6570 no longer requires completing an undergraduate statistics course (e.g., PSY 3210). But students should take such a course prior to beginning doctoral studies if they feel under-prepared for graduate statistics.
3 EDUC 6600 requires completing EDUC 6570 (or an approved alternative) and passing an online, 1-hour, multiple-choice pretest.

43 credits minimum are required for the PhD with a master’s degree in Instructional Technology or Learning Sciences.

A PhD student holding a master’s degree in a field not related to Instructional Technology or Learning Sciences may be required to complete all or part of the ITLS master’s degree core in addition to the required 43 credits (minimum of 52). On some occasions, students with a relevant master’s degree may still be asked to complete all or part of the ITLS master’s core. This determination will be made by the temporary chair and department head and will increase the minimum credits required beyond 43.

Students who do not have a master’s degree will be required to complete a 70 credit PhD, including the ITLS master’s core courses.
Electives (12 credits minimum required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITLS 7870</td>
<td>Current Issues Seminar* ^</td>
<td>3</td>
<td>Admittance to ITLS PhD</td>
</tr>
<tr>
<td>ITLS 7150</td>
<td>Advanced Seminar*</td>
<td>3</td>
<td>Admittance to ITLS PhD</td>
</tr>
<tr>
<td>ITLS 7900</td>
<td>Independent Study*</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td>ITLS 7910</td>
<td>Independent Research*</td>
<td>1-6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Other elective courses with advisor/chair approval, e.g., ITLS, Computer Science, English, MIS, etc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Repeatable for credit ^ Doctoral students must take at least once.

ITLS Practicum courses (0-8 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITLS 7820</td>
<td>Literature Review*</td>
<td>2</td>
</tr>
<tr>
<td>ITLS 7820</td>
<td>Empirical Research*</td>
<td>2</td>
</tr>
<tr>
<td>ITLS 7820</td>
<td>Teaching*</td>
<td>2</td>
</tr>
</tbody>
</table>

Students may take up to 4 separate practicum courses. The program also allows the flexibility to complete a practicum as part of a graduate assistantship.

Literature Review

The literature review is expanded into a full length, dissertation-quality research review during this practicum. For a comprehensive discussion on the importance of the dissertation literature review, consult Boote, D.N. & Beile, P. (2005). Scholars before researchers: On the centrality of the dissertation literature review in research preparation. Educational Researcher. 34(6), 3-15.

Empirical Research

Students will carry out a full-fledged but small-scale pilot of their dissertation study. This pilot study will provide valuable formative feedback regarding the functionality of the dissertation’s core supporting product as well as the methodology. Lessons learned in the pilot study should be integrated into the Dissertation Proposal that the student eventually defends.

Teaching Practicum

Students may teach a course for this optional practicum, working closely with a faculty member on the development of course objectives and materials. The practicum report would include all course documentation (syllabus, grading rubrics, etc.), a report of student evaluations including representative student comments, and a reflective piece of writing in which the student describes what they’ve learned from the process of preparing for, teaching, and marking a course.

Dissertation (12 credits minimum required)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>ITLS 7970</td>
<td>Dissertation*</td>
<td>12-18</td>
<td></td>
</tr>
</tbody>
</table>
The required courses described above are the minimum. Students are strongly encouraged to take additional research methods, electives, or independent study courses depending on their research interests.

**Recommended sequence:**

<table>
<thead>
<tr>
<th></th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
</table>
| **Year 1** | Orientation  
ITLS 7000  
EDUC 6570  
Elective | ITLS 7300  
Responsible Conduct of Research  
Research Methods course  
Elective |
| **Year 2** | Research Methods course  
Elective and/or  
Practicum and/or  
Independent Research | Research Methods course  
Elective and/or  
Practicum and/or  
Independent Research |

**Responsible Conduct of Research Training**

Ethical and responsible conduct of research (RCR) is critical to public trust in science, technology and engineering. Education in the responsible and ethical conduct of research is now considered a best practice in the professional development of future scientists and engineers.

**RCR training is mandatory for all new doctoral students**

To make the training as accessible as possible we will move our Research Scholar Certification program to an extensive online approach that will require all incoming doctoral students to:

1. Attend Research Scholars Orientation – a 2.5-hour session that includes forum type lectures from faculty.
2. Attend online modules, each about 15-20 minutes, provided by the collaborative institutional training initiative (3-4 hours).
3. Attend two (1 hour long) Research Scholars Forums. The forums are taught by faculty and will be offered twice a year, once in the fall and once in the spring.

Completion of the above three components will satisfy a noncredit course (USU 6900) that will appear on the student’s transcript. All new USU doctoral students will be required to register for this zero credit course during the spring semester. This will provide the student, their faculty, and the university, with documentation that RCR training has been completed. This approach will also allow us to ensure compliance under auditable conditions with the requirements of federal funding agencies. It remains the responsibility of the faculty principal investigator to ensure that all students (graduate, undergraduates and postdocs) working and associated with these grants have taken and passed USU 6900.
DOCTORATE INFORMATION

This section is meant as a partner to, and in compliance with, all college and School of Graduate Studies requirements relating to those steps for a student to earn a PhD.

Relevant forms can be found at http://rgs.usu.edu/graduateschool/forms/

Once completed, forms should be submitted to the department’s Graduate Program Coordinator (GPC).

