I. Approval of the December 10, 2015, Minutes
   January 21, 2016, CGS meeting was cancelled.

II. Welcome new members

II. Program and Curricular Changes (PCC) Report
   (Dr. Justin Blumenstiel, reporting)

   A. Curricular Changes for Approval

      NEW COURSES:  ABSC 746, GEOG 781, GIST 781, HWC 701, PSYC 890

      COURSE CHANGES:  ABSC 799, ABSC 802, ABSC 805, ABSC 861,
                        ABSC 862, ABSC 976, CLP 880, PHSX 731, PSYC 976,
                        PSYC 983, SPLH 799

      COURSE DEACTIVATION:  ABSC 796, SPLH 761

   B. Program Changes for Approval

      b. Changes to Existing Degree – ABSC-PhD : Applied Behavioral Science, Ph.D.
      c. Changes to Existing Degree – EAS-MA : Contemporary East Asian Studies, M.A.
      d. Changes to Existing Degree – PHSX-MS : Physics, M.S.
      e. Changes to Existing Degree – PHSX-PhD : Physics, Ph.D.
      f. Changes to Existing Degree – PSYC-PhD : Clinical Child Psychology, Ph.D.
      g. Changes to Existing Degree – SPLH-PhD : Child Language, Ph.D.

III. Old Business

IV. New Business
I. Approval of the December 10, 2015, Minutes

The University of Kansas
College of Liberal Arts & Sciences
COMMITTEE ON GRADUATE STUDIES
MINUTES
December 10, 2015, 11:00AM
STRONG HALL – ROOM 210

Members Present: Brian Ackley, Jane Barnette, Justin Blumenstiel, Paula Fite, Marni Kessler, Peter Ojiambo, Ric Steele (Chair), Nina Vyatkina, Alesia Woszidlo, Christina Amaro (Graduate Student), Carmen Torre Perez (Graduate Student)

Others in attendance: Nancy Hamilton (PSYC), Mark Jakubauskas (EVRN), Mike Zogry (REL), Kristine Latta (COGA), Cindy Lynn (COGA), and Jim Mielke (ex-officio)

The meeting was called to order by Dr. Steele at 11:05 a.m.

Minutes
A motion was made and seconded to approve the November 19, 2015, minutes of the Committee on Graduate Studies, as written. The motion was approved unanimously.

Report of the Proposals, Awards, and Scholarships (PAS) Subcommittee
(Dr. Bryan Ackley, reporting)

A motion was made and seconded to approve the new Graduate Certificate in Psychology: Health Psychology proposal with a friendly edit. The motion was approved unanimously.

Dr. Ackley introduced Dr. Hamilton, who responded on behalf of PSYC to questions from the CGS.

A motion was made and seconded to approve the new Graduate Certificate in Environmental Studies: Science Management proposal. The motion was approved unanimously.

Dr. Ackley introduced Dr. Jakubauskas, who responded on behalf of EVRN to questions from the CGS.

A motion was made and seconded to approve the new Graduate Certificate in Religious Studies: Religious Studies Graduate Certificate proposal. The motion was approved unanimously.

Dr. Ackley introduced Dr. Zogry, who responded on behalf of REL to questions from the CGS.

Report of the Program and Curricular Changes (PCC) Subcommittee
(Dr. Blumenstiel, reporting)

A motion was made and seconded to approve all curricular changes. The motion was approved unanimously.

A. Curricular Changes for Approval

NEW COURSE: CLP 948
II. Welcome new members

III. Program and Curricular Changes (PCC) Report
(Dr. Justin Blumenstiel, reporting)

C. Curricular Changes for Approval

NEW COURSES: ABSC 746, GEOG 781, GIST 781, HWC 701, PSYC 890

COURSE CHANGES: ABSC 799, ABSC 802, ABSC 805, ABSC 861,
ABSC 862, ABSC 976, CLP 880, PHSX 731, PSYC 976,
PSYC 983, SPLH 799

COURSE DEACTIVATION: ABSC 796, SPLH 761

D. Program Changes for Approval

b. Changes to Existing Degree – ABSC-PhD: Applied Behavioral Science, Ph.D.
c. Changes to Existing Degree – EAS-MA: Contemporary East Asian Studies, M.A.
d. Changes to Existing Degree – PHSX-MS: Physics, M.S.
e. Changes to Existing Degree – PHSX-PhD: Physics, Ph.D.
f. Changes to Existing Degree – PSYC-PhD: Clinical Child Psychology, Ph.D.
g. Changes to Existing Degree – SPLH-PhD: Child Language, Ph.D.

A. Curricular Changes for Approval

APPLIED BEHAVIORAL SCIENCE

CHANGE: NEW COURSE
ABSC 746 INTRODUCTION TO BEHAVIORAL SCIENCE (3)
This introductory course promotes knowledge and skill in analyzing behavioral
problems across a range of societal issues. Special consideration is given to
designing interventions, implementing, managing, and supervising applied
projects. Topics include the identification and selection of problems and target
populations, analysis of problems and goals, designing measurement systems,
developing interventions, and disseminating products from applied behavioral
research. SEM

Grading Basis: A-D(+/)-FI
Typically Offered Spring Semester, Odd Year
This course is required for the ABSC-MA and ABSC PhD
This course may not be repeated for credit

JUSTIFICATION:
The ABS Department's Graduate Studies Committee conducted a
curriculum mapping project and proposed restructuring required
coursework to comply with our accrediting and certification bodies.
Through this process, the faculty approved a new course to enrich student
learning while diversifying content in other required coursework. This
course fills important gaps in our curriculum.

[See program accompanying program change.]

CHANGE: DEACTIVATION
ABSC 796 LABORATORY IN BEHAVIORAL DEVELOPMENT AND MODIFICATION;
THE ANALYSIS OF BEHAVIOR I (3)
An introductory graduate laboratory course on the basic principles of behavior,
and related procedures for producing behavioral change, with nonhuman subjects.
The principles and procedures have special relevance to analogous processes in
child development, both normal and deviant. An ABA-accredited and BACB®
pre-approved course. (Formerly HDFL 796.)

JUSTIFICATION:
Upon the Department of Applied Behavioral Science Graduate Studies Committee curriculum mapping of its graduate training program, the committee found that the course content substantively overlapped with other coursework offered in the department. Along with other course modifications and the proposed addition of a new course (ABSC 746; pending approval), the content covered by ABSC 796 required for the department’s Association for Behavior Analysis International accreditation status and standing as an approved course sequence by our field’s major accrediting body (Behavior Analyst Certification Board), the content is better represented across a combination of courses, rather than offered solely in ABSC 796.

CHANGE: PREREQUISITE

ABSC 799 EXPERIMENTAL ANALYSIS OF BEHAVIOR (3) (OLD)
This course provides an in-depth description of the basic principles of operant and respondent conditioning in the context of basic non-human and human subjects research. Students will learn various theoretical approaches to understanding effects of reinforcement and punishment. Special attention will be provided to the role of verbal processes in the learning of verbally competent individuals. Students will gain substantive experience with identifying laboratory derived principles present in the literature that are relevant to application through assigned projects. Prerequisite: ABSC 796. SEM

ABSC 799 EXPERIMENTAL ANALYSIS OF BEHAVIOR (3) (NEW)
This course provides an in-depth description of the basic principles of operant and respondent conditioning in the context of basic non-human and human subjects research. Students will learn various theoretical approaches to understanding effects of reinforcement and punishment. Special attention will be provided to the role of verbal processes in the learning of verbally competent individuals. Students will gain substantive experience with identifying laboratory derived principles present in the literature that are relevant to application through assigned projects. Prerequisite: NONE. SEM

Grading Basis: A-D(+/-)FI
This course will be effective FA16 and is typically offered Every Semester
This course is required for the ABSC-MA
This course may not be repeated for credit

JUSTIFICATION:
ABSC 796 will no longer be taught.

CHANGE: PREREQUISITE

ABSC 802 BEHAVIOR ANALYSIS IN DEVELOPMENTAL DISABILITIES (3)
A graduate seminar that includes an overview of the behavioral characteristics of various developmental disabilities and examination of empirically-supported behavioral approaches to the study and treatment of developmental disabilities. Topics will include classification and etiology, motivation, methods for developing appropriate skills, assessment and treatment of behavior disorders, staff training, and legal and ethical issues related to treatment. Prerequisite: ABSC 796 and instructor permission. LEC

Grading Basis: A-D(+/)-FI
This course will be effective FA16 and is Not Typically Offered
This course is an elective
This course may not be repeated for credit

JUSTIFICATION:
Please remove ABSC 796 as a prerequisite because it will no longer be taught.

CHANGE: PREREQUISITE
ABSC 805 FUNCTIONAL BEHAVIORAL ASSESSMENT (3)
The strategies, tactics, and ethics of functional assessment are presented in the larger context of behavioral assessment (e.g., nomothetic and idiographic approaches). Research articles relevant to indirect, descriptive, and experimental functional assessment approaches and assessment-based interventions are carefully reviewed to determine the appropriate conditions for each type of assessment and intervention. (Formerly HDFL 805.) Prerequisite: ABSC 796 and instructor permission. LEC

Grading Basis: A-D(+/)-FI
This course will be effective FA16 and is typically offered Once a Year, Usually Spring
This course is a requirement for ABSC PhD
This course may not be repeated for credit

JUSTIFICATION:
This course is an existing degree requirement. We'd just like to change the prerequisite. ABSC 796 will no longer be taught.

CHANGE:  TITLE, DESCRIPTION
ABSC 861  PRINCIPLES OF APPLIED BEHAVIOR ANALYSIS (3)
(OLD)  This advanced course extends knowledge and skill in analyzing behavioral problems, designing interventions, and planning applied research projects. Topics include the selection of problems and target populations, analysis of problems and goals, designing measurement systems, developing interventions, and disseminating products from applied behavioral research. Students use examples from their own applied research. An ABA- accredited and BACB® pre-approved course. (Formerly HDFL 871.) LEC.

ABSC 861  PRINCIPLES OF BEHAVIOR ANALYSIS (3)
(NEW)  An advanced graduate course on the basic principles of behavior, and related procedures for producing behavioral change, with both human and nonhuman subjects. The principles and procedures are presented as fundamental elements of behavior change. An ABA- accredited and BACB® pre-approved course. (Formerly HDFL 871.)

Grading Basis: A-D(+-)FI
This course will be effective FA16 and is typically offered Every Two Years
This course is a requirement for ABSC-MA, ABSC-PhD
This course may not be repeated for credit

JUSTIFICATION:
How this course is required for our degree is not changing. The faculty feel strongly that a course on principles of behavior change be required. The new course content for 861 fulfills this requirement and fills the gap left by retiring ABSC 796.

Results of a curriculum mapping project by our Graduate Studies Committee indicated that our ability to meet external accrediting and certification standards would best be achieved through restructuring content coverage and retiring ABSC 796. Content previously covered by ABSC 796 will be distributed into ABSC 861 and the proposed ABSC 746 courses. The name change for 861 reflects this change.

