3-5-2015

Educational Policies Committee Minutes, March 5, 2015

Utah State University

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A meeting of the Educational Policies Committee was held on 5 March 2015 at 3:00 pm in Old Main 136 (Champ Hall Conference Room)

Present:  Ed Reeve for Larry Smith, Chair  
Barbara Williams for Michele Hillard, Secretary  
Richard Mueller, College of Science  
Roland Squire, Registrar’s Office  
Nicholas Morrison for Kevin Olson, Caine College of the Arts  
Chris Lant for Karen Mock, Quinney College of Natural Resources  
Ed Reeve, Curriculum Subcommittee Chair  
Melanie Nelson, USU-Eastern  
Nathan Straight, Regional Campuses  
Norm Jones, General Education Subcommittee Chair  
Kelly Fadel, Huntsman School of Business  
Thom Fronk, Engineering  
Scott Bates, Academic Standards Subcommittee Chair  
Derek Hastings, Graduate Studies Senator  
Jared Schultz, Education and Human Services  
Kacy Lundstrom, Libraries  
Heidi Kesler, Curriculum Retention  
Eddy Berry, Humanities and Social Sciences

Absent: Scott DeBerard, Graduate Council  
Doug Fiefia, USUSA President  
Janet Anderson, Provost’s Office

Visitors: Dawn Kirby, Assoc. Dean, Humanities and Social Sciences  
Sean Michael, Department Head, Landscape Architecture and Environmental Planning  
Michael Freeman, Associate Department Head, Teacher Education and Leadership  
Lindsey Shirley, Associate Professor, Family and Consumer Sciences Education

I. **Approval of the minutes of the 5 February 2015 meeting** (see attached)

   *Motion to approve the February 5, 2015 minutes made by Norman Jones. Seconded by Richard Muller. Minutes approved.*

II. **Subcommittee Reports**

   *Motion to approve the report of the Curriculum Subcommittee made by Richard Mueller. Seconded by Nicholas Morrison.*

   a. **Curriculum Subcommittee** (Ed Reeve)

      Course Approvals

      Request from the Department of Psychology proposes offering an interdisciplinary doctoral program in Neuroscience. (see attached)
Request from the Department of Sociology, Social Work and Anthropology proposes removal/discontinuation of the Master of Arts degree in Sociology. (see attached)

b. **Academic Standards Subcommittee** (Scott Bates)

*Motion to approve the report of the Academic Standards Subcommittee made by Norman Jones. Seconded by Richard Mueller.*

A meeting of the Academic Standards Subcommittee was held on 12 January 2015 at 2:00 pm in Old Main 136 (Champ Hall Conference Room)

Present:  
- Scott Bates, Chair, Emma Eccles Jones College of Education & Human Services  
- Roland Squire, Registrar’s Office (represented by Eric Humphrey)  
- Heidi Kesler, Curriculum Retention  
- Deidri Nielson, Secretary  
- Doug Fifiea, USUSA President  
- Stephanie Hamblin, Advising  
- Nathan Straight, Regional Campuses  
- Marci Smith, Registrar’s Office  
- Karen Mock, Quinney College of Natural Resources

Absent:  
- Dawn Kirby, College of Humanities & Social Sciences  
- Thom Fronk, Engineering

Visitors:  
- Krystin Deschamps and Bryan Olsen, Student Services

*Old Business*

Scott presented a revised Excused Absence Policy to discuss mainly two additions:

1. The multiple mechanisms that students should consider if absence is necessary (e.g., Incomplete, withdrawal).
2. The maximum percentage of classes that would be allowable missed under a revised policy.

Nathan Straight brought up concerns centered on the amount of work missed during classes aside from tests, or quizzes in regards to missing 20% of class meetings.

Karen Mock brought up concerns about the faculty liability to provide class materials to students who have missed class, essentially adding more work for the faculty.