Committee Composition

At the time of their approved course of study, students should have five committee members who have agreed to serve on the PhD committee. At least three members must be from the ITLS Department, including the committee chair. The signatures of all five committee members are required on a student’s approved course of study, normally formed at the close of the student’s first year of study.

All members of the committee are required to attend and participate in the student’s comprehensive exams. Signatures from each committee member are required to show successful completion of the exams. Similar participation and signatures are required to show acceptance of the dissertation proposal and progression to doctoral candidacy.

All committee members must agree that the dissertation document has reached a defensible state prior to scheduling a dissertation defense; all committee members’ signatures are required on the Appointment for Examination Form. This form is required to be at the Graduate School 15 days prior to the defense date. Note that approval of defense date by the committee does not have any bearing on whether or not the defense will be successful. All members of the committee are to receive the approved dissertation document at least 4 weeks prior to the defense date.

Progression

A typical progression for a PhD student in the Department is as follows:

Initially, new PhD students will be assigned a temporary advisor. They should speak with him/her to help set an initial schedule and course of study related to the student’s interests.

After 12 credits, the student contacts individual faculty members to discuss areas of mutual interests to select his/her Committee Chair. With the chair, the student selects a dissertation committee, taking into consideration recommendations from the individual faculty members. At this time, the student will complete a Supervisory Committee Approval Form.

After 12-18 credits, the student must complete his/her Program of Study Form as required by the Graduate School. Typically, this is required by the beginning of the third semester. The form requires signatures from all committee members.
During the research methods courses, the student should ensure the committee feels the student’s chosen sequence is appropriate for their particular area of interest or specialization. If the research course is deemed to be inappropriate for the student’s specialization, then other research courses may be substituted with committee approval.

**Comprehensive Exams- Matriculated before Fall 2014**

Students who have matriculated prior to Fall 2014 may opt to follow either comprehensive exam process described below, with full committee approval.

In preparing for comprehensive exams, students must have their five-member committee in place and completed their coursework, excluding credits for dissertation, internship, and fieldwork. This means that the earliest students can take their comprehensive exams is in the semester in which they will have completed the required coursework. They must sign-up one month in advance and be enrolled as a student the semester they wish to take their comprehensive exams. Students can, of course, work on their dissertation proposal during this time if they wish, however their committee will not consider it until after they have successfully passed their comprehensive exams.

In preparing for the comprehensive exam, students should designate areas of specialization (approximately three to five) related to their dissertation research. For each area, they should develop a list of seminal references. In consultation with the chair and relevant committee members, the lists are revised, and ultimately form the basis for the comprehensive exam questions.

Comprehensive exams will take on a format suggested by the student and chair in cooperation, and approved by all committee members. A typical comprehensive exam might include a single question proposed by each committee member in relation to his/her areas of interests and the student’s specialization. The student will have seven days to complete the exam, followed by a two-week period in which the committee considers the student’s responses. A follow-up meeting takes the form of an oral defense of the written comprehensive exam portion, attended by the student and the full supervisory committee.

**Comprehensive Exams- Matriculated Fall 2014 or later**

The comprehensive exam serves as preparation for and demonstration of one’s ability to conduct independent scholarly research. The exam must be successfully completed, as determined by a three-person comprehensive exam subcommittee, prior to defense of a dissertation proposal. The comprehensive exam subcommittee consists of members of the student’s dissertation committee and must include the committee chair and at least one other member of the ITLS faculty. The third committee member can be an ITLS faculty member or an approved member from an outside department.

The expectation is for the exam to consist of two written papers (an empirical paper and a major area or conceptual paper), a closed oral defense of the two papers with an exam subcommittee, and a public departmental presentation of the empirical paper. However, the exam...
will ultimately take on a format that has been decided upon in advance of the exam and must be unanimously approved by the student and a 3-person comprehensive exam committee.

The empirical paper must present a well-structured argument based on original empirical research led by the student, comparable in structure to what would be prepared for a journal article or published conference proceedings. The student may choose to use data that is part of an existing research project. The student may also choose to design a study that requires the collection and analysis of new data unaffiliated with an existing project. Regardless of what data are used, the appropriate authorizations and approvals from the research participants, the institutional review board (IRB), and (when applicable) the principal investigators, must be obtained. See IRB section below for more information.

The major area or conceptual paper must present a well-structured argument regarding the current state of knowledge in the major area. It should review and synthesize theory and research in an ITLS relevant topic area, as agreed upon by the comprehensive exam subcommittee.

Both papers should conform to a length and style comparable to what would be typically acceptable in a competitive and peer-reviewed journal article or conference with published proceedings.

<table>
<thead>
<tr>
<th>Highest degree completed by time of matriculation:</th>
<th>Comprehensive exam must be successfully defended before:</th>
<th>For full-time students, by the end of:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masters in ITLS or directly related field</td>
<td>43 credits completed</td>
<td>5th semester</td>
</tr>
<tr>
<td>Masters in a non-related field</td>
<td>52 credits completed</td>
<td>6th semester</td>
</tr>
<tr>
<td>Bachelor’s degree</td>
<td>70 credits completed</td>
<td>8th semester</td>
</tr>
</tbody>
</table>

In order to continue in the PhD program in good standing, the comprehensive exam must be successfully passed in a timely manner, as determined by completed credits (see table above). The exam can be completed earlier with approval from the exam subcommittee.