CHANGE:  PREREQUISITE
ABSC 862  BEHAVIORAL COMMUNITY PSYCHOLOGY (3)
BEHAVIORAL COMMUNITY PSYCHOLOGY (3)

A seminar that provides an overview of the history and origin of behavioral community psychology. The course will examine the development and future of behavioral community psychology as an integration of two sub-disciplines, applied behavior analysis and community psychology. The course will provide an integrated review of empirically-based behavioral interventions applied in community-based settings. The course is offered at the 500 and 800 levels with additional assignments required at the 800-level. Prerequisite: ABSC 796, or ABSC 710, or instructor permission. SEM.

Grading Basis: A-D(+-)FI

This course will be effective FA16 and will be taught Every other year in the Spring Semester
This course is an elective
This course may not be repeated for credit

JUSTIFICATION:
ABSC 796 will no longer be taught.

CHANGE: CROSSLISTED COURSE EFFECTIVE TERM HOURS DESIGNATION

ABSC 976 THERAPEUTIC INTERVENTIONS WITH CHILDREN (3-5)

Clinical approaches to the therapeutic treatment of children with special emphasis on research findings and laboratory (practicum) experience. A survey of relationship therapies, operant strategies, system approaches, parent education and play therapy by the right therapist for a specific child with a particular problem. Prerequisites: Instructor permission. FLD.

This course is typically offered Only Fall Semester

ABSC 976 THERAPEUTIC INTERVENTIONS WITH CHILDREN (3)

Clinical approaches to the therapeutic treatment of children with special emphasis on research findings and laboratory (practicum) experience. A survey of relationship therapies, operant strategies, system approaches, parent education and play therapy by the right therapist for a specific child with a particular problem. Prerequisites: Instructor permission. LEC

Grading Basis: A-D(+-)FI
This course will be effective FA16 and is typically offered Spring Semester, Even Years
This course is a required core course for Ph.D. in Clinical Child Psychology.
This course may not be repeated for credit
Same as PSYC 976.

JUSTIFICATION:
This is a correction. Course is a lecture course, offered for three credits.
This has appeared incorrectly in the past. PSYC 976 will be updated as well.

CHILD LANGUAGE DOCTORAL PROGRAM

CHANGE: COURSE EFFECTIVE DATE
CLP 880 SEMINAR IN CHILD LANGUAGE (1-3)
(OLD) A seminar devoted to factors affecting children's language acquisition and
language impairments, with some attention to theoretical formulations, causal
pathways and mechanisms of change. Topics may vary. Prerequisites: Consent of
instructor. SEM

This course will be effective SP16 and is typically offered Once a Year, Usually
SPRING
This course is an elective

CLP 880 SEMINAR IN CHILD LANGUAGE (1-3)
(NEW) A seminar devoted to factors affecting children's language acquisition and
language impairments, with some attention to theoretical formulations, causal
pathways and mechanisms of change. Topics may vary. Prerequisites: Consent of
instructor. SEM

This course will be effective FA16 and is typically offered Once a Year, Usually
Fall
This course is an elective

JUSTIFICATION:
CLP 880 is to be offered in Fall semesters rather than Spring as previously
submitted.

GEOGRAPHY

CHANGE: NEW CROSSTLISTED COURSE
GEOG 781 ENVIRONMENTAL GEOPOLITICS (3)
This course examines how human relationships with the biophysical world are
politicized. Examines key contributions to debates surrounding environmental
security, resource conflicts, and related issues, as well as geopolitical assumptions
on which these debates build. This course is a more advanced and rigorous version of the undergraduate version of this course (GEOG 371/EVRN 371). It is not open to students who have taken or are enrolled in GEOG 371/EVRN 371, Environmental Geopolitics. LEC

Grading Basis: A-D(+/-)FI
This course will be effective SP17 and will be offered Once a Year, Usually Spring
This course may not be repeated for credit
Crosslisted with GIST 781

JUSTIFICATION
This course has been taught in the Interagency Studies Program (ISP) of the Center for Global and International Studies for 4 years with a generic "GIST 750" listing. Most students who enroll in this class are US Army Special Forces Officers, but other students may enroll with instructor permission. We are seeking permanent numbers for this course in both GEOG and GIST.

GLOBAL AND INTERNATIONAL STUDIES

CHANGE: NEW CROSSLISTED COURSE
GIST 781 ENVIROMENTAL GEOPOLITICS (3)
This course examines how human relationships with the biophysical world are politicized. Examines key contributions to debates surrounding environmental security, resource conflicts, and related issues, as well as geopolitical assumptions on which these debates build. This course is a more advanced and rigorous version of the undergraduate version of this course (GEOG 371/EVRN 371). It is not open to students who have taken or are enrolled in GEOG 371/EVRN 371, Environmental Geopolitics. LEC

Grading Basis: A-D(+/-)FI
This course will be effective SP17 and will be offered Once a Year, Usually Spring
This course may not be repeated for credit
Crosslisted with GEOG 781

JUSTIFICATION
This course has been taught in the Interagency Studies Program (ISP) of the Center for Global and International Studies for 4 years with a generic "GIST 750" listing. Most students who enroll in this class are US Army Special Forces Officers, but other students may enroll with instructor permission. We are seeking permanent numbers for this course in both GEOG and GIST.
**HUMANITIES**

**CHANGE: NEW COURSE**

**HUM 701** Practicum in Teaching Humanities and Western Civilization (1)
Discussion of matters relating to teaching in Humanities and Western Civilization courses. Sections may vary according to course topics. Required of all GTAs in the first year of teaching in the Program or for the first semester of a new teaching assignment. Does not count towards completion of coursework for the M.A. or Ph.D. in any field or department. Open only to GTAs employed by the Humanities and Western Civilization Program.

Grading Basis: S, U, PI
This course will be effective FA16 and is typically offered Twice a Year, Fall and Spring
This course is an elective
This course may be repeated for credit

**JUSTIFICATION:**
This serves as a training course for GTAs employed by the Humanities and Western Civilization Program and addresses a number of pedagogical issues including teaching methodologies and instructional techniques.

**PHYSICS AND ASTRONOMY**

**CHANGE: PREREQUISITE**

**PHSX 731** MOLECULAR BIOPHYSICS (3)
Methods and concepts in contemporary molecular biophysics are discussed. Particular emphasis is placed on the thermodynamics of macromolecular interactions and quantitative methods of data analysis. Basic enzymology and biophysical spectroscopy will also be reviewed. Prerequisite: PHSX 212, MATH 122, and either CHEM 135 or CHEM 188. LEC

**PHSX 731** MOLECULAR BIOPHYSICS (3)
Methods and concepts in contemporary molecular biophysics are discussed. Particular emphasis is placed on the thermodynamics of macromolecular interactions and quantitative methods of data analysis. Basic enzymology and biophysical spectroscopy will also be reviewed. Prerequisite: PHSX 212, MATH 125, and either CHEM 135 or CHEM 175. LEC

Grading Basis: A-D(+/-)FI
This course will be effective SU16 and is typically offered Spring Semester, Odd Year
This course is an elective
This course may not be repeated for credit
JUSTIFICATION:
This update is being made to align the prerequisites with the actual courses being offered by Math and Chemistry. We thought this was being done automatically when the programs were realigning their courses, as our other courses are correct, but it seems this one was missed.

PSYCHOLOGY

CHANGE: NEW COURSE

PSYC 890  FOUNDATIONS OF THE MIND (3)
Advances in cognitive psychology have illuminated the way in which we understand mind and mental processes and have the power to affect how we conduct our lives as moral beings (e.g., Are human beings alone in the animal kingdom in possessing minds?). In this graduate course, we will cover key historical and social events that shaped the field; when and how cognitive psychology became a science; and future directions of studying the mind, especially in light of cognitive neuroscience. Students will analyze and critically evaluate cognitive psychological theory, empirical research, and practice in a historical context, as well as develop ideas, critiques, and conclusions of their own on the accomplishments and prospects of the science of cognitive psychology. Readings and discussion include an analysis of significant theoretical, historical, and empirical work of topics in cognitive psychology, as well as the cognitive and brain sciences more generally. LEC

Grading Basis: A-D(+/-)FI
This course will be effective FA16 and is typically offered Once a Year, Usually Fall
This course is an elective
This course may not be repeated for credit

JUSTIFICATION:
We are proposing this new course to serve the objectives of our revised CBS program curriculum. As the past course on history and systems was recently revised by the clinical program, it does not directly serve the objectives of the CBS program any longer.

CHANGE: CROSSTO LISTED COURSE EFFECTIVE TERM HOURS DESIGNATION

PSYC 976  THERAPEUTIC INTERVENTIONS WITH CHILDREN (3-5)
(OLD)
Clinical approaches to the therapeutic treatment of children with special emphasis on research findings and laboratory (practicum) experience. A survey of relationship therapies, operant strategies, system approaches, parent education and play therapy by the right therapist for a specific child with a particular problem. Prerequisites: Instructor permission. FLD.

This course is typically offered Only Fall Semester
PSYC 976 (NEW) THERAPEUTIC INTERVENTIONS WITH CHILDREN (3)
Clinical approaches to the therapeutic treatment of children with special emphasis on research findings and laboratory (practicum) experience. A survey of relationship therapies, operant strategies, system approaches, parent education and play therapy by the right therapist for a specific child with a particular problem. Prerequisites: Instructor permission. LEC

Grading Basis: A-D(+/-)FI
This course is typically offered Spring Semester, Even Years
This course is a required core course for Ph.D. in Clinical Child Psychology.
This course may not be repeated for credit
Same as ABSC 976.

JUSTIFICATION:
This is a correction. Course is a lecture course, offered for three credits. This has appeared incorrectly in the past. ABSC 976 will be updated as well.

CHANGE: TITLE DESCRIPTION
PSYC 983 METHODOLOGY (3)
Inferential problems in experimental psychology. Prerequisite: PSYC 790 and PSYC 791 or consent of instructor. LEC.

PSYC 983 METHODS & PROFESSIONAL ISSUES IN THE COGNITIVE & BRAIN SCIENCES (3)
Methodology, inferential problems, and professional issues in the cognitive and brain sciences. Prerequisite: PSYC 790 and PSYC 791 or consent of instructor. LEC.

Grading Basis: A-D(+/-)FI
This course will be effective SU16 and is typically offered Only Fall Semester
This course is an elective
This course may not be repeated for credit

JUSTIFICATION:
The rationale for the change is that the name of the course should reflect its content. We have updated the objectives of the course in light of changes in the field of experimental psychology, thus, we need the course name & description to reflect the updated content of the course.

SPEECH, LANGUAGE, HEARING

CHANGE: DEACTIVATE
SPLH 761 AURAL REHABILITATION (3)
(OLD) Study of the communication problems associated with hearing loss. Introduction to aural habilitative intervention related to speech, language, and academic achievement in children with early hearing loss, as well as, communication strategies training for adults with acquired hearing loss. LEC

Not Typically Offered

JUSTIFICATION:
This course is no longer needed and has not been taught for a number of years.

CHANGE: ADD CROSSLISTING
SPLH 799 Proseminar in Child Language (3)
A review and discussion of current issues in children's language acquisition. May be repeated for credit. Students are graded S/F. (Formerly HDFL 797)

Effective Term Fall 2016
Same as ABSC 797, LING 799 PSYC 799, and CLP 799

JUSTIFICATION:
Correcting Courseleaf system to include CLP new course prefix.