Scott will add language to clarify the responsibilities of students and faculty in order to make up missed class work, and to add language about specific courses
that would be most impacted by missed work during courses (e.g., field work, labs, and group assignments).

The policy will undergo another revision, and will be presented at the next meeting (3/19).

**New Business**

A. Debra Baldwin, Instructor in History, submitted a proposal to cap summer credits unless special permission is given (as is done during the fall and spring terms). She noted that shortened sessions (a) effectively double students’ workload (in hours/week), and (b) that students are negatively impacted by taking more credits than is allowable based on the fall/spring standard ratio (18 credits without permission).

Roland Squire brought up the fact that Banner does not allow for the 7 week courses to be capped; only the entire semester can be capped. He suggested an analysis of this coming summer students before making any changes.

Roland Squire motioned to table the discussion on summer credit-hour cap until after the summer sessions could be analyzed. Karen Mock seconded the motion. Outcome: motion passed. Action: this item will be revisited in the fall, 2015, when a ‘scope of the problem’ will be presented by the registrar’s office.

B. The current student code of conduct was distributed to the committee, as was a proposed revision. Krystin Deschamps and Bryan Olsen (from Student Services) outlined the major changes and asked the committee to review and provide feedback at the next meeting (3/19). Specific changes and points of concern were noted.

The committee will discuss the Student Code of Conduct with incorporated edits during next meeting (3/19).

C. Undergraduate Degree Enrichment proposal was discussed (see attached).

Currently, if a student graduates with a bachelor’s degree but wants to take additional classes they are considered a non-matriculated graduate student. The proposal would allow students to remain classified as undergraduate students for up to 9 additional credits.

Stephanie Hamblin motioned to include the proposal as written, and Karen Mock seconded. Outcome: motion passed.

**Informational Items**

The March meeting has been changed to the 19th.
c. **General Education Subcommittee** (Norm Jones)

*Motion to approve the report of the General Education Subcommittee made by Nicholas Morrison. Seconded by Scott Bates.*

February 17, 2015, 8:30 A.M.
Champ Hall Conference Room

Present: Norm Jones, Chair; Dean Adams, Engineering; Eddy Berry, Social Sciences; Stephanie Hamblin, University Advising; Harrison Kleiner, Connections; Mary Leavitt, Advising; Kacy Lundstrom, Library; Kris Miller, Honors; Melanie Nelson, USU Eastern; Lee Rickords, Agriculture and Applied Sciences; Michele Hillard, Secretary; Larry Smith, Provost’s Office; Dawn Kirby, Humanities and Social Sciences; Shelley Lindauer, Education and Human Services; Doug Fiefia, USUAS President; Brian McCuskey, Humanities; Karen Mock, Natural Resources; Bob Mueller, Regional Campus

Absent: Kathy Chudoba, Business; Ryan Dupont, Life and Physical Sciences; Laura Gelfand, Arts; Dick Mueller, Science; Janet Anderson, Provost’s Office; Lawrence Culver, American Institutions; Dan Coster, Quantitative Intensive; Brock Dethier, Writing Program; Cindy Dewey, Creative Arts; John Mortensen, Student Services

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**Call to Order** – Norm Jones

**Approval of Minutes** – January 20, 2015

*Motion to approve minutes from January 20, 2015 made by Dawn Kirby. Seconded by Dean Adams.*

**Course Approvals**

N/A

**Course/Designation Removals**

N/A

**Syllabi Approvals**

ANTH 3110-001 (DSS) Judson Finley PENDING................................. Eddy Berry

CMST 4570 (QI) Lisa Guntzviller PENDING.................................Dan Coster

MUSC 3030 (DSS) Kevin Olson PENDING................................. Eddy Berry

HIST 3230 (DHA) Bob Mueller APPROVED ...............................Brian McCuskey

*Motion to approve made by Brian McCuskey. Seconded by Eddy Berry*

PHIL 4410 (DHA) Charlie Huenemann WITHDRAWN .....................Brian McCuskey
Business
The motion to approve this proposed change was carried forward from the previous meeting, when it was tabled for further discussion. A spreadsheet showing all of the CI courses offered over the past two years was provided to the GE Committee to provide data about CI courses. Motion to untable the CI motion made by Dawn Kirby. Seconded by Lee Rickords. The motion to approve the proposed change in policy language for CI was defeated, on a vote of 2 yea, 5 nay.