Following successful defense of the comprehensive examination, students are also required to deliver a public oral presentation of their empirical paper and respond to questions and comments from attendees at a predetermined time no later than the Spring Semester following their successful exam defense. The oral presentation may occur after completion of the credit deadline above, but should be done as soon after successful exam completion as possible.

**Dissertation Proposal**

The student submits a dissertation proposal for review by the committee chair. After his/her approval, the proposal is given to the committee members. Committee members must receive a copy of the dissertation proposal a minimum of **two weeks** prior to the proposal defense.

After all recommendations from committee members have been adequately addressed, the student’s chair may schedule a meeting with the student and full committee for the oral defense of the proposal. If successful, the committee approves the proposal and signs the
appropriate form. At this time, the committee will sign the proposal cover sheet and the Application for Candidacy for Doctoral Degree Form. Note that in order for the student to achieve candidacy, all course requirements must be completed, comprehensive exams must be passed, and the student’s dissertation proposal must be approved by all committee members.

IRB approval may be required in order to conduct dissertation research involving human participants. See the IRB section below for more details.

Non-coursework Requirements

As part of the requirements for graduation, doctoral candidates must have made a professional presentation and submitted an approved manuscript for publication to a refereed journal. The journal submission is to be related to the dissertation. Verification of this requirement is mandatory before the oral defense of the dissertation.

Changes in Committee

No committee revisions (changes in committee membership) can be made in the six weeks prior to dissertation defense. Substitutions for committee members unable to attend defenses must be approved by the Department Head and the Graduate Dean.

Reading Committee and Dissertation Defense

After a student has reached candidacy, the student and chair may choose to form a three-person dissertation reading committee. These three people are chosen from the original five members and must include the committee chair. The reading committee may be responsible for mentoring different aspects of the dissertation as decided upon by the student and chairperson.

Once all committee members agree that the dissertation has reached a defensible state the chair may initiate the scheduling of a dissertation defense. Note that approval of defense date by the committee does not have any bearing on whether or not the defense will be successful. All members of the committee are to receive the approved dissertation document at least four weeks prior to the defense date.

The student must register for at least three credits during the semester of defense. See dissertation completion requirements section below.

The defense cannot be scheduled between academic terms. To schedule the final oral defense, the Appointment for Examination Form must be completed. This form, indicating the committee’s approval of the proposed time and place for the examination, must be in the School of Graduate Studies, no less than ten working days before the defense. As part of the scheduling process, the student must have completed the Copyright Ownership and Authorship Form as well as an Application for Candidacy Form in the School of Graduate Studies three months before the dissertation defense. The final oral exam must be scheduled at least four weeks prior to commencement to have the student’s name printed in the program, by the last day of finals week to participate in the hooding. Deadlines are published annually by

Doctoral Program Planning Guide — 24
the Graduate School.

The dissertation defense is a public meeting and must be attended by the students and all members of the committee and conform to the guidelines outlined by the college and university. It is the responsibility of the student to ensure that the dissertation defense is advertised with a minimum of 1 week prior to the defense date, through a variety of venues. As with the comprehensive exams and proposal defense, the result of the dissertation defense may take many forms, including requiring additional work by the student or outright failure. Signatures of all committee members are required for a successful dissertation defense and the **Record of Examination Form** must be completed. When a committee member does not concur, the matter is taken to the Graduate Dean who may request an outside review.

Students must complete all doctoral degree requirements within one year of your successful dissertation defense; otherwise, students must re-defend.

**Preparation and Approval of Dissertation**

The quality of the product, which should represent the student's own best work, is the responsibility of the student. Monitoring the quality of the dissertation and mentoring the student in writing are responsibilities of the student's chairperson, with the assistance of the student's doctoral supervisory committee members. Editing by anyone other than the chairperson and committee members should be limited to mechanics, such as spelling and grammar. When presented to the committee, the dissertation should be in final format as approved by the American Psychological Association (APA format).

The School of Graduate Studies requires dissertations to be reviewed by an editor for style and formatting issues before it is reviewed by Graduate School. The ITLS GPC will have a list of approved reviewers on campus. An off-campus reviewer may be used as well. The student is in charge of paying for the editor. Once edits have been made, work with the GPC to complete the **Thesis/Dissertation Format and Style Form** to be turned in with the student’s dissertation. A publication guide can be found on the graduate school website: [http://rgs.usu.edu/graduateschool/forms/](http://rgs.usu.edu/graduateschool/forms/)

**Dissertation Formats and Multiple-Paper Format**

Students should be aware that at least two different ways of doing doctoral dissertations are acceptable: a traditionally formatted dissertation and a multiple-paper format.

It is often the practice for graduating PhD students to offer bound copies of the dissertation to members of their committee.

Our Department affirms its commitment to the Graduate School policy on the multiple-paper dissertation option. In accordance with the committee’s approval, a student pursuing this option may submit article manuscript(s) in lieu of a traditional dissertation.

A thesis or dissertation using a multiple-paper format consists of at least two chapters, typically written as independent papers, preceded by an introductory chapter that sets the context for...
the research, and followed by a summary and conclusions chapter that integrates all of the studies.

One article or article-manuscript may not be submitted as a thesis or dissertation.