B. Program Changes for Approval

b. Changes to Existing Degree – ABSC-PhD : Applied Behavioral Science, Ph.D.
c. Changes to Existing Degree – EAS-MA : Contemporary East Asian Studies, M.A.
d. Changes to Existing Degree – PHSX-MS : Physics, M.S.
e. Changes to Existing Degree – PHSX-PhD : Physics, Ph.D.
f. Changes to Existing Degree – PSYC-PhD : Clinical Child Psychology, Ph.D.
g. Changes to Existing Degree – SPLH-PhD : Child Language, Ph.D.


CHANGE COURSE REQUIREMENTS

(OLD) Current

M.A. in Applied Behavioral Science Degree Requirements

The M.A. degree requires 33 credit hours: 18 hours in 6 content areas, 3 hours in a practicum, and research and elective courses. Students also must conduct, write up, and orally defend an empirically based thesis. Course work is required in each of the following areas:
1. **Ethical, Legal, and Professional Issues** (3). Instruction in ethical principles in the conduct of research (e.g., informed consent, data analysis), legal issues in professional conduct (e.g., plagiarism, copyright), and professional skills (e.g., journal reviewing, professional communication). Ethical, Legal, and Professional Issues in Applied Behavioral Science (**ABSC 841**)

2. **Principles of Behavior I** (3). The science of behavior (e.g., observation, experimentation), laboratory methods, basic behavioral principles (e.g., reinforcement, stimulus control), and their applications (e.g., early childhood, disabilities). **ABSC 796**

3. **Research Methods I** (3). Strategies and tactics of scientific research (e.g., objectivity, empiricism), the logic of experimentation (e.g., validity, reliability), measurement and direct observation, and experimental designs for single-subject and time-series analyses. **ABSC 735**

4. **Conceptual Foundations I** (3). The history and philosophy of behavioral science, contemporary advances in basic research for application, the analysis of everyday behavior (e.g., cognition, emotion), and current issues in the discipline and the profession (e.g., relations between basic and applied research). **ABSC 800**

5. **Applied Behavior Analysis I** (3). The characteristics of applied behavioral research (assessment, analysis, intervention, evaluation), intervention research (clinical, community), applied procedures and programs, social validity, and ethical issues. **ABSC 861**

6. Experimental Analysis of Behavior (**ABSC 799**)

7. **Research or Intervention Practicum** (ABSC 799). A supervised practicum course in
   1. basic or applied research or
   2. behavioral interventions.

This course work also satisfies 6 of the course requirements and the thesis requirement in the doctoral program.

Master’s students are required to present the results of their research at a department professional seminar meeting. The presentation is comparable to what would be presented at a professional conference. Students answer questions from their peers and the faculty in attendance.

**(New) Proposed

**M.A. in Applied Behavioral Science Degree Requirements**

The M.A. degree requires 33 credit hours: 18 hours in 6 content areas, 3 hours in a practicum, and research and elective courses. Students also must conduct, write up, and orally defend an empirically based thesis. Course work is required in each of the following areas:

1. **Ethical, Legal, and Professional Issues** (3). Instruction in ethical principles in the conduct of research (e.g., informed consent, data analysis), legal issues in professional conduct (e.g., plagiarism, copyright), and professional skills (e.g., journal reviewing, professional communication). Ethical, Legal, and Professional Issues in Applied Behavioral Science (**ABSC 841**).
2. *Research Methods I* (3). Strategies and tactics of scientific research (e.g., objectivity, empiricism), the logic of experimentation (e.g., validity, reliability), measurement and direct observation, and experimental designs for single-subject and time-series analyses. 
   **ABSC 735**

3. *Conceptual Foundations I* (3). The history and philosophy of behavioral science, contemporary advances in basic research for application, the analysis of everyday behavior (e.g., cognition, emotion), and current issues in the discipline and the profession (e.g., relations between basic and applied research). 
   **ABSC 800**

4. *Applied Behavior Analysis I* (3). The characteristics of applied behavioral research (assessment, analysis, intervention, evaluation), intervention research (clinical, community), applied procedures and programs, social validity, and ethical issues. 
   **ABSC 746**

5. Experimental Analysis of Behavior (**ABSC 799**)

6. *Research or Intervention Practicum* (3). A supervised practicum course in
   - 1. basic or applied research or
   - 2. behavioral interventions.

This course work also satisfies 6 of the course requirements and the thesis requirement in the doctoral program.

Master’s students are required to present the results of their research at a department professional seminar meeting. The presentation is comparable to what would be presented at a professional conference. Students answer questions from their peers and the faculty in attendance.

**JUSTIFICATION:**
As a result of a curriculum mapping meeting, we are changing course content to fill curricular gaps. These modifications will also allow us to meet necessary course requirements for external accrediting bodies. Remove ABSC 861 as fulfilling Applied Behavior Analysis I. Add ABSC 746 as fulfilling Applied Behavior Analysis I.

**b. Changes to Existing Degree – ABSC-PhD : Applied Behavioral Science, Ph.D.**

**CHANGE COURSE REQUIREMENTS TABLE**

(OLD) Current

**Ph.D. in Behavioral Psychology Degree Requirements**

**Course Requirements**

The doctoral degree program requires students to take 1 course in 9 areas, along with 2 practicum courses. The areas and the practicum courses are:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSC 796</td>
<td>Laboratory in Behavioral Development and Modification: The Analysis of Behavior I</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 735</td>
<td>Within Subjects Research Methodology and Direct Observation</td>
<td>3</td>
</tr>
</tbody>
</table>
### Ph.D. in Behavioral Psychology Degree Requirements

#### Course Requirements

The doctoral degree program requires students to take 1 course in 9 areas, along with 2 practicum courses. The areas and the practicum courses are:

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<td>Conceptual Foundations of Applied Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 841</td>
<td>Ethical, Legal, and Professional Issues in Applied Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 861</td>
<td>Applied Behavior Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 799</td>
<td>Experimental Analysis of Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 831</td>
<td>Science of Human Behavior</td>
<td></td>
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<tr>
<td>ABSC 862</td>
<td>Behavioral Community Psychology</td>
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<td>ABSC 931</td>
<td>Verbal Behavior</td>
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<td>ABSC 951</td>
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<td>History of Behavior Analysis</td>
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<td>ABSC 710</td>
<td>Community Health and Development</td>
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<td>ABSC 805</td>
<td>Functional Behavioral Assessment</td>
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<td>ABSC 940</td>
<td>Measurement and Experimental Design for Applied Research</td>
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<tr>
<td>ABSC 788</td>
<td>Designing Early Education Environments</td>
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</tr>
<tr>
<td>ABSC 802</td>
<td>Behavior Analysis in Developmental Disabilities</td>
<td></td>
</tr>
<tr>
<td>ABSC 865</td>
<td>Applied Behavior Analysis in Complex Organizations</td>
<td></td>
</tr>
<tr>
<td>ABSC 890</td>
<td>Seminar in: _____</td>
<td></td>
</tr>
<tr>
<td>ABSC 961</td>
<td>Advanced Seminar in Applied Behavior Analysis: _____</td>
<td></td>
</tr>
<tr>
<td>ABSC 936</td>
<td>Quantitative Analysis of Behavior</td>
<td></td>
</tr>
<tr>
<td>PRVM 800</td>
<td>Principles of Epidemiology</td>
<td></td>
</tr>
<tr>
<td>BIOS 704</td>
<td>Principles of Statistics in Public Health</td>
<td></td>
</tr>
<tr>
<td>BIOS 714</td>
<td>Fundamentals of Biostatistics I</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td></td>
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<tr>
<td>ABSC 702</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABSC 893</td>
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</tr>
</tbody>
</table>

(NEW) Proposed

### Experimental Analysis of Behavior II

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ABSC 936</td>
<td>Quantitative Analysis of Behavior</td>
</tr>
<tr>
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</tr>
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</tr>
</tbody>
</table>

Any course that provides students the opportunity to develop competence in specialized areas of behavioral investigation. Course numbers may vary (e.g., ABSC 702, ABSC 893, or others).
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSC 796</td>
<td>Laboratory in Behavioral Development and Modification: The Analysis of Behavior I</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 735</td>
<td>Within Subjects Research Methodology and Direct Observation</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 800</td>
<td>Conceptual Foundations of Applied Behavioral Science</td>
<td>3</td>
</tr>
<tr>
<td>ABSC 841</td>
<td>Ethical, Legal, and Professional Issues in Applied Behavioral Science</td>
<td>3</td>
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<tr>
<td>ABSC 861</td>
<td>Principles of Behavior Analysis</td>
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<tr>
<td>ABSC 799</td>
<td>Experimental Analysis of Behavior</td>
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<tr>
<td>ABSC 746</td>
<td>Conceptual Foundations II</td>
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<tr>
<td>ABSC 831</td>
<td>Science of Human Behavior</td>
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<tr>
<td>ABSC 862</td>
<td>Behavioral Community Psychology</td>
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<td>ABSC 931</td>
<td>Verbal Behavior</td>
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<tr>
<td>ABSC 951</td>
<td>The Analysis of Cognition</td>
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<td>ABSC 981</td>
<td>History of Behavior Analysis</td>
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<tr>
<td></td>
<td>Research Methods II</td>
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<tr>
<td>ABSC 710</td>
<td>Community Health and Development</td>
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<td>ABSC 805</td>
<td>Functional Behavioral Assessment</td>
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<tr>
<td>ABSC 940</td>
<td>Measurement and Experimental Design for Applied Research</td>
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<tr>
<td></td>
<td>Applied Behavior Analysis II</td>
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<tr>
<td>ABSC 788</td>
<td>Designing Early Education Environments</td>
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</tr>
<tr>
<td>ABSC 802</td>
<td>Behavior Analysis in Developmental Disabilities</td>
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</tr>
<tr>
<td>ABSC 865</td>
<td>Applied Behavior Analysis in Complex Organizations</td>
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<tr>
<td>ABSC 890</td>
<td>Seminar in: ____</td>
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<td></td>
<td>specialized areas of behavioral investigation. Course numbers may vary (e.g.,</td>
</tr>
<tr>
<td></td>
<td>ABSC 702, ABSC 893, or others)</td>
</tr>
</tbody>
</table>

**JUSTIFICATION:**

Please approve the removal of ABSC 796 because it will no longer be taught. Add ABSC 746 as a requirement. Remove ABSC 861, Add ABSC 746.
As a result of a curriculum mapping meeting, we are changing course content to fill curricular gaps. These modifications will also allow us to meet necessary course requirements for external accrediting bodies.

c. Changes to Existing Degree – EAS-MA : Contemporary East Asian Studies, M.A.

ADD MA EXAM REQUIREMENT

(OLD) Current

All candidates for the M.A. degree are required to complete 30 semester hours of graduate credit, including an introductory course, a social science research methods course, and a research seminar, at a satisfactory level, and to demonstrate proficiency in an East Asian Language at either the second or third level, depending on the concentration.