The Committee then discussed whether to change the policy wording requiring CI depth courses to provide experiences in both written and oral communication. Ideally, we should require both, and employers want both, but in reality not all faculty members are trained to provide instruction in oral communication. Several members of the committee expressed concern that currently approved CI courses are not providing sufficient oral instruction, and that if we were to assess them, we would have to remove their designations. It was noted that the current language excludes courses that are exclusively writing intensive or exclusively oral intensive from consideration. Some expressed their belief that majors, knowing how their majors communicate, already provide instruction in appropriate areas of written and oral communication, but that our current criteria have prevented them from having their courses recognized as CI.

Motion to amend the current CI Criteria statement, “2. Require both written and oral communication” to read “2. Require written and/or oral communication,” and to adopt this new language proposed by the CI committee clarifying “Oral Communication.” The motion replaces this section of the CI Criteria


“Oral Communication:
Students may communicate orally in a wide variety of formats. Some examples include the following:
1. Make a formal presentation to a class or subgroup of a class, an outside audience, or the instructor.
2. Make a formal presentation using video formator other presentation software.
3. Perform in a dramatic presentation or other oral reading.
4. Participate in structured in-class debates with assigned roles.
5. Lead structured discussions synthesizing class materials and audience responses.”

With this:

“Oral Communication:
Each applicant for the CI designation stressing oral communication should explain how the course in question gives students practice, feedback, and/or instruction in oral communication relevant and useful to the specific discipline. The following are some
ways oral communication has been incorporated into courses, but this is not a complete list. The Communication Committee welcomes the use of discipline-appropriate ways of meeting the CI goals.

Students may communicate orally in a wide variety of formats. Some examples include the following:
1. Make a formal presentation to a class or subgroup of a class, an outside audience, or the instructor.
2. Make a formal presentation using video format or other presentation software.
3. Perform in a dramatic presentation or other oral reading.
4. Participate in structured in-class debates with assigned roles.
5. Lead structured discussions by doing such things as introducing the reading, synthesizing class materials and audience responses, summarizing at the end of class, or reading and paraphrasing important but not required articles.
6. Have the class join or create a mock-conference with poster or PowerPoint presentations.
7. Create podcasts or YouTube videos.”

Moved by Dawn Kirby. Seconded by Karen Mock. Vote = 8 yea 4 nay. Motion carries.

Proposed revisions of the Regents’ policy 470 Governing Gen Ed
The Regents’ General Education Task Force is looking at possible revisions in the Regents’ policy governing general education. In particular, the Task Force is looking at incorporating clear outcomes for Gen Ed areas. The Task Force is inviting feedback from USHE institutions. The current policy is found at http://higheredutah.org/wp-content/uploads/2014/05/R470-04_16.pdf/ (see attached).

Water Cluster for Gen Ed
We are exploring creating a Gen Ed pathway that focuses on water. All courses used would be existing courses. Invitations are going out to faculty soon, and any member of the Gen Ed Subcommittee who would like to be involved should let Norm know. Mary Leavitt asked to be included and attend meetings regarding the Water Cluster for Gen Ed.