For a document in the multiple-paper format, the style may differ for chapters that are targeted for publication in different journals, however the style should be consistent within each chapter.

The Publication Guide from the Graduate School provides more details on the multiple paper format. See: http://rgs.usu.edu/graduateschool/thesis-dissertation-requirements/

Recent ITLS example: http://digitalcommons.usu.edu/etd/5488/

Enhancing Students’ Higher Order Thinking Skills through Computer-based Scaffolding in Problem-based Learning, Nam Ju Kim, Spring 2017
SAMPLE PROPOSAL COVERSHEET/TITLE PAGE

DOMAIN KNOWLEDGE REPRESENTATION MODEL FOR INSTRUCTIONAL ANALYSIS AND DESIGN

by

Name

A dissertation proposal submitted in partial fulfillment of the requirements for the degree of

DOCTOR OF PHILOSOPHY

in

Instructional Technology & Learning Sciences

Approved:

___________________
Name, degree
Major Professor

___________________
Name, degree
Committee Member

___________________
Name, degree
Committee Member

___________________
Name, degree
Committee Member

___________________
Name, degree
Committee Member

A title page should be included with both the dissertation proposal and the final dissertation. Please note that the name of all committee members should be typed beneath the signature lines.

UTAH STATE UNIVERSITY
Logan Utah

2010

Doctoral Program Planning Guide — 27
SAMPLE DISSERTATION COVERSHEET/TITLE PAGE

A DOMAIN KNOWLEDGE REPRESENTATION MODEL FOR INSTRUCTIONAL ANALYSIS AND DESIGN

by

Name

A dissertation submitted in partial fulfillment of the requirements for the degree of

DOCTOR OF PHILOSOPHY

in

Instructional Technology & Learning Sciences

Approved:

Name, degree
Major Professor

Name, degree
Committee Member

Name, degree
Committee Member

Name, degree
Committee Member

Name, degree
Vice President for Research and Dean of the School of Graduate Studies

UTAH STATE UNIVERSITY

Logan Utah

2010
Dissertation Completion Requirements

1. Graduate students using University facilities or faculty time must be registered for a minimum of three graduate credits every semester until completion of all degree requirements, except, in some cases, the semester of final thesis or dissertation approval (see below). The semester a student defends (or re-defends) a thesis, Plan B paper, or dissertation or takes final oral examinations, he or she must be registered for at least three credits. Doctoral students will be given until the last day of the next semester following the defense to finish degree requirements. If a student has not completed all degree requirements by the end of the grace semester, the student must register for at least one credit the semester of completion and pay the Continuous Registration Fee for any intervening semesters for which he or she did not register. If working with faculty involves more than routine completion of the dissertation, registration for three or more credits is required. During any interim semesters, students who are not on campus (as confirmed by a letter from the student’s department) may pay a $15 continuing registration fee without registering for credit hours.

2. Graduate students failing to complete all degree requirements within one year of successful defense shall be required to re-defend.

3. To ensure that students are able to submit a final copy of the thesis or dissertation to the Graduate School within the time limit, the defense should not be scheduled until each committee member has read the dissertation. The student must submit copies of the dissertation to committee members at least four weeks prior to the anticipated date of defense. Moreover, it is incumbent on the committee members to return their criticisms and the drafts of the dissertation to the student within four weeks. Failure to do so would be grounds for postponing the defense. If extensive changes are requested of the student at the defense, the completion of the defense and the signing of the title page by the committee should be postponed and a new defense form submitted to the Graduate School.

The oral examination is a defense of a final document. Minor, usually editorial, changes may be made following the defense. If major changes are needed, another defense will be scheduled for the new document.

The Graduate School has asked each department to specify a person to check papers for format prior to defense. That person should be a resource for students with questions concerning format and should work closely with the department GPC. The Graduate School requires verification of format approval by the Department and major professor, which must be submitted with the dissertation before it is reviewed by the GPC. It is essential that the student use the Department approved publication style early in the process of dissertation preparation. The style described in the American Psychological Association’s Publication Manual is the style followed in the ITLS Department.

PUBLICATION AND DISSEMINATION OF DISSERTATIONS

The rights to data are especially of concern if a student’s thesis/dissertation research is carried out as part of a project with a principal investigator (PI) or in a laboratory using supplies and

Doctoral Program Planning Guide — 16
equipment furnished to the student. Under certain circumstances, data gathered for use as part of a research project are the property of a federal, state, or private agency, Utah State University, or the principal investigator(s). Students using such data may be required to waive the right of ownership and/or the privilege of copyrighting the thesis/dissertation. Early in the program, students should discuss the ownership and right to the data to be utilized in thesis/dissertation research with committee chairperson and, if the thesis/dissertation involves work on a project or in a lab, with the PI or lab director.

A form from the Graduate School specifies plans for publication. Students must discuss plans for publication with the chairperson and committee members to avoid misunderstandings about co-authorship or other acknowledgment as they publish parts or all of the thesis/dissertation. Student signature and those of the committee members indicate that plans have been discussed and all are in agreement.

Theses and dissertations should be contributions to knowledge in the student's field of study. A dissertation in particular should be publishable, in whole or in part, in one or more quality academic or professional journals. As with any publication, articles (or books) based on a dissertation should include acknowledgment of significant contributor(s) to the work. Sometimes the appropriate acknowledgment is a footnote identifying person(s) by name and the nature of the contribution(s). It is not unusual for publications based on a dissertation to be co-authored by the graduate student, his or her major professor, and on occasion, other committee members.