(NEW) Proposed

All candidates for the M.A. degree are required to complete 30 semester hours of graduate credit, including an introductory course, a social science research methods course, and a research seminar, at a satisfactory level, and to demonstrate proficiency in an East Asian Language at either the second or third level, depending on the concentration. In addition to completing required coursework, students must prepare at least one research paper and successfully pass an oral defense of that paper to the satisfaction of an M. A. examination committee.

JUSTIFICATION
Added the MA exam requirement to the degree requirements.

d. Changes to Existing Degree – PHSX-MS : Physics, M.S.

(OLD) Current

**M.S. Degree in Physics**

The departmental web page with some additional information, e.g., milestones, can be found at [http://www.physics.ku.edu/~physics/graduate/about.shtml](http://www.physics.ku.edu/~physics/graduate/about.shtml)

Candidates must complete a minimum of 30 credit hours of advanced lecture courses (numbered 500 or above) in physics and related subjects within a period of 7 years. Program requirements include

1. An undergraduate knowledge of physics. This must be certified by the department to be at an advanced undergraduate level (600-level KU courses). The certification must be achieved within 12 months (extension possible with recommendation of the graduate admission committee) of entering the program and may require additional coursework. Extension is possible with recommendation of the graduate admission committee. Certification can be achieved in several ways:
1. A GRE physics score greater than or equal to 650; or
2. The determination by the graduate director and graduate advisor, based on the diagnostic exam given on entering the program combined with the student's undergraduate record, that the student understands all major elements of undergraduate physics; or
3. Successful completion with grade of B or better on all undergraduate courses that the graduate director and/or advisor recommends based on the results of part b. above. The student who has not succeeded in certifying his or her undergraduate physics knowledge in 1 of the above 3 ways could, within 12 months of starting the program, petition the Graduate Committee for an oral exam on undergraduate physics. The oral exam will be administered by a committee of 6 faculty members assigned by the department.
4. A candidate for a Master's or Ph.D. degree who has not had the equivalent of 6 credit hours of advanced undergraduate laboratory course work (Junior/Senior level) is required to take 1 of the 3 advanced laboratory courses offered in the Department.

<table>
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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>PHSX 516</td>
<td>Physical Measurements</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 536</td>
<td>Electronic Circuit Measurement and Design</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 601</td>
<td>Design of Physical and Electronic Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

2. 4 basic courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHSX 711</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 718</td>
<td>Mathematical Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 821</td>
<td>Classical Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 831</td>
<td>Electrodynamics I</td>
<td>3</td>
</tr>
</tbody>
</table>

3. 2 additional courses chosen from:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHSX 721</td>
<td>Chaotic Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 731</td>
<td>Molecular Biophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 741</td>
<td>Nuclear Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 761</td>
<td>Elementary Particles I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 781</td>
<td>Solid State Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 793</td>
<td>Physical Cosmology</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 792</td>
<td>Topics in Advanced Astrophysics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 795</td>
<td>Space Plasma Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 815</td>
<td>Computational Methods in Physical Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>
4. A minimum of 2 hours in PHSX 899 Master’s Research/Thesis is required, with a maximum of 6 hours that count toward the master’s degree. Ordinarily no more than 2 hours will be allowed unless a thesis or written report is presented.

5. The remaining 6 to 10 hours of advanced electives must be either advanced lecture courses or advanced undergraduate laboratory courses. (This proviso excludes seminars and special problems courses.)

Please go to this website to see the University's policy on time limits:
https://documents.ku.edu/policies/Graduate_Studies/maprogramtimeconstraints.htm

(NEW) Proposed

**M.S. Degree in Physics**

The departmental web page with some additional information, e.g., milestones, can be found at http://www.physics.ku.edu/~physics/graduate/about.shtml

Candidates must complete a minimum of 30 credit hours of advanced lecture courses (numbered 500 or above) in physics and related subjects within a period of 7 years. Credit is not given to students who take courses at a lower level after having completed similar upper level courses (as determined by the department) with a grade of B- or higher. Program requirements include

1. An undergraduate knowledge of physics. This must be certified by the department to be at an advanced undergraduate level (600-level KU courses). The certification must be achieved within 12 months (extension possible with recommendation of the graduate admission committee) of entering the program and may require additional coursework. Extension is possible with recommendation of the graduate admission committee. Certification can be achieved in several ways:
   1. A GRE physics score greater than or equal to 650; or
   2. The determination by the graduate director and graduate advisor, based on the diagnostic exam given on entering the program combined with the student's undergraduate record, that the student understands all major elements of undergraduate physics; or
   3. Successful completion with grade of B or better on all undergraduate courses that the graduate director and/or advisor recommends based on the results of part b. above. The student who has not succeeded in certifying his or her undergraduate physics knowledge in 1 of the above 3 ways could, within 12 months of starting the program, petition the Graduate Committee for an oral exam on undergraduate physics. The oral exam will be administered by a committee of 6 faculty members assigned by the department.
   4. A candidate for a Master's or Ph.D. degree who has not had the equivalent of 6 credit hours of advanced undergraduate laboratory course work (Junior/Senior level) is required to take 1 of the 3 advanced laboratory courses offered in the Department.

| PHSX 516 | Physical Measurements | 4 |
2. 4 basic courses:

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<th>Credit</th>
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</thead>
<tbody>
<tr>
<td>PHSX 711</td>
<td>Quantum Mechanics I</td>
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<tr>
<td>PHSX 831</td>
<td>Electrodynamics I</td>
<td>3</td>
</tr>
</tbody>
</table>

3. 2 additional courses chosen from:

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<th>Title</th>
<th>Credit</th>
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<tbody>
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<td>Chaotic Dynamics</td>
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<tr>
<td>PHSX 815</td>
<td>Computational Methods in Physical Sciences</td>
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4. A minimum of 2 hours in PHSX 899 Master’s Research/Thesis is required, with a maximum of 6 hours that count toward the master’s degree. Ordinarily, no more than 2-3 hours will be allowed unless directed towards completion of a thesis on original research or a written report is presented. Students must consult with the research advisor before enrolling in more than 3 credit hours.

5. The remaining 6 to 10 hours of advanced electives must be either advanced lecture courses or advanced undergraduate laboratory courses. (This proviso excludes seminars and special problems courses.)

The departmental web page with some additional information, e.g., milestones, can be found at http://www.physics.ku.edu/~physics/graduate/about.shtml

Please go to this website to see the University's policy on time limits: https://documents.ku.edu/policies/Graduate_Studies/maprogramtimeconstraints.htm

JUSTIFICATION
The two changes are to clarify confusing areas and to close loopholes that some students have tried to exploit.
e. Changes to Existing Degree – PHSX-PhD : Physics, Ph.D.

(OLD) Current

**Ph.D. Degree Requirements**

The departmental web page with some additional information, e.g., milestones, can be found online.

**Residence**

*To become a Ph.D. candidate, i.e. to take the comprehensive exam:*

The student must spend at least 2 semesters, which may include 1 summer session, in resident study at the University of Kansas.

*To earn a Ph.D.:*

The student must spend at least the equivalent of 3 full academic years in graduate study at this or another approved institution or laboratory. During this period of residence, the student must be involved full-time in academic or professional pursuits, which may include an appointment for teaching or research if the teaching/research is directed specifically toward the student's degree objectives.

Graduate students with half-time assistantships usually require at least 4 years to complete all requirements. Maximum enrollment for students with no other departmental obligations is 16 hours a semester. In addition to satisfying the residence requirement, a student with a half-time assistantship must be enrolled for at least 6 hours each semester. A maximum of 12 hours is permitted if the student’s duties consist of research that partially fulfills degree requirements. A fellowship holder or full-time student with private support must be enrolled for at least 9 hours.

**Time Limits**

See the [University's policy on time limits](#).

**Graduate Teaching Assistantship Eligibility**

To be eligible for teaching assistantships, all graduate students who are not native speakers of English must achieve a minimum score of 50 on the SPEAK test. International students must pass an oral examination to demonstrate English fluency. Students who fail this examination should take courses from the Applied English Center.

Every student who receives a GTA appointment will be required to complete PHSX 702 Introductory Physics Pedagogy at the first offering of the course starting with the semester of the student’s initial GTA appointment. Failure to complete this class at the first opportunity may affect consideration for subsequent GTA appointments.
Preliminary Candidacy

To be admitted to preliminary candidacy, each graduate student must satisfy department requirements:

1. Undergraduate knowledge of physics must be certified at the department undergraduate level (600-level KU courses). The ways to achieve this certification are outlined above under Course Requirements.
   A candidate for a Master's or Ph.D. degree who has not had the equivalent of 6 credit hours of advanced undergraduate laboratory course work (Junior/Senior level) is required to take 1 of the 3 advanced laboratory courses offered in the department.

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<td>PHSX 601</td>
<td>Design of Physical and Electronic Systems</td>
<td>4</td>
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</table>

2. Achieve a minimum core course grade point average of 3.2. The core course GPA is computed from the following 5 equally weighted elements:
   o Grade obtained in PHSX 711 Quantum Mechanics I
   o Grade obtained in PHSX 811 Quantum Mechanics II
   o Grade obtained in PHSX 821 Classical Mechanics
   o Grade obtained in PHSX 831 Electrodynamics I

5. Average grade of 2 other PHSX lecture courses numbered 700 or higher, excluding PHSX 815 (computational physics) and PHSX 717 (graduate seminar).
   a. Students may repeat 1 of the 4 core courses (PHSX 711, PHSX 811, PHSX 821, and PHSX 831) once for the purpose of improving the core GPA. In calculating the core GPA, the Department will use only the better of the 2 grades.

6. The 2 "other PHSX lecture courses numbered 700 or higher" must be taken at KU, but students entering with graduate credit from other institutions may petition the Graduate Committee for transfer credit for any of the 4 named core courses. For the purposes of the core GPA, grades (of "B" or better) from the previous institution may be used for at most 3 of the 4 named courses. For the remaining course the student must obtain written certification of "B" performance or better from the instructor of the course at KU. Such certification may be obtained by taking the course, taking the final exam of the course (if there is one), or other means which the instructor may determine. An appropriate higher-level course may also be used to obtain certification in a core course (for example for PHSX 711 or PHSX 811, PHSX 931 for PHSX 831.)

7. Graduate students are normally expected to complete all core courses by the end of their second year of enrollment. Students who are required to complete an undergraduate physics certificate have 3 years to finish their core courses. Extensive Applied English Center (AEC) courses, prolonged illness, or extended military service might provide exceptional circumstances.
**Decision on Preliminary Candidacy**

Once Undergraduate requirements have been certified and sufficient information has been received regarding the required courses, the Graduate Committee will decide whether or not to admit the student to preliminary candidacy. This decision will be based upon the certification and on their core course GPA. The Graduate Committee Chair will report their decision to the Graduate Faculty.

**Course Requirements**

What follows are the default set of requirements for all Ph.D. candidates.