III. Other Business
N/A

Adjourned at 3:25 pm
EDUCATIONAL POLICIES COMMITTEE MINUTES

5 February 2015

A meeting of the Educational Policies Committee was held on 5 February 2015 at 3:00 pm in Old Main 136 (Champ Hall Conference Room)

Present: Larry Smith, Chair
Michele Hillard, Secretary
Richard Mueller, College of Science
Roland Squire, Registrar’s Office
Kevin Olson, Caine College of the Arts
Ed Reeve, Curriculum Subcommittee Chair
Melanie Nelson, USU-Eastern
Nathan Straight, Regional Campuses
Norm Jones, General Education Subcommittee Chair
Kelly Fadel, Huntsman School of Business
Thom Fronk, Engineering
Scott Bates, Academic Standards Subcommittee Chair
Janet Anderson, Provost’s Office

Absent: Scott DeBerard, Graduate Council
Derek Hastings, Graduate Studies Senator
Doug Fiefia, USUSA President
Karen Mock, Quinney College of Natural Resources
Jared Schultz, Education and Human Services
Kacy Lundstrom, Libraries
Heidi Kesler, Curriculum Retention
Eddy Berry, Humanities and Social Sciences

Visitors: Dawn Kirby, Assoc. Dean, Humanities and Social Sciences
Sean Michael, Department Head, Landscape Architecture and Environmental Planning
Michael Freeman, Associate Department Head, Teacher Education and Leadership
Lindsey Shirley, Associate Professor, Family and Consumer Sciences Education

I. Approval of the minutes of the 8 January 2015 meeting (see attached)
   Approved

II. Subcommittee Reports
   Motion to approve made by Richard Mueller. Seconded by Norm Jones.

a. Curriculum Subcommittee (Ed Reeve)

   Course Approvals

   Request from the Department of Instructional Technology and Learning Sciences to rename the Master of Education to Master of Education in Educational Technology and Learning Sciences. (see attached)
Request from the Department of Instructional Technology and Learning Sciences to discontinue all specializations affiliated with the Education Specialist and the Master of Science degree programs. (see attached)

Request from the School of Teacher Education and Leadership for a specialization in Higher Education/Student Affairs within the existing Master of Education degree. (see attached)

Request from the Department of Plants, Soils, and Climate to offer a Landscape Management Certificate.  
*This proposal was put on hold pending further clarification and approval.*

Request from the School of Applied Sciences, Technology, and Education to offer a Bachelor of Science degree in Outdoor Product Design and Development. (see attached)

The Curriculum Subcommittee also discussed the deadlines for submitting to the Curriculum agenda. Deadlines will be put in place and adhered to once Curriculog is in place.

b. **Academic Standards Subcommittee** (Scott Bates)

   No January meeting – Nothing to report.

c. **General Education Subcommittee** (Norm Jones)

   *Motion to approve made by Jared Schultz. Seconded by Kevin Olson.*

   January 20, 2015, 8:30 A.M.
   Champ Hall Conference Room

   Present: Norm Jones, Chair; Dean Adams, Engineering; Janet Anderson, Provost’s Office; Eddy Berry, Social Sciences; Lawrence Culver, American Institutions; Dan Coster, Quantitative Intensive; Stephanie Hamblin, University Advising; Harrison Kleiner, Connections; Mary Leavitt, Advising; Kacy Lundstrom, Library; Kris Miller, Honors; Melanie Nelson, USU Eastern; Lee Rickords, Agriculture and Applied Sciences; Michele Hillard, Secretary; Larry Smith, Provost’s Office; Brock Dethier, Writing Program; Cindy Dewey, Creative Arts; Dawn Kirby, Humanities and Social Sciences; John Mortensen, Student Services

   Absent: Kathy Chudoba, Business; Shelley Lindauer, Education and Human Services; Ryan Dupont, Life and Physical Sciences; Doug Fiefia, USUAS President; Laura Gelfand, Arts; Brian McCuskey, Humanities; Karen Mock, Natural Resources; Bob Mueller, Regional Campus; Dick Mueller, Science;
Call to Order – Norm Jones

Approval of Minutes – December 9, 2014
Motion to approve minutes from December 9, 2014 made by Dawn Kirby. Seconded by Dean Adams.

Course Approvals
N/A

Course/Designation Removals
N/A

Syllabi Approvals
ART 1020 (BCA) Mark Koven APPROVED ......................................... Cindy Dewey
Motion to approve made by Cindy Dewey. Seconded by Dawn Kirby.