The involvement of the major professor in the conceptualization and execution of the project is typically sufficient to warrant joint authorship. It would, however, be unusual and, in fact, contrary to the instructional purpose of a dissertation, if a faculty member contributed more than the student to the dissertation and so was listed as the senior author on a resulting publication. There may, however, be occasions when that is justified, such as when a faculty member takes the initiative to prepare a manuscript for publication in the absence of the student's willingness or desire to do so. Such an arrangement should be negotiated and agreed upon prior to submission for publication. Under no circumstance should a professor publish from a student's dissertation without appropriate acknowledgment. In most cases, acknowledgment of the student's work will be, as noted above, first authorship on the article. If a portion of the dissertation is incorporated within a larger work, with the student's agreement, the work may be acknowledged by authorship of a chapter, a footnote acknowledging that a particular section was drawn from the dissertation, or citation of the dissertation. The appropriate acknowledgment should be agreed upon before publication.

On occasion, a student may believe that he or she has been exploited because material that the student wrote has been used without permission or the student's work has not been adequately acknowledged in a faculty publication. In such a case, the student should follow the procedure for academic grievances, as presented in Article VII of The Code of Policies and Procedures for Students at Utah State University (http://personnel.usu.edu/policies/policies.html).

The first step is to discuss the concern with the faculty member(s) involved. If such a discussion is not feasible or if the outcome of the discussion is not satisfactory to the student,
he or she should discuss the issue with the faculty member's department head. If the student's concerns are not resolved at that level, he or she should appeal to the Dean of the School of Graduate Studies who will investigate the complaint in cooperation with the dean of the academic college involved and, if necessary, appoint a University Hearing Panel.
1. Meet with your Temporary Advisor
After admission and before registering for courses, meet with your temporary advisor to discuss a proposed program of study and what you see as your timetable for the degree. You may want to use DegreeWorks (in Banner) to keep track of your options. The temporary advisor does not have to be the Chairperson of your graduate committee. This meeting will probably involve some general discussion of your research interests.

Date Completed____________________

2. Form your Five Person Graduate Committee
The Graduate Committee for PhD students consists of five individuals (one from outside the Department). When you have completed one semester and have an idea of the research you intend to do, find a Department faculty member to chair your Graduate Committee who has expertise related to your interests. Set up a meeting with your chairperson to decide who the other four faculty members will be (your committee must be established after your first year in order to obtain a tuition remission). Once you have decided on the five members please fill out the Supervisory Committee Approval Form.

Meet with each of the five faculty members individually to get their signature on the form before turning it in to the ITLS Department Graduate program coordinator for the Department Head’s approval.

Date Completed____________________

3. Submit a Program of Study (PoS) Form
As you near the end of your second semester, consult with your chairperson. Use the Program of Study Form to plan your classes semester by semester through the completion of your degree, then meet with your Graduate Committee members to review and approve what you have planned. On this form, you will list the proposed courses for your degree as well as your research topic (if known). At this same meeting, you should come prepared to share your ideas for a potential dissertation topic.

As you take the PhD core, research methods core, and the other elective courses, continue to meet with your committee chairperson to discuss your proposed area of research.

Date Completed____________________

4. Complete your Comprehensive Exam
You must be enrolled for at least 3 credits during the semester you take the comprehensive exam. Refer to the Comprehensive Examination Policy in this document.

If a follow-up meeting of your full graduate committee is needed to discuss the exam it should be arranged by you and your chairperson.

Date Completed____________________

Doctoral Program Planning Guide — 19
5. Develop Your Dissertation Proposal and Complete Proposal Defense
Although you may work on your dissertation proposal during the sequence of research courses, your doctoral committee cannot consider the proposal for approval until after you have passed the comprehensive examination. After passing the exam, work with your chairperson to complete your research proposal. Your proposal is an agreement between you and your doctoral supervisory committee. Procedures outlined in your proposal constitute the minimum acceptable work for your dissertation; you may, of course, add areas of inquiry as your research develops. Please note that all changes should be discussed with your chairperson and that all major changes must be approved by your entire committee. Note also that IRB approval may also be required.

Refer to the Guidelines for M.S. Plan A Thesis And Doctoral Dissertation Research Proposals in the document. For format, consult the current Publication Manual of the American Psychological Association. Your chairperson will want you to send a draft copy of your proposal to each member of your committee for their input.

Date Completed____________________

6. Defend your Proposal and Submit the "Application for Candidacy" Form
When the proposal is ready to defend, you should arrange a meeting of the full committee where you will present your proposal and, if accepted, obtain the signatures of all five committee members on the cover sheet. After a successful defense, complete the Application for Candidacy" Form to indicate that you are now qualified as a candidate for the PhD. All committee members must sign this form. Turn the form in to the ITLS Graduate Program Coordinator for submission to the School of Graduate Studies. This form must be approved at least 3 months before you defend your dissertation.