1. An undergraduate knowledge of physics. This must be certified by the department to be at an advanced undergraduate level (600-level KU courses). The certification must be achieved within 12 months (extension possible with recommendation of the graduate admission committee) of entering the program and may require additional coursework. Extension is possible with recommendation of the graduate admission committee. Certification can be achieved in several ways:
   1. A GRE physics score greater than or equal to 650; or
   2. THE DETERMINATION BY THE GRADUATE DIRECTOR AND GRADUATE ADVISOR, BASED ON the diagnostic exam given on entering the program combined with the student's undergraduate record, that the student understands all major elements of undergraduate physics; or
   3. Successful completion with grade of B or better on all undergraduate courses that the graduate director and/or advisor recommends based on the results of (2). The student who has not succeeded in certifying their undergraduate physics knowledge in 1 of the above 3 ways could, within 12 months of starting the program, petition the Graduate Committee for an oral exam on undergraduate physics. The oral exam will be administered by a committee of 6 faculty members assigned by the department.
   4. A candidate for a Master's or Ph.D. degree who has not had the equivalent of 6 credit hours of advanced undergraduate laboratory course work (Junior/Senior level) is required to take 1 of the 3 advanced laboratory courses offered in the Department.

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<tr>
<td>PHSX 601</td>
<td>Design of Physical and Electronic Systems</td>
<td>4</td>
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</table>

2. A total of 11 advanced lecture courses (33 hours) is required. In addition, 1 hour of PHSX 700 Colloquium, 1 hour of PHSX 717 Graduate Seminar, and (for GTAs only) one hour of PHSX 702 Introduction to Physics Pedagogy are required.

3. Core courses:

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</thead>
<tbody>
<tr>
<td>PHSX 711</td>
<td>Quantum Mechanics I</td>
<td>3</td>
</tr>
</tbody>
</table>
4. Other required courses:

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<tr>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHSX 718</td>
<td>Mathematical Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 815</td>
<td>Computational Methods in Physical Sciences (satisfies Research Skills requirement)</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 871</td>
<td>Statistical Physics I</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 931</td>
<td>Electrodynamics II</td>
<td>3</td>
</tr>
</tbody>
</table>

5. 2 additional PHSX lecture courses numbered 700 or above. This excludes PHSX 815 (computational physics) and PHSX 717 (graduate seminar). The 2 courses must be in different sub-fields of physics and they may not be used to simultaneously satisfy other degree requirements in force. (For example, if PHSX 911 is being used to satisfy the PHSX 811 core requirement, it may not also be used to satisfy the requirement for 2 lecture courses at the 700 level or above.)

6. 1 additional advanced PHSX lecture course (numbered 800 or above; excluding PHSX 815)

7. 1 credit hour of Colloquium is required (PHSX 700). See “Colloquium and Graduate Seminar for an explanation.”

8. All graduate students, after their first semester, will deliver at least 1 oral presentation per semester. See “Communication Skills” for an explanation.

The courses listed above comprise the Department course requirements common to all students except those pursuing a multi-disciplinary plan of study, which is described below. There is no foreign language requirement. Subsequent work, consisting of advanced courses in appropriate fields and seminars, will be selected by the student and the advisor on the basis of the student's need and intended field of specialization. There is no prescribed minimum number of hours for the Ph.D. degree. The student's dissertation committee will determine the adequacy of the student's courses and seminars and will specify the total course requirements. Neither the Graduate School nor the Department has a requirement for a minor.

Students who wish to pursue a more multidisciplinary plan of study may incorporate coursework from up to 2 other natural science, engineering, or mathematics (SEM) departments at KU by substituting non PHSX courses at the 600 level and above from these other disciplines for the 3 additional electives described in items c) and d) above. The research advisor, or in the absence of one, the Departmental Graduate Advisor (who is the default advisor for all students without a research advisor), shall approve all such outside course choices and provide documentation for the student file on the approved courses and their rationale.

Students who wish to take courses in the social sciences, humanities, or professional schools must submit a detailed plan of study that must be approved by the Physics and Astronomy
Graduate Committee. Please note that while these unique plans involving non SEM fields will be considered, there is no guarantee that the plan of study will be approved.

**Suggested Course Schedule**

A sample academic schedule for a student who has a half-time teaching or research assistantship during the first 4 semesters is shown below. It includes the core courses for admission to preliminary candidacy (described in a subsequent section) and a set of lecture courses that meet the Ph.D. course requirements. It is the schedule for a full-time resident student with the normal preparation described above and who is working toward the Ph.D. degree. Students admitted with less preparation should begin with less advanced courses. Courses numbered 500 and above carry graduate credit.

The electives listed below, e.g. PHSX 741, PHSX 781, PHSX 795, PHSX 911, are purely an illustrative option. Students have the freedom to choose which non-required courses satisfy their elective requirements. Note that this sample schedule may also not apply for a student pursuing a more multidisciplinary plan of study.

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Fall Hours</th>
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<td>PHSX 718</td>
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<table>
<thead>
<tr>
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<td>PHSX 931</td>
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<td></td>
<td>9</td>
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</tbody>
</table>

Total Hours: 38

**Communication Skills**

All graduate students, after their first semester, will deliver at least 1 oral presentation per semester. The talk should be at least 20 minutes long. For students not yet associated with a research group, the Graduate Seminar can serve as a venue. For more advanced students the seminar of their research group would be a natural venue. The student does not need to be enrolled in the seminar to present a talk for this purpose. Off-campus venues such as collaboration meetings and physics conferences can also serve this purpose. When giving
presentations, students should fill out a form available on the department web site and have it
signed by 2 witnesses, 1 of which must be a Physics or Astronomy faculty and other a Ph.D.
doing research in the department. The completed form must be handed to the office staff. Faculty
members who sign off on the talks are expected to provide constructive feedback to the student.
The graduate advisor will monitor student compliance with the requirement.

**Colloquium and Graduate Seminar**

All students must enroll in PHSX 700 Colloquium in the sixth semester. Students should have
attended at least 75 percent of the regularly scheduled colloquia during the 6 semesters to
achieve a passing grade. In Fall of the first year, each graduate student is required to enroll in and
attend the graduate seminar (PHSX 717) in order to familiarize themselves with research
programs in the Department and gain experience in oral presentations.

**Research Skills and Responsible Scholarship**

By the end of 1 year after being admitted to preliminary candidacy, the student must complete
PHSX 815/ASTR 815, Computational Physics and Astronomy, with a grade of "B" or higher in
order to satisfy the Research Skills requirement. Note that this course has significant
prerequisites in undergraduate Computer Science. The Responsible Scholarship requirement is
filled via completion of PHSX 717.

**Computing Skill**

Students must complete PHSX 815 Computational Methods in Physical Sciences/ASTR 815
Computational Physics and Astronomy with a grade of A or B, preferably within 1 year after
admission to preliminary candidacy. This course has significant prerequisites in advanced
undergraduate computer science and requires completion of a substantial computer program to
solve a physical problem.

**Note:** Contact your department or program for more information about research skills and
responsible scholarship, and the current requirements for doctoral students. Current policies on
Doctoral Research Skills and Responsible Scholarship are listed in the KU Policy Library.

**Comprehensive Examination**

Graduate College requirements for the Comprehensive Examination can be found at
https://documents.ku.edu/policies/Graduate_Studies/doccomprehensiveorals.htm.

After completing a major portion of the required course work and satisfying the computing skills
requirement, the student must pass the comprehensive examination. The Department
recommends at least 5 people for committee membership to the Graduate Division, which makes
the final appointments. 1 committee member must come from outside of the Department to serve
as a representative of the Graduate School. Requests to take the examination must be made to the
Graduate Coordinator at least 3 weeks in advance of the date of the examination.
The student will write a 2000 to 4000 word paper on a topic in their chosen sub-field that is relevant to their thesis work. This paper must be presented to the committee at least 1 week in advance of the scheduled oral exam. The student will make a presentation at the oral examination based upon this paper, and will be examined on the contents of the talk, the paper, and works listed in the paper's bibliography. The bibliography must include at least 1 recent article from a peer-reviewed journal not authored by the student or the student's advisor. In addition, the committee may ask questions at the oral examination that cover the entire field of physics plus any related material (such as mathematics or chemistry) considered relevant by the examining committee.

In order to pass the comprehensive exam, the student must receive passing grades on both the written and oral components of the exam. The overall grade on this examination, determined by the examining committee, will be "Honors," "Satisfactory," or "Unsatisfactory."

**Post-Comprehensive Requirements**

Upon passing the comprehensive examination, the student becomes a candidate for the Ph.D. degree. The Graduate Division will then designate the candidate's dissertation committee based on the recommendation of the Department. Each candidate must complete a research project that has been approved by the committee. The committee establishes the candidate's course requirements and directs the research.

Unless granted a leave of absence, the candidate must be continuously enrolled full-time, including summer sessions, until all requirements for the degree are completed. During this time, the candidate must enroll in a minimum of 6 hours a semester and 3 hours a summer session until the completion of the degree or of 18 hours of post-comprehensive enrollment, whichever comes first. (Post-comprehensive enrollment may include the semester in which the comprehensive examination is passed.) After 18 hours of post-comprehensive enrollment, the candidate must continue to enroll each semester and each summer session until all requirements for the degree have been met. If the student petitions, they can enroll for only 1 hour of credit in spring, summer, and fall and still maintain their GTA or GRA status. For more information, see the Graduate Studies policy on [GTA/GRA Certification of Eligibility to Enroll in Fewer than Six Hours](#).

At least once each year after passing the comprehensive examination, the student should schedule a meeting with his or her dissertation committee to discuss progress towards the completion of the dissertation and any other concerns. A report of the committee's consensus of the meeting should be prepared by a member of the committee other than the student's advisor and placed in the student's file. Copies are to be given to the Departmental Chairman, the Graduate Committee Chair, the Graduate Advisor, the Departmental Director of Graduate Studies, and the student.

For more information, please view the Graduate Studies policy on [post-comprehensive enrollment](#).
Final Oral Examination

The final oral examination will proceed according to the regulations of Graduate studies. These can be found at https://documents.ku.edu/policies/Graduate_Studies/docfinaloral.htm.

We refer to these requirements below, as they appeared on September 24, 2010, and we have inserted some modified requirements for those students who wish to pursue a more multidisciplinary dissertation topic.

It is the responsibility of the student to make sure that they satisfy the current university requirements.

Completion of the dissertation is the culminating academic phase of a doctoral program, climaxed by the final oral examination and defense of the dissertation. In all but the rarest cases, tentative approval of the dissertation is followed promptly by the final oral examination. When the completed dissertation has been accepted by the committee in final draft form, and all other degree requirements have been satisfied, the chair of the committee requests the Graduate Division to schedule the final oral examination. This request must be made in advance of the desired examination by at least the period specified by the Graduate Division (normally at least 3 weeks). The submission of the request must allow sufficient time to publicize the examination so that interested members of the university community may attend. At least 5 months must elapse between the successful completion of the comprehensive oral examination and the date of the final oral examination.

The committee for the final oral examination must consist of at least 5 members (the members of the dissertation committee plus other members of the Graduate Faculty recommended by the committee chair and the department and appointed by the Graduate Division). The Chair of the committee and 3 of the other 4 members must have appointments of some type within the Physics and Astronomy department. 1 member must be from a department other than the Physics and Astronomy department. The outside member represents Graduate Studies and must be a regular member of the Graduate Faculty. Before the examination, the Graduate Division provides a list of responsibilities to the Graduate Studies representative. The Graduate Studies representative is a voting member of the committee, has full right to participate in the examination, and provides a written report on any unsatisfactory or irregular aspects of the examination to the committee chair, department chair, Graduate Division, and Graduate Studies.