HIST 4251 (DHA) APPROVED ......................................................... Brian McCuskey
Motion to approve made by Cindy Dewey. Seconded by Eddy Berry.

HIST 4815 (DHA) APPROVED ........................................................ Brian McCuskey
Motion to approve made by Cindy Dewey. Seconded by Eddy Berry.

LAEP 2300 (BHU) WITHDRAWN ..................................................... Brian McCuskey
BHU subcommittee does not think that this meets the BHU criteria. Suggested it be resubmitted as a BCA.

NDFS 1010 (BPS) APPROVED ............................................................ Ryan Dupont
Motion to approve made by Cindy Dewey. Seconded by Dawn Kirby.

PHIL 4410 (DHA) Charlie Huenemann PENDING ......................... Brian McCuskey

Business
Caine College of the Arts Course Designations (Prerequisites) - The CCA is proposing that the following courses have the pre-requisite of being a major in the department in order to take the course. They would not be open to non-majors. This raises the policy issue of whether a general education course may have acceptance into a major as a prerequisite, barring students who are not in that major from taking a course that has a Gen Ed designation.

MUSC 1110 (BCA)
THEA 1033 (BCA)
THEA 1513 (BCA)
THEA 1713 (BHU)

Would the CCA be better advised to apply this policy from the General Catalog?
“Exceptions may be made to satisfy the breadth requirement within a major’s categorization. For example, in order to accommodate students within majors or minors not offering an approved Breadth course, an advisor may allow substitution of a higher-numbered course (i.e., a higher numbered Physics class might be used to satisfy the Physical Sciences requirement for an Engineering major). In order to accommodate students within majors or minors offering an approved Breadth course, but for which a student is required to take a significant amount of coursework within the subject matter that does not include the approved Breadth course, an advisor may allow a substitution of a higher-numbered course (i.e., a higher-numbered Music class might be used to satisfy the Creative Arts requirement for a Music major).”

Motion to withdraw the prerequisite request from the EPC and encourage managed enrollment through "majors only" section controls made by Dawn Kirby. Seconded by Eddy Berry. Motion approved.

Communications Intensive course policy modifications were proposed by the CI subcommittee, concerning the oral communication expectations – Brock Dethier

Oral Communication:

Students may communicate orally in a wide variety of formats. Some examples include the following:

Each applicant for the CI designation should explain how the course in question gives students practice, feedback, and/or instruction in oral communication relevant and useful to the specific discipline. The following are some ways oral communication has been incorporated into courses, but this is not a complete list. The Communication Committee welcomes the use of discipline-appropriate ways of meeting the CI goals.

1. Make a formal presentation to a class or subgroup of a class, an outside audience, or the instructor.
2. Make a formal presentation using video format or other presentation software.
3. Perform in a dramatic presentation or other oral reading.
4. Participate in structured in-class debates with assigned roles.
5. Lead structured discussions by doing such things as introducing the reading, synthesizing class materials and audience responses, summarizing at the end of class, or reading and paraphrasing important but not required articles.
6. Have the class join or create a mock-conference with poster or PowerPoint presentations.
7. Create podcasts or YouTube videos.

Discussions on whether to change the policy wording requiring both written and oral communication back to “and/or” for the CI requirements.

There are concerns about the impact on course supply if we insist on oral as well as written in all CI courses. Not all faculty, or courses, can offer good oral experiences. It is unclear if current CI courses are providing good oral experiences. On the other
hand, it is recognized that a quality degree should prepare students to communicate orally as well as in writing. The proposed language presumes majors do require written and oral proficiency, and the GE committee should let them explain how this occurs. The committee thought it would be a good idea to have the CI subcommittee attend the February meeting and provide additional information regarding this subject. Members of the GE committee are to explore the problem in their particular contexts.