Please note that if your dissertation research may require IRB (Institutional Review Board) approval. Note that IRB certification is also required. See IRB section in this document

Date Completed____________________

7. Meet the Professional Presentation and Publication Requirements
Doctoral candidates must have made or be making plans for a professional presentation and to also submit for publication an approved manuscript or other scholarly work. Submissions must be to refereed journals, professional journals, or reputable publishers as approved by the supervisory committee; such submissions may occur before the dissertation is finished. The student must be the first (or senior) author or producer, but the manuscript may be a joint publication. The content of the manuscript must be related to the dissertation or to the field of Instructional Technology & Learning Sciences. Verification of the presentation and publication are required before the final dissertation oral defense. Complete the Copyright Ownership Form, plus the Authorship Form at the same time as your Application for Candidacy Form.

Date Completed____________________

8. Complete Your Research and Write Your Dissertation
After the proposal is approved, conduct the research staying in close contact with your chairperson and other members of your committee as needed. A sheet with critical completion

Doctoral Program Planning Guide — 20
deadlines for those students wanting to graduate and participate in the May commencement program is available at the School of Graduate Studies and should be followed. It is your responsibility to meet all deadlines throughout the process.

In writing your paper, follow accepted reporting guidelines (APA style). Make sure you attend a workshop on dissertation format conducted by the School of Graduate Studies. Work closely with your committee chairperson as you prepare various drafts of your dissertation. Please note also that before you defend your dissertation, it must meet APA style as well as USU Dissertation format and style.

**Date Completed________________________**

9. **Schedule your Final Defense for the doctoral degree**
   After you have written your dissertation, again staying in close contact with your chairperson, you may schedule a defense of your dissertation. In planning your defense date, be aware that the School of Graduate Studies publishes doctoral deadlines each year for May commencement exercises; these deadlines are generally in late February. A copy of the dissertation should be given to each member of the committee at least **four weeks** before the defense. It is Graduate School policy that the oral examination is to be a defense of the dissertation, not an opportunity to suggest substantive revisions in it, and that a committee member who thinks a dissertation is not ready for defense, should so notify the candidate and his/her advisor as soon as possible before the scheduled defense.

   The **Appointment for Examination Form** must be sent to the School of Graduate Studies at least **ten working days** before the exam bearing your committee members’ signatures. Please remind the members of your committee of the date, time, and place of the exam. Coordinate this through the ITLS Graduate Program Coordinator. Defenses may not be scheduled between semesters. Post and email an Announcement of Defense to the Department so visitors can attend the first part of the defense to learn of your findings. The defense must be held at least 7 weeks before the end of the semester if you want to graduate the same semester you defend.

   On the day of the defense you should be prepared to defend the dissertation as written and submitted to the committee. Your committee may suggest editorial changes; however, if the oral examination indicates weaknesses that require major revisions, your defense may be rescheduled. A range of options is available to committees, including: 1) clear pass 2) re-examination 3) failure. For your defense to be considered satisfactory, all five committee members must concur.

10. **Complete revisions and file required documents**
   Needed revisions in your dissertation may result from the examination, work with your chair to make the changes immediately after the defense. The other committee members may decide not to sign the dissertation until after a revised copy is available.

   As a courtesy to members of your committee you should ask which of them would like to receive a bound copy of the revised dissertation. You should obtain and distribute copies to them after the dissertation is bound.
After the defense, use the “Checklist for Graduation” to ensure nothing related to completing your degree has been forgotten. Check with the GPC in the Department to be certain all items are in order for your graduation. It may be wise to visit or call the Graduate School to be certain everything is in order. Complete the **Thesis/Dissertation Format and Style Form.** Once you have the final signatures of your committee and approval by the School of Graduate Studies, provide the School of Graduate Studies with three copies of your dissertation and one additional copy of the title page and the abstract for binding and microfilming. You must also provide an electronic version to the Library. Make sure to follow the various steps for printing, binding, and microfilming outlined by the School of Graduate Studies; otherwise, your graduation could be delayed. Complete the **Electronic Thesis/Dissertation From.**

While it is not required that you attend graduation, it is opportunity for celebration. After all this is a chance for the University to celebrate your success. If you are attending and need to buy or rent a cap and gown, be certain to meet the deadline. The "hooding" ceremony is held the day before graduation and is as important as the actual graduation since that’s where you are hooded by the Dean and your Chairperson and receive your diploma from the President and Provost.

**Date Completed____________________
GUIDELINES FOR DOCTORAL DISSERTATION RESEARCH PROPOSALS

The purpose of a proposal for a master's thesis or doctoral dissertation research is to provide the student's supervisory committee with sufficient information to decide on the significance of the proposed research and whether the project is likely to be fruitful. To accomplish that goal, the proposal should: (1) present the logical need for the proposed piece of research; (2) provide an analysis of the most important past research as a context for the proposed study; (3) specify the objectives and/or the hypotheses or research questions; and, (4) outline the basic procedures to be followed. The approved proposal is a statement of agreement between the student and the committee as to the minimum expected for the thesis or dissertation research. If you are planning to do a qualitative study, there may be additional considerations. (See Qualitative Procedures.)