For students (and only those students) who are pursuing a multidisciplinary plan of study -- as defined by their substitution of courses from other departments for PHSX electives as described in the Course Requirements section -- up to 2 members of the committee, including the 1 required outside member, may be faculty from other SEM departments with regular, adjunct, or courtesy appointments at KU. The Chair must have an appointment of some type within the Physics and Astronomy department. (Exception: if the primary appointment of the Chair is outside the department, then only 1 additional committee member may be outside the Department of Physics and Astronomy.) NOTE: It is assumed that these research projects may involve interaction between physics and 1 or more other SEM disciplines; therefore, the external faculty members may come from up to 2 different departments. The Graduate Division ascertains
whether all other degree requirements have been met and if reports of any previously scheduled final oral examinations have been submitted and recorded. Upon approval of the request, the final oral examination is scheduled at the time and place designated by the Graduate Division. This information must be published in a news medium as prescribed by the Graduate Faculty. Interested members of the university community are encouraged to attend these examinations. For every scheduled final oral examination, the department reports to the Graduate Division a grade of Honors, Satisfactory, or Unsatisfactory for the candidate's performance. If an Unsatisfactory grade is reported, the candidate may be allowed to repeat the examination on the recommendation of the department.

(NEW) Proposed

**Ph.D. Degree Requirements**

The departmental web page with some additional information, e.g., milestones, can be found online.

**Residence**

*To become a Ph.D. candidate, i.e. to take the comprehensive exam:*

The student must spend at least two 2 semesters, which may include one 1 summer session, in resident study at the University of Kansas.

*To earn a Ph.D.:*

The student must spend at least the equivalent of 3 full academic years in graduate study at this or another approved institution or laboratory. During this period of residence, the student must be involved full-time in academic or professional pursuits, which may include an appointment for teaching or research if the teaching/research is directed specifically toward the student's degree objectives.

**Enrollment**

Graduate students with half-time assistantships usually require at least four 4 years to complete all requirements. Maximum enrollment for students with no other departmental obligations is 16 hours a semester. In addition to satisfying the residence requirement, a student with a half-time assistantship must be enrolled for at least six 6 hours each semester. A maximum of 12 hours is permitted if the student’s duties consist of research that partially fulfills degree requirements. A fellowship holder or full-time student with private support must be enrolled for at least 9 hours.

**Time Limits**

See the University's policy on time limits.
Graduate Teaching Assistantship Eligibility

To be eligible for teaching assistantships, all graduate students who are not native speakers of English must achieve a minimum score of 50 on the SPEAK test. International students must pass an oral examination to demonstrate English fluency. Students who fail this examination should take courses from the Applied English Center.

Every student who receives a GTA appointment will be required to complete PHSX 702 Introductory Physics Pedagogy at the first offering of the course starting with the semester of the student’s initial GTA appointment. Failure to complete this class at the first opportunity may affect consideration for subsequent GTA appointments.

Undergraduate Requirements

All students must adhere to the General Requirements for all Graduate Degrees, which are part of each student’s individualized plan for ensuring student preparation.

Preliminary Candidacy

To be admitted to preliminary candidacy, each graduate student must satisfy department requirements:

1. Undergraduate knowledge of physics must be certified at the department undergraduate level (600-level KU courses). The ways to achieve this certification are outlined above under Course Requirements.
   A candidate for a Master’s or Ph.D. degree who has not had the equivalent of 6 credit hours of advanced undergraduate laboratory course work (Junior/Senior level) is required to take 1 of the 3 advanced laboratory courses offered in the department.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PHSX 516</td>
<td>Physical Measurements</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 536</td>
<td>Electronic Circuit Measurement and Design</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 601</td>
<td>Design of Physical and Electronic Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

2. Within 12 months Undergraduate knowledge of entering physics must be certified at the program the student must complete all department undergraduate courses taken as part of the individualized plan for ensuring student preparation.

2. Achieve a minimum core course grade point average of 3.2. The core course GPA is computed from the following five 5 equally weighted elements:

   a. Grade obtained in PHSX 711 PHSX 711 Quantum Mechanics I
   b. Grade obtained in PHSX 811 PHSX 811 Quantum Mechanics II
   c. Grade obtained in PHSX 821 Classical PHSX 821 Classical Mechanics
d. Grade obtained in **PHSX 831 PHSX 831** Electrodynamics I

3. Average grade of 2 other PHSX lecture courses numbered 700 or higher, excluding **PHSX 815 PHSX 815** (computational physics) and **PHSX 717** (graduate seminar).

4. a. Students may repeat one of the four core courses (**PHSX 711, PHSX 811, PHSX 821, PHSX 711, PHSX 811, PHSX 821, and PHSX 831**) once for the purpose of improving the core GPA. In calculating the core GPA, the Department will use only the better of the two grades.

5. The two "other PHSX lecture courses numbered 700 or higher" must be taken at KU, but students entering with graduate credit from other institutions may petition the Graduate Committee for transfer credit for any of the 4 named core courses. For the purposes of the core GPA, grades (of "B" or better) from the previous institution may be used for at most 3 of the 4 named courses. For the remaining course the student must obtain written certification of "B" performance or better from the instructor of the course at KU. Such certification may be obtained by taking the course, taking the final exam of the course (if there is one), or other means which the instructor may determine. An appropriate higher-level course may also be used to obtain certification in a core course (for example, **PHSX 811** may be used to obtain credit for **PHSX 711 PHSX 931 for PHSX 831**).

6. Graduate students are normally expected to complete all core courses by the end of their second year of enrollment. Students who are required to complete an undergraduate physics certificate have 3 years to finish their core courses. Extensive Applied English Center (AEC) courses, prolonged illness, or extended military service might provide exceptional circumstances.

**Decision on Preliminary Candidacy**

Once Undergraduate requirements have been certified and sufficient information has been received regarding the required courses, the Graduate Committee will decide whether or not to admit the student to preliminary candidacy. This decision will be based upon the certification and on their core course GPA. The Graduate Committee Chair will report their decision to the Graduate Faculty.

Once requirements for Preliminary Candidacy have been met, the Graduate Committee will decide whether or not to admit the student to Preliminary Candidacy. This decision will be based on core course GPA. The Graduate Committee Chair will report their decision to the Graduate Faculty.

**Course Requirements**

What follows are the default set of requirements for all Ph.D. candidates.
An undergraduate knowledge of physics. This must be certified by the department to be at an advanced undergraduate level (600-level KU courses). The certification must be achieved within 12 months (extension possible with recommendation of the graduate admission committee) of entering the program and may require additional coursework. Extension is possible with recommendation of the graduate admission committee. Certification can be achieved in several ways: A GRE physics score greater than or equal to 650; or THE DETERMINATION BY THE GRADUATE DIRECTOR AND GRADUATE ADVISOR, BASED ON the diagnostic exam given on entering the program combined with the student's undergraduate record, that the student understands all major elements of undergraduate physics; or Successful completion with grade of B or better on all undergraduate courses that the graduate director and/or advisor recommends based on the results of (2). The student who has not succeeded in certifying their undergraduate physics knowledge in 1 of the above 3 ways could, within 12 months of starting the program, petition the Graduate Committee for an oral exam on undergraduate physics. The oral exam will be administered by a committee of 6 faculty members assigned by the department. A candidate for a Master's or Ph.D degree who has not had the equivalent of 6 credit hours of advanced undergraduate laboratory course work (Junior/Senior level) is required to take 1 of the 3 advanced laboratory courses offered in the Department.

A total of 11 advanced lecture courses (33 hours) of advanced lecture courses are required. This excludes all seminars, classes taken as part of the Individualized Plan, and colloquia.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Hours</th>
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<tbody>
<tr>
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<td>Physical Measurements</td>
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<td>Electronic Circuit Measurement and Design</td>
<td>4</td>
</tr>
<tr>
<td>PHSX 601</td>
<td>Design of Physical and Electronic Systems</td>
<td>4</td>
</tr>
</tbody>
</table>

1. In addition, 1 hour of PHSX 700 Colloquium, 1 hour of PHSX 717 Graduate Seminar, and (for GTAs only) one hour of PHSX 702 Introduction to Physics Pedagogy are required.

1. Core courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>PHSX 711</td>
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</tr>
<tr>
<td>PHSX 811</td>
<td>Quantum Mechanics II</td>
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</tr>
<tr>
<td>PHSX 821</td>
<td>Classical Mechanics</td>
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</tr>
<tr>
<td>PHSX 831</td>
<td>Electrodynamics I</td>
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</table>

2. Other required courses:

<table>
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<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
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<tr>
<td>PHSX 717</td>
<td>Graduate Seminar</td>
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</tr>
<tr>
<td>PHSX 718</td>
<td>Mathematical Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 815</td>
<td>Computational Methods in Physical Sciences</td>
<td>3</td>
</tr>
<tr>
<td>PHSX 871</td>
<td>Statistical Physics I</td>
<td>3</td>
</tr>
</tbody>
</table>
3. Two additional PHSX lecture courses numbered 700 or above. This excludes PHSX 815 (computational physics) and PHSX 717 (graduate seminar). The 2 courses must be in different sub-fields of physics and they may not be used to simultaneously satisfy other degree requirements in force. (For example, if PHSX 911 is being used to satisfy the PHSX 811 core requirement, it may not also be used to satisfy the requirement for 2 lecture courses at the 700 level or above.)

4. 1 additional advanced PHSX lecture course (numbered 800 or above; excluding PHSX 815) One 1 credit hour of Colloquium is required (PHSX 700). See “Colloquium and Graduate Seminar for an explanation.”

5. All graduate students, after their first semester, will deliver at least 1 oral presentation per semester. See “Communication Skills” for an explanation.

The courses listed above comprise the Department course requirements common to all students except those pursuing a multi-disciplinary plan of study, which is described below. There is no foreign language requirement. Subsequent work, consisting of advanced courses in appropriate fields and seminars, will be selected by the student and the advisor on the basis of the student's need and intended field of specialization. There is no prescribed minimum number of hours for the Ph.D. degree. The student's dissertation committee will determine the adequacy of the student's courses and seminars and will specify the total course requirements. Neither the Graduate School nor the Department has a requirement for a minor.

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**Suggested Course Schedule**

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with less preparation should begin with less advanced courses. Courses numbered 500 and above carry graduate credit.

The electives listed below, e.g. PHSX 741, PHSX 781, PHSX 795, PHSX 911, are purely an illustrative option. Students have the freedom to choose which non-required courses satisfy their elective requirements. Note that this sample schedule may also not apply for a student pursuing a more multidisciplinary plan of study.