*Motion to table this item until February made by Cindy Dewey. Seconded by Dan Coster.*

Meeting adjourned at 9:31 am

III. Other Business

Meeting Adjourned: 3:18 pm
Institution Submitting Request: Utah State University
Proposed Title: PhD in Neuroscience
School or Division or Location: Emma Eccles Jones College of Education and Human Services
Department(s) or Area(s) Location: Department of Psychology
Recommended Classification of Instructional Programs (CIP) Code\(^1\) : 26.1501
Proposed Beginning Date: August 31, 2015
Institutional Board of Trustees’ Approval Date: MM/DD/YEAR

Proposal Type (check all that apply):

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<th>SECTION NO.</th>
<th>ITEM</th>
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<td>4.1.1</td>
<td>(AAS) Associate of Applied Science Degree</td>
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<td>(AA) Associate of Arts Degree</td>
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<td>(AS) Associate of Science Degree</td>
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<td>(CER C) Certificate of Completion</td>
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<td>5.2.4</td>
<td>Fast Tracked Certificate</td>
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Chief Academic Officer (or Designee) Signature:
I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

Signature
Date: MM/DD/YEAR
Printed Name: Name of CAO or Designee

\(^1\) CIP codes must be recommended by the submitting institution. For CIP code classifications, please see http://nces.ed.gov/ipeds/cipcode/Default.aspx?y=55.
Program Description
Utah State University (USU), Emma Eccles Jones College of Education and Human Services, proposes to offer an interdisciplinary doctoral program in neuroscience. The primary goal of the doctoral program in neuroscience is to provide students with a comprehensive and well-rounded background in cellular, cognitive, and behavioral neuroscience. Students will apply critical theories and discoveries in neuroscience to unanswered questions about normal and disordered processes of sensation, movement, cognition, language, and communication across the lifespan. This goal will be accomplished through a core set of neuroscience courses, advanced electives, and laboratory experiences.

Role and Mission Fit
The proposed doctoral program in neuroscience is consistent with USU's mission “to discover, create, and transmit knowledge through education and training programs at the undergraduate, graduate, and professional levels; through research and development; and through service and extension programs” (R312, 4.1.1). This program specifically addresses USU's goals and objectives for strengthening the graduate program. In addition, the goals of discovery and promotion of excellence in research and scholarship are consistent with this program's focus on producing strong researchers in the neuroscience area. The doctoral program in neuroscience will serve the public need for increased information about neuroscience and a new cadre of researchers who can translate basic discoveries in neuroscience to solving problems in education and rehabilitation.

Faculty
The Neuroscience PhD program will be strongly interdisciplinary, involving faculty in the departments of: Psychology; Biology; Communicative Disorders and Deaf Education; Health, Physical Education, and Recreation; Mathematics and Statistics; Biological Engineering; and Family, Consumer and Human Development. Members of the core faculty are actively engaged in a wide variety of basic and translational neuroscience research projects in the areas of cellular structures, language development, cognitive development, motor development, information processing, memory, decision-making, learning, and teaching. These studies relate to the broad areas of education, child development, and normal aging as well as to individual assessment and treatment practices for patients with neurodevelopmental, neurogenic, and neurocognitive disorders.

Market Demand
Neuroscience is one of the fastest growing areas of research around the world, resulting in an increased demand for doctoral-level graduates to fill a growing number of research, teaching and clinical practice positions in universities, hospitals, and rehabilitation centers. Neuroscience research covers a broad spectrum including molecular and cellular neurobiology, integrative neuroscience, brain imaging, and rehabilitation of individuals with neurological and neurodevelopmental disorders. As a result, the scope of neuroscience and the demand for neuroscience education have grown exponentially. A recent paper that appeared in the journal, Nature Neuroscience pointed out that there are numerous disconnects between current findings in neuroscience and educational beliefs and practices. There is a strong need for a new field of inquiry that is dedicated to bridging the gaps between education and neuroscience in order to inform
the understanding of teaching and learning. Neuroscience has much to offer attitudes and approaches in education and human services, and this new program is poised to be at the forefront of this exciting new movement.