Preparation of a research proposal is an important writing experience. In order to realistically approximate common funding agency requirements and to expedite review, the narrative portion of the proposal (exclusive of references and appendices) is not to exceed 30 pages. The proposal should not be the first three chapters of the dissertation or thesis. The purpose of the proposal is to present a rationale for a proposed study and establish its basic outline, not to serve as a definitive scholarly report, as is the thesis or dissertation. The explanation of the problem, the review of past research, and the proposed plans need not, therefore, be as comprehensive as in the thesis or dissertation. Sufficient detail should be provided in the proposal so that the committee can (1) determine that the student is aware of the relevant prior research, (2) judge the adequacy of the conceptualization of the research area, and (3) identify any potential difficulties in the proposed study. The student will, of course--in consultation with his/her advisor--fill in details, often expanding on the anticipated procedures, as he or she conducts the research. Major changes or accumulations of changes should be approved by the student's supervisory committee.

Sections in the Proposal

The following sequence of suggested sections for doctoral dissertation proposals reflects a basic logic of investigation, from intellectual uncertainty to plan of action. The sections are those essential to an adequate proposal, although some advisors may prefer a different order (e.g., placing the Objectives prior to the Review of Literature). Also, the general structure may be modified depending upon the particular type of research problem being addressed. For example, the Procedures section may be quite different from the one suggested here if the student's dissertation is to be philosophical and will not involve the gathering of data in the conventional sense. Even for students who will gather data, the subsections may be treated somewhat differently depending upon whether the problem calls, for example, for single subject, experimental, correlational, survey, historical, ethnographic, or content analysis research.

For dissertation proposals, however there should be Statement of the Problem, Review of Related Literature, and Purpose and Objectives sections, as well as a Procedures section appropriate to the type of research to be conducted. Without these, it is difficult for the
committee to determine what the student plans to do, to point out potential errors or inappropriate approaches, and to judge when the student has completed the agreed upon project.

_The Problem (suggested length: 1-3 pages)_
The statement of the problem (that is, the intellectual quandary, dissonance, or perplexity) that underlies the proposed research is typically the introduction to a research proposal. That is, the introduction logically culminates in a problem statement. The problem statement provides the logical foundation upon which the rest of the proposal is built.

In applied research, the problem statement usually begins with a statement of need, which may be based on a public policy to be fulfilled or examined and/or on data indicating some shortcoming in educational or psychological services. The need is not, however, the problem. Any one need may be the basis for a number of different research problems, depending upon the research evidence that is available and judgments about how to best address the need. For example, the need to avoid the erroneous placement of bilingual minority students in special education classes might lead to research on the sensitivity of school personnel to cultural influences on their decisions about students, on the evidence for the validity of the instruments used to classify bilingual students, or on the extent and nature of parental involvement in classification decisions. In basic research, the assumed need is for adequate knowledge, and reference to public policy or needs data is usually not necessary. It is sufficient to note the intellectual quandary, which may be a theoretical formulation that merits testing, the lack of research on an important phenomenon, conflicting past findings, and/or the lack of evidence for the reliability or generalizability of past findings.

Toward the end of the Problem section, it is often helpful to include a one-sentence synopsis of the research problem. The problem should not be confused with the purpose of the study.

_Review of Literature (suggested length: 5-15 pages)_
The Review of Literature should place the proposed study in context through a critical analysis of selected research reports. This section of the proposal should:

1. provide a synthesis of findings in a "state-of-knowledge" summary in regard to the problem area, including additional evidence as to the nature and/or the importance of the problem;

2. make clear how further research should extend, differ from, or replicate past studies, including the identification of the critical variables in the problem area and important hypotheses to be tested;

3. indicate shortcomings in the design of prior research that should be avoided, as well as strengths to be repeated in conducting another study;

4. provide a critique of the literature as a basis for any controversial methodological decisions to be presented in the proposal.

The Review of Literature in the proposal is not intended to be a complete presentation of the comprehensive review of related research that should have preceded writing the proposal. Only those studies that are directly pertinent to structuring the proposed research should be
discussed briefly, in order that the student's committee can determine that major studies
and/or issues have not been overlooked. A comprehensive, detailed review of related literature
is presented in the dissertation as a "published" demonstration of knowledge about the field.

Purpose and Objectives (suggested length: 2-3 pages)
A one- or two-sentence statement of the general purpose of the research often is the opening
for this section, followed by a list of specific objectives to be accomplished.

Following the objectives, the hypotheses or research questions that are to guide the study are
listed. Typically, the hypotheses state the researcher's expectations based on theory or past
research, as discussed in the Review of Literature section. Directional or null hypotheses may
be stated, depending on expectations.

Hypotheses should be stated in testable form, avoiding value terms that are not empirically
measurable, and including operational statements of independent and dependent variables.

Research questions may be used rather than hypotheses. They are especially appropriate in
studies not aimed at knowledge-building, such as R&D projects or descriptive surveys, or
when a theoretical base for deducing expectations is not available.

Sometimes the objective of a study is taken to be the testing of one or more hypotheses or the
seeking of answers to one or more questions. In such cases, objectives need not be stated
prior to the hypotheses or questions.

Methods (suggested length: 5-10 pages)
The Methods section of the proposal is an explanation of the specific steps to be followed in
meeting the objectives, testing the hypotheses, and/or answering the questions posed in the
prior section. The presentation of procedures should take into account the appraisal of prior
research in the Review of Literature. A chronological listing of major procedural steps in the
proposed study is often useful. The following subsections will usually be included in the
Procedures section. (Procedures may be different for proposals concerning some qualitative
research -- see Proposal Procedures for Qualitative Research).