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<tr>
<td><strong>Fall</strong></td>
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<td><strong>Spring</strong></td>
<td><strong>Hours</strong></td>
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<td><strong>Year 2</strong></td>
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<tr>
<td><strong>Fall</strong></td>
<td><strong>Hours</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Hours</strong></td>
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<td>PHSX 781</td>
<td>3</td>
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<td>PHSX 911</td>
<td>3</td>
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<td>PHSX 871</td>
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<td></td>
<td>9</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Total Hours:</strong></td>
<td><strong>38</strong></td>
<td></td>
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</tbody>
</table>

**Communication Skills**

All graduate students, after their first semester, will deliver at least 1 oral presentation per semester related to physics or astronomy. The talk should be at least 20 minutes long. For students not yet associated with a research group, the Graduate Seminar can serve as a venue. For more advanced students, students the seminar of their research group would be a natural venue. The student does not need to be enrolled in the seminar to present a talk for this purpose. When giving presentations, students should fill out a form available on the Oral Presentation Form department web site and have it signed by 2 attendees, 1 of whom which must be a KU Physics or Astronomy faculty member and the other of whom must be a Ph.D. doing research in the department. Faculty members who sign off on the talks are expected to provide constructive feedback to the student. Off-campus venues such as collaboration meetings (when endorsed by their advisor), invited presentations, and physics conferences can also satisfy serve this requirement. For this to occur, the student must submit a copy of the agenda or speaking event with the student's presentation indicated. In this case, no attendee signatures are required and the 20 minute time limit does not apply. The completed form or evidence of must be handed to the off-campus presentation must be handed to the office staff. Faculty members
who sign off on the talks are expected to provide constructive feedback to the student. The graduate advisor will monitor student compliance with the requirement.

**Colloquium and Graduate Seminar**

All students must enroll in **PHSX 700** Colloquium in their sixth semester. Students should have attended at least 75 percent of the regularly scheduled colloquia during the six semesters to achieve a passing grade. In Fall of the first year, each graduate student is required to enroll in and attend the graduate seminar (**PHSX 717**) in order to familiarize themselves with research programs in the Department and gain experience in oral presentations.

**Research Skills and Responsible Scholarship**

By the end of 1 year after being admitted to preliminary candidacy, the student must complete **PHSX 815/ASTR 815**, Computational Physics and Astronomy, with a grade of "B" or higher in order to satisfy the Research Skills requirement. Note that this course has significant prerequisites in undergraduate Computer Science. The Responsible Scholarship requirement is filled via completion of **PHSX 717**.

**Pedagogical Instruction**

Every student who receives a GTA appointment will be required to complete **PHSX 702** at the first offering of the course starting with the semester of the student's initial GTA appointment. Failure to complete this class at the first opportunity may affect consideration for subsequent GTA appointments.

Computing Skill Students must complete **PHSX 815** Computational Methods in Physical Sciences/ **ASTR 815** Computational Physics and Astronomy with a grade of A or B, preferably within 1 year after admission to preliminary candidacy. This course has significant prerequisites in advanced undergraduate computer science and requires completion of a substantial computer program to solve a physical problem. Note: Contact your department or program for more information about research skills and responsible scholarship, and the current requirements for doctoral students. Current policies on Doctoral Research Skills and Responsible Scholarship are listed in the KU Policy Library.

**Comprehensive Examination**

Graduate Studies College requirements for the Comprehensive Examination can be found at [https://documents.ku.edu/policies/Graduate_Studies/doccomprehensiveorals.htm](https://documents.ku.edu/policies/Graduate_Studies/doccomprehensiveorals.htm).

After completing a major portion of the required course work and satisfying the computing skills requirement, the student must pass the comprehensive examination. The Department recommends at least 5 people for committee membership to the Graduate Division, which makes the final appointments. One committee member must come from outside of the Department to
serve as a representative of the Graduate Studies, School. Requests to take the examination must be made to the Graduate Coordinator at least 3 weeks in advance of the date of the examination.

The student will write a 2,000 to 4,000 word paper on a topic in their chosen sub-field that is relevant to their thesis work. This paper must be presented to the committee at least 1 week in advance of the scheduled oral exam. The student will make a presentation at the oral examination based upon this paper, and will be examined on the contents of the talk, the paper, and works listed in the paper's bibliography. The bibliography must include at least one 1 recent article from a peer-reviewed journal not authored by the student or the student's advisor. In addition, the committee may ask questions at the oral examination that cover the entire field of physics plus any related material (such as mathematics or chemistry) considered relevant by the examining committee.

In order to pass the comprehensive exam, the student must receive passing grades on both the written and oral components of the exam. The overall grade on this examination, determined by the examining committee, will be "Honors," "Satisfactory," or "Unsatisfactory."

The checklist will be filled out after the comprehensive exam and retained as a part of the student's records. The student's thesis advisor will discuss the results with the student. A template form is available for download.

**Graduate Student Tracking Process**

All graduate students will need to submit an annual report from starting after they have been enrolled in our department for 1 year. This is part of our departmental student progress tracking and will be overseen by the Graduate Student Evaluation committee. This committee will specify the deadlines for handing in the forms. The failure of the student to complete this progress report by these deadlines may affect their standing in the graduate program.

The exact implementation details depend on the stage of the student’s graduate career. The Departmental Graduate Advisor has the evaluation responsibilities for pre-preliminary candidacy students and for terminal Master's degree students. In the preliminary candidacy stage, the Graduate Student Evaluation Committee or the student’s research advisor will carry out the evaluation with oversight from the Graduate Student Evaluation Committee. In the candidacy stage the student’s research advisor carries out the evaluation with oversight from the Graduate Student Evaluation Committee.

The revised procedures that follow are broken down by stage in the program.

**First semester:** All students will meet with the Departmental Graduate Advisor before the start of classes of their first semester. They are also required to meet with the Departmental Graduate Advisor at least once before the end of the first semester, ideally around the time of enrollment for the second semester.

**Before preliminary candidacy or seeking a terminal Master’s degree:** These students will submit the annual report form to the Graduate Coordinator who will forward it to the Departmental
Graduate Advisor. A meeting will be initiated with the Graduate Advisor if there are concerns. The first form must be submitted between the tenth and fourteenth month following each student’s entry into the program. Following this, the evaluation will occur at 10 to 14 month intervals for the duration of the student’s tenure in our graduate program.

*Between preliminary candidacy and passing the comprehensive exam:* Students will submit their annual report form to the Graduate Coordinator. The form will be evaluated by either the Graduate Student Evaluation Committee or by their research advisor, if requested by the student and agreed to by the advisor. In the case that the research advisor completes the non-student portion part, the advisor will submit it to the Graduate Coordinator by the submission deadline.

*After passing the comprehensive exam:* Students will submit their annual report form to the Graduate Coordinator. Their research advisor will evaluate the form. The advisor will complete the non-student portion and submit it to the Graduate Coordinator by the nominal submission deadline. The Committee will read the submitted forms and the comments of the research advisor.

For preliminary candidates and candidates, the Graduate Student Evaluation Committee may, at their own discretion, initiate a meeting with the student and the student’s research advisor, should 1 exist, and the committee members. A meeting should be initiated if there are unsatisfactory remarks or warning signs or if the student or research advisor requests such a meeting. The goal of the meeting should be to develop a plan to address the concerns identified from the report.

**Milestones Towards PhD**

There are a set of milestones on the way to completing a PhD degree in the department. Each of these milestones has an associated deadline. Failure to meet any of these milestones by its deadline may result in the loss of funding (TA- or RA-ships) and/or in the denial of candidacy for the Ph.D. Completion of all milestones at earliest possible time is encouraged. The milestones are summarized here in order of their occurrence and explained in more detail below:

1. All graduate students are expected to have passed the speaking test (if relevant) within 2 years since entering the PhD program.
2. Students are encouraged to be a GTA for at least 1 semester during their time as a student in the department.
3. Admission to preliminary candidacy for a Ph.D. must occur within the first 2 years. There is no exam requirement for entrance into preliminary candidacy.
4. Students must pass an oral comprehensive examination that includes a proposal of a plan for Ph.D. research and an oral presentation of this plan. The comprehensive exam also includes a general knowledge component based on all previous coursework. This exam usually occurs in the fourth year.
5. A written dissertation must be completed and defended in an oral examination.

**Pre-comprehensive Milestones**

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1. Within 12 months of entering the program the student must complete all undergraduate courses taken as part of the Individualized Plan for ensuring student preparation.

2. Within 2 years of entering the program the student must fulfill requirements for Preliminary Candidacy.

3. By 12 months following the entrance into preliminary candidacy, the student should have completed almost all lecture course work and begun preparing for the comprehensive examination.

4. Before the end of an 18 month period following preliminary candidacy the student should have chosen an advisor, completed the comprehensive exam, and should be carrying out Ph.D. research. A dissertation committee must be assembled, usually comprising the members of the comprehensive exam committee.

**Post-comprehensive Milestones**

1. The student is now a Ph.D. candidate and must abide by the rules for post-comprehensive enrollment. In brief summary, the student will schedule a meeting with their dissertation committee every 12 months after admission to preliminary candidacy.

2. The student will prepare a dissertation based on the student's original research, which must be satisfactory to the departmental members of the dissertation committee, and will defend it in a final oral examination before the dissertation committee. This examination is open to the public.

**Post-Comprehensive Requirements**

Upon passing the comprehensive examination, the student becomes a candidate for the Ph.D. degree. The Graduate Division will then designate the candidate's dissertation committee based on the recommendation of the Department. Each candidate must complete a research project that has been approved by the committee. The committee establishes the candidate's course requirements and directs the research.

Unless granted a leave of absence, the candidate must be continuously enrolled full-time, including summer sessions, until all requirements for the degree are completed. During this time, the candidate must enroll in a minimum of 6 hours a semester and 3 hours a summer session until the completion of the degree or of 18 hours of post-comprehensive enrollment, whichever comes first. (Post-comprehensive enrollment may include the semester in which the comprehensive examination is passed.) After 18 hours of post-comprehensive enrollment, the candidate must continue to enroll each semester and each summer session until all requirements for the degree have been met. If the student petitions, they can enroll for only 1 hour of credit in spring, summer, and fall and still maintain their GTA or GRA status. For more information, see the Graduate Studies policy on GTA/GRA Certification of Eligibility to Enroll in Fewer than Six Hours.

At least once each year after passing the comprehensive examination, the student should schedule a meeting with his or her dissertation committee to discuss progress towards the completion of the dissertation and any other concerns. A report of the committee's consensus of the meeting should be prepared by a member of the committee other than the student's advisor.
and placed in the student's file. Copies are to be given to the Departmental Chairman, the Graduate Committee Chair, the Graduate Advisor, the Departmental Director of Graduate Studies, and the student.

For more information, please view the Graduate Studies policy on post-comprehensive enrollment.

Final Oral Examination

The final oral examination will proceed according to the regulations of Graduate Studies. We refer to these requirements below, as they appeared on September 24, 2010, and we have inserted some modified requirements for those students who wish to pursue a more multidisciplinary dissertation topic.

It is the responsibility of the student to make sure that they satisfy the current university requirements.