**Student Demand**
There is a strong student demand for neuroscience doctoral programs. The desire to provide programs that students are interested in makes neuroscience programs common in research universities like USU. However, Utah lags other states in the region with regard to providing student access to neuroscience education. For example, the state of Colorado has 97,687 students in 14 universities (http://highered.colorado.gov/Data/Reports.aspx), and there are three Neuroscience PhD programs in the state (the University of Colorado-Denver, the University of Colorado-Boulder and Colorado State University). In Utah, there are 92,882 students in the seven public universities that compose the Utah System of Higher Education, but there is only one Neuroscience PhD program (the University of Utah). That program only admits 12 students per year out of the more than 200 applicants. Clearly, students in Colorado have much more access to neuroscience education than students in Utah, and the number of applicants even within the state far surpasses the current capacity.

**Statement of Financial Support**

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The full-time PhD graduate students in this program will receive graduate research or graduate teaching assistantships to help finance their education. The research assistantships will be supported by grants and contracts initiated by the core neuroscience faculty. These grants and contracts will also provide research equipment, materials, and supplies used by the students in their courses and research associated with the PhD degree. In addition, teaching assistantships will be provided by the departments of participating faculty.

**Similar Programs Already Offered in the USHE**

Interdepartmental Program in Neuroscience, University of Utah
Section I: The Request

Utah State University requests approval to offer a PhD in Neuroscience effective Fall 2015. This program has been approved by the institutional Board of Trustees on Date.

Section II: Program Description

Complete Program Description
The primary goal of the doctoral program in neuroscience is to provide students with a strong educational and research foundation in cellular, cognitive, and behavioral neuroscience. Students will apply critical concepts in neuroscience to understanding normal and disordered processes of sensation, movement, cognition, language, and communication across the lifespan. This goal will be accomplished through a core set of neuroscience courses, advanced electives, and laboratory experiences. Students in the neuroscience doctoral program are expected to align themselves with a focus area. Currently, these include Translational Neuroscience, Educational Neuroscience, and Lifespan Neuroscience. The program will produce experts in experimental and applied research across a variety of academic disciplines.

Purpose of Degree
The neuroscience PhD program at Utah State University will be strongly interdisciplinary, involving faculty in Psychology; Biology; Communicative Disorders and Deaf Education; Health, Physical Education, and Recreation; Mathematics and Statistics; Electrical and Computer Engineering; and Family, Consumer and Human development. The Neuroscience PhD program will serve to connect faculty and students who are currently engaged in neuroscience research related to sensation, information processing, memory, decision-making, language development, cognitive development, motor development, aging, as well as applied clinical neuroscience related to neurodevelopmental, neurogenic, and neurocognitive disorders.

Students in the interdisciplinary neuroscience PhD Program will learn the theoretical, conceptual, and methodological issues involved in neuroscience research within one of three focus areas: Translational Neuroscience, Educational Neuroscience or Lifespan Neuroscience. The Translational Neuroscience focus area emphasizes understanding the signal transduction pathways underlying neurophysiological function in normal and disease states at the molecular, cellular, tissue, system, and organism levels. Students will understand trans-disease processes related to core brain functions that are required for appropriate behavioral regulation, attention, memory, and decision-making. Translational research experiences will combine approaches in genetics, biophysics, electrophysiology, functional imaging, and behavioral analyses in order to explore the mechanisms underlying normal and aberrant neuronal function in a variety of systems across the lifespan. Students will explore the use of animal models as a means for examining underlying causes of neurodevelopmental and neuropsychological disorders starting at the genetic level, working up through fundamental brain functioning, and then observing how these processes are impacted by individual experience throughout the lifespan. Students in this focus area will also understand neurocognitive and neurophysical abnormalities that are the source of a wide range of human disorders including depression, schizophrenia, autism, attention deficit disorder, anxiety, drug addiction, communication disorders, and others.
The Educational Neuroscience focus area is designed to apply the principles of behavioral, cognitive, and biological neuroscience to core problems in education related to cognition, socialization, learning, and/or teaching. Students will explore the anatomical and functional neurological mechanisms that contribute to cognition, language, and literacy development, as well as the relationships between neural activation patterns and children's performance on cognitive, linguistic, communicative, and literacy tasks. This focus area is also designed to help students understand the neurophysiological, neurobiological, and environmental contributions to sensory disorders, intellectual disabilities, communication disorders, learning disabilities, autism spectrum disorders, and motor disorders in children. Students will learn how to combine behavioral experimentation methods with neuroimaging methods (Near Infrared Spectroscopy, EEG, eye-tracking, and pupillometry) to examine processes involved in accessing, manipulating, storing, retrieving, and classifying information and associated changes in activation patterns across micro- and macro-brain structures during information processing tasks. New advances in translational research and research on the principles of neuroplasticity will lead to greater understanding of the best ways to promote brain changes through language, literacy, and STEM education. Research on educational neuroscience should lead to innovative perspectives on the integration of basic research and educational practices and to the development of sound education policies.

The Lifespan Neuroscience focus area will emphasize the study of changes in central and peripheral nervous system structures from infancy to late adulthood with corresponding effects on behavior in domains such as cognition, language and emotion. This focus area includes the neuroscience of movement and how the motor system interacts with sensory, perception, and cognitive systems. Normative changes in attention, memory, executive functions, and other cognitive processes will be juxtaposed with pathological conditions. Areas of study include normal aging; language and communication disorders; movement variability; movement timing/sequences; motor planning; motor learning; and functional recovery in populations with disorders and disabilities such as aphasia, apraxia, Alzheimer's disease, and other dementias. Students may focus on neuropsychological assessment of speech, language, and cognitive-communicative functions; variability across different linguistic populations; and language treatment following stroke, traumatic brain injury, neurosurgery, and degenerative disorders. Course work and research experiences may examine the role of genes, environmental factors, and gene-environment interactions in normal aging, disease-free survival and longevity, as well as examining factors that increase risk for depression and disease states that occur in late-life. In addition to foundational courses in neuroscience, seminars will be offered that are specific to each specialty area.

In their courses, students will develop an appreciation of the cognitive factors that influence patterns of brain activation in human and animal models, and they will learn about the effects of disease on brain anatomy and integrity. In their lab rotations, students will gain hands-on experience with data acquisition, data processing, statistical analysis, and visualization techniques related to research on brain structures and functions before, during, and after neurorehabilitation. Upon completion of the program, students will be prepared to design and conduct state-of-the-art neuroscience research that employs a variety of neuroimaging methods and that contributes to the solution of educational, medical, social, and vocational problems.

**Institutional Readiness**
Current administrative structures that support graduate programs, including supports from the Office of Research and Graduate Studies as well as college and departmental infrastructures that are already in place will be used to support this program. No new supports or organizational structures are needed. This neuroscience program will be an interdisciplinary program but will be administratively housed in the
Psychology Department. The staff resources (e.g., Graduate Program Coordinator) already in place will be used to support this program. This proposed program will have minimal impact on the delivery of undergraduate courses. Some of the courses currently being taught, that will be part of this program, are open to advanced undergraduate students but this slight increase in offerings for undergraduates will be the only impact on undergraduate programs.

**Program Faculty**

The numbers in the below table reflect faculty across the seven departments involved in the program. Because this program is interdisciplinary, only program faculty (and not all faculty in the seven participating departments) are reflected in this table.

<table>
<thead>
<tr>
<th>Program Faculty Category</th>
<th>Faculty Headcount – Prior to Program Implementation*</th>
<th>Faculty Additions to Support Program</th>
<th>Faculty Headcount at Full Program Implementation*</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Doctoral Degrees