Population and sample. The target population for the research--the group to which it is hoped
the findings will be applicable--should be defined, consistent with the Statement of Problem
and the Purpose and Objectives. In addition, the accessible population--the population from
which the sample will actually be drawn--should be specified, and evidence, available or to be
gathered, as to population validity should be discussed briefly. Procedures for selecting the
sample should be outlined, including justification for the sampling method. The implications for
the generalizability of findings from the sample to the accessible population and then to the
target population should be addressed. If an entire population is to be studied, it should be
carefully identified in this section.

Design. The approach to conducting the research--whether, e.g., experimental, quasi-
experimental, survey, historical, or ethnographic--should be specified in this subsection, along
with the procedures to be followed. For example, for an experimental or quasi-experimental
study, the proposal should indicate how subjects will be assigned to treatments and how the
research will be conducted to ensure internal and external validity. If an evaluation or R&D

Doctoral Program Planning Guide — 25
project is proposed, the model to be followed should be specified. If test development is the
primary purpose of the project, the specific steps should be indicated. If test development is a
minor part of the study, it should be treated in the Data and Instrumentation section.

Data and instrumentation. Specific information should be provided on the assessment of each
variable. For experimental and quasi-experimental studies, the assessment of both dependent
and independent variables should be addressed. The reliability and validity of scores and other
data should be discussed, including evidence from past studies and information to be collected
in the proposed study. How and when data will be gathered should be indicated and the
procedures justified.

Analysis. Procedures, whether statistical or conceptual, for analyzing the data should be
discussed specifically for each hypothesis or question. General statements such as, "Analysis
of variance will be used to analyze the data", are not acceptable. Careful identification of
analyses prior to conducting the research is crucial; otherwise the student may use analyses
that are inappropriate for the hypotheses, or may find himself/herself with data for which the
adequate analytic tools are not available. Analyses other than those needed to test the stated
hypotheses or answer the research questions may also be indicated here. In conducting the
research, the student may conduct analyses other than those stated in the proposal.

In group design studies, the analysis of data has, traditionally, involved testing null hypotheses
and arriving at statements of statistical significance. It is also important to consider measures
of the magnitude of results (effect sizes) that are not relative to sample size to be used in
evaluating the educational, practical, or theoretical importance of the results.

Style

Unless an alternative has been approved by the student's department and supervisory
committee, the accepted style guide for research proposals, as well as for theses and
dissertations, is the Publication Manual of the American Psychological Association.
EXAMPLE OUTLINE FOR DOCTORAL DISSERTATION

Cover Sheet (Title Page)  
See example cover page

Abstract

Public Abstract

Acknowledgements

Contents

List of Tables

List of Figures

Chapter 1. Introduction, Problem Statement, Purpose and Objectives and Research Questions

Chapter 2. Theoretical Foundation and Literature Review

Chapter 3. Methods and Procedures  
   6.1. Research Design
   6.2. Procedures/Methodology/Participants
   6.2. Data sources and analyses

Chapter 4. Findings

Chapter 5. Discussion, Limitations, and Conclusion

References

Appendices

FORMAT

The proposal should follow the writing standards outlined in the current *Publication Manual of the American Psychological Association* (APA). The APA manual describes and provides examples of current forms for citing references in text, listing references, headings, etc.

Margins, pagination, and typing standards should follow those outlined by the Utah State University School of Graduate Studies Publication Guide.

Introduction
The Institutional Review Board (IRB) is a committee designated to review and approve research involving human participants before the start of such research, and to conduct periodic reviews of such research. For more information, see:
http://irb.usu.edu

Research with human participants is governed by Policy 584. The purpose of this policy is to govern the involvement of human participants in the conduct of research at Utah State University.

Certification
USU and federal regulations require that Principal Investigators, Co-Investigators and any research personnel who will be in contact with participants or performing data analyses must receive training in the ethical protection of human participants. USU uses CITI online training to fulfill this requirement. To obtain certification, see:
https://citiprogram.org/

When students access the link and then for register an account with CITI, they will have the opportunity to sign up for the require course, Human Research Curriculum – Basic Course

Is IRB approval required?
A good place to start for general information is
http://rgs.usu.edu/irb/guidelines/

If students are unsure if IRB approval is needed, students can file a Request for Determination application in Protis. It’s short and is turned around in 24 hours. IRB will use this information to determine whether the IRB needs to review the project. See:
https://help-protis.usu.edu/request-determination

Chapter 2 of the Investigator Handbook outlines the definitions used to determine if a project requires IRB review.

The pre-review rubric may be particularly helpful as it outlines the information IRB looks for in a new submission.

Submitting the IRB application
When students submit an IRB application for a dissertation, IRB will need a copy of their proposal and signed committee approval form.

When a student joins an existing IRB approved project and wants to use data they collect for their dissertation, IRB will ask that the PI submit an amendment to the active protocol. This amendment should include the student’s proposal. Depending on how the student project fits into the existing protocol, IRB may require a new submission to specifically cover the student
If a student is using existing, de-identified data from a previous project that received IRB approval, IRB will require the submission of an exempt #4 application.

**In sum:**
- Determine if the dissertation project needs IRB approval
- If necessary, get CITI certification
  - Submit IRB application for the dissertation project. Note committee approval of the proposal must be obtained prior to this step.

If questions, please contact **IRB@usu.edu**