Completion of the dissertation is the culminating academic phase of a doctoral program, climaxed by the final oral examination and defense of the dissertation. In all but the rarest cases, tentative approval of the dissertation is followed promptly by the final oral examination. Students must deliver their complete dissertation (PDF is acceptable) to their committee at least one week before a final defense can be scheduled with the University. After each committee member agrees that the dissertation is essentially complete, a final defense can be scheduled. Lack of a committee member's response is considered to be implicit approval. This process will be fully monitored by the Graduate Secretary. Once committee approval has been granted, the final defense must be scheduled with the Graduate Secretary. This request must be made in advanced of the desired examination by at least the period specified by the Graduate Division (normally 3 weeks). The submission of the request must allow sufficient time to publicize the examination so that interested members of the university community may attend. At least 5 months must elapse between the successful completion of the comprehensive oral examination and the date of the final oral examination.

The committee for the final oral examination must consist of at least 5 members (the members of the dissertation committee plus other members of the Graduate Faculty recommended by the committee chair and the department and appointed by the Graduate Division). The Chair of the committee and 3 of the other four 4 members must have appointments of some type within the Physics and Astronomy department. One 1 member must be from a department other than the Physics and Astronomy department. The outside member represents Graduate Studies and must be a regular member of the Graduate Faculty. Before the examination, the Graduate Division provides a list of responsibilities to the Graduate Studies representative. The Graduate Studies representative is a voting member of the committee, has full right to participate in the examination, and provides a written report on any unsatisfactory or irregular aspects of the examination to the committee chair, department chair, Graduate Division, and Graduate Studies.

For students (and only those students) who are pursuing a multidisciplinary plan of study -- as defined by their substitution of courses from other departments for PHSX electives as described
in the Course Requirements section -- up to 2 members of the committee, including the one required outside member, may be faculty from other SEM departments with regular, adjunct, or courtesy appointments at KU. The Chair must have an appointment of some type within the Physics and Astronomy Department. (Exception: if the primary appointment of the Chair is outside the department, then only one 1 additional committee member may be outside the Department of Physics and Astronomy.) NOTE: It is assumed that these research projects may involve interaction between physics and 1 or more other SEM disciplines; therefore, the external faculty members may come from up to 2 different departments.

The Graduate Division ascertains whether all other degree requirements have been met and if reports of any previously scheduled final oral examinations have been submitted and recorded. Upon approval of the request, the final oral examination is scheduled at the time and place designated by the Graduate Division. This information must be published in a news medium as prescribed by the Graduate Faculty. Interested members of the university community are encouraged to attend these examinations.

For every scheduled final oral examination, the department reports to the Graduate Division a grade of Honors, Satisfactory, or Unsatisfactory for the candidate's performance. If an Unsatisfactory grade is reported, the candidate may be allowed to repeat the examination on the recommendation of the department. Guidelines for assigning a grade of PASS with HONORS (Approved April 2013) are available for review. Prior to the oral defense, each member of the PhD Committee is expected to complete the on-line rubric form for evaluation of the written communication and learning outcomes, as exemplified by the written thesis. The dissertation signature page must be signed by all committee members before final submission of the Progress Toward Degree form to the College. Electronic signatures are allowed. In addition, a copy of the dissertation must be filed with the department.

The departmental web page has additional helpful information.

All Graduate College requirements are also available for review.

**JUSTIFICATION**

This proposal is being submitted to include the Individualized Plan of Study instituted by our department. In addition, edits were made to increase consistency among the sections and to fix some grammatical/unclear issues. It is our expectation that these changes should be approved quickly given that the changes are for clarification rather than major program adjustments. Normally, this would be done during the Catalog edits, but that is no longer possible with the institution of this CIM system.

The additional edits bring the catalog up-to-date with procedures approved by the Graduate Committee and the Departmental Assembly of Physics & Astronomy.

f. Changes to Existing Degree – PSYC-PhD : Clinical Child Psychology, Ph.D.  
CHANGE RESEARCH AND STATISTICS CORE COURSES TABLE
(OLD) Current

Research and Statistics Core Courses

**Required:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 815</td>
<td>Design and Analysis for Developmental Research</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 968</td>
<td>Research Methods in Clinical Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 790</td>
<td>Statistical Methods in Psychology I</td>
<td>4</td>
</tr>
<tr>
<td>or EPSY 811</td>
<td>Analysis of Variance</td>
<td></td>
</tr>
<tr>
<td>PSYC 791</td>
<td>Statistical Methods in Psychology II</td>
<td>4</td>
</tr>
<tr>
<td>or EPSY 810</td>
<td>Regression Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Alternates to PSYC 791/EPSY 810 include the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ABSC 735 &amp; ABSC 796</td>
<td>Within Subjects Research Methodology and Direct Observation and Laboratory in Behavioral Development and Modification: The Analysis of Behavior I</td>
<td></td>
</tr>
<tr>
<td>ABSC 940</td>
<td>Measurement and Experimental Design for Applied Research</td>
<td></td>
</tr>
</tbody>
</table>

(NEW) Proposed

Research and Statistics Core Courses

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<td>Design and Analysis for Developmental Research</td>
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</tr>
<tr>
<td>or PSYC 968</td>
<td>Research Methods in Clinical Psychology</td>
<td></td>
</tr>
<tr>
<td>One Introductory Statistics Course</td>
<td>Statistical Methods in Psychology I</td>
<td>4</td>
</tr>
<tr>
<td>or EPSY 810</td>
<td>Regression and ANOVA: General Linear Models</td>
<td></td>
</tr>
<tr>
<td>One ANOVA or Multivariate Statistics Course</td>
<td>Statistical Methods in Psychology II</td>
<td>4</td>
</tr>
</tbody>
</table>

Alternate to PSYC 791 includes the following:

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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 893</td>
<td>Multivariate Analysis</td>
<td></td>
</tr>
<tr>
<td>EPSY 811</td>
<td>Analysis of Variance</td>
<td></td>
</tr>
<tr>
<td>EPSY 905</td>
<td>Fundamentals of Multivariate Modeling</td>
<td></td>
</tr>
</tbody>
</table>

At least 1 additional quantitative course

<table>
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<tr>
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<th>Title</th>
<th></th>
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<tbody>
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<td>Within Subjects Research Methodology and Direct Observation and Laboratory in Behavioral Development and Modification: The Analysis of Behavior I</td>
<td></td>
</tr>
</tbody>
</table>
JUSTIFICATION
1. ABS is deactivating ABSC 796; ABSC 796 will no longer be offered by ABS.
2. Changes to the required quantitative course sequence are proposed to reflect recent changes in course content in PSYC and EPSY, and to increase the flexibility of the quantitative methods requirements for students’ individual training needs. These changes will facilitate completion of degree requirements. These changes are requested after consultation with the Quantitative Psychology area director.

Changes to Existing Degree – SPLH-PhD : Child Language, Ph.D
- DELETE REQUIREMENT OF COMPETENCE IN THE USE OF COMPUTERS.
- ADD “GENETICS OF LANGUAGE & SPEECH” TO LIST OF COURSES
- ADD DISSERTATION AND DEFENSE REQUIREMENT.

(OLD) Current

Ph.D. Degree Requirements

For the Ph.D. degree, the student must complete all general requirements. These include residence, research skills, comprehensive oral examination, preparation of a dissertation, and the final oral examination and defense of the dissertation. 3 options for fulfilling the research skills requirement are available:

1. Competence in the use of computers can be demonstrated by course work or by a successful demonstration of proficiency. Competence in both programming skills and computer applications is required.
2. Proficiency in a language other than English or reading knowledge of 2 languages other than English can be demonstrated.
3. A record of professional research experience or publication may be used to demonstrate research skills.

Note: Contact your department or program for more information about research skills and responsible scholarship, and the current requirements for doctoral students. Current policies on Doctoral Research Skills and Responsible Scholarship are listed in the KU Policy Library.

For students entering without the master’s degree, the requirements for the M.A. are at least 8 credit hours of core courses in language acquisition; 9 hours of supplemental courses in linguistics, psycholinguistics, developmental psychology, or language intervention; 6 hours of statistics; and 6 hours of thesis. Continuous enrollment in the child language proseminar is required. Within 3 years of entering the program, students normally complete the required 30
graduate credit hours, prepare an M.A. thesis, and pass a final general examination and defense of the thesis.

Ph.D. post-master’s requirements include a minimum of 47 additional graduate credit hours. These should include at least 8 hours of additional core courses, 18 hours of additional supplemental courses, 9 hours of additional statistical and methodological courses, and a minimum of 6 hours of dissertation. Continuous enrollment in the proseminar is required.

After completing the research skills requirement and the major portion of the course work, the doctoral student must pass a written preliminary examination and a comprehensive oral examination. The written examination covers 4 areas:

1. Language acquisition,
2. Psycholinguistics,
3. Developmental psychology,
4. Disordered language development or language intervention.

The comprehensive oral examination covers the major field, taking one of 5 forms:

1. A defense of the written preliminary examinations,
2. A defense of a completed research project,
3. A prospectus for a future research project,
4. A discussion of a major review paper, or
5. A review of a research grant proposal and a simulated site visit defense of the proposal.

All students are expected to be engaged continuously in research on child language. Research involvement is documented with appropriate enrollment in research, thesis, and dissertation credit hours, and in the proseminar in child language.

Courses

See course listings for the cooperating departments.

(NEW Proposed)

Ph.D. Degree Requirements

For the Ph.D. degree, the student must complete all general requirements. These include residence, research skills, comprehensive oral examination, preparation of a dissertation, and the final oral examination and defense of the dissertation. Two options for fulfilling the research skills requirement are available:

1. Competence in the use of computers can be demonstrated by course work or by a successful demonstration of proficiency. Competence in both programming skills and computer applications is required.
1. Proficiency in a language other than English or reading knowledge of 2 languages other than English can be demonstrated.
2. A record of professional research experience or publication may be used to demonstrate research skills.

**Note:** Contact your department or program for more information about research skills and responsible scholarship, and the current requirements for doctoral students. Current policies on Doctoral Research Skills and Responsible Scholarship are listed in the KU Policy Library.

For students entering without the master’s degree, the requirements for the M.A. are at least 8 credit hours of core courses in language acquisition; 9 hours of supplemental courses in linguistics, psycholinguistics, developmental psychology, language intervention, or genetics of language and speech; 6 hours of statistics; and 6 hours of thesis. Continuous enrollment in the child language proseminar is required. Within 3 years of entering the program, students normally complete the required 30 graduate credit hours, prepare an M.A. thesis, and pass a final general examination and defense of the thesis.

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After completing the research skills requirement and the major portion of the course work, the doctoral student must pass a written preliminary examination and a comprehensive oral examination. The written examination covers 4 areas:

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4. A discussion of a major review paper, or
5. A review of a research grant proposal and a simulated site visit defense of the proposal.

All doctoral students are expected to complete a dissertation and complete a successful defense of the dissertation.

All students are expected to be engaged continuously in research on child language. Research involvement is documented with appropriate enrollment in research, thesis, and dissertation credit hours, and in the proseminar in child language.
Courses

See course listings for the Child Language Doctoral Program and cooperating departments.

JUSTIFICATION

Deleted requirement of competence in the use of computers. All incoming students are competent in the use of computers - their competence is demonstrated when they open and view the catalog and apply to the University online.

Added genetics of language & speech to list of supp. courses to reflect new courses.

Added explicit language about a dissertation and defense requirement.

Added the Child Language Doctoral Program to the blurb about seeing course listings, as the CLP now does have its own courses to see.

IV. Old Business

V. New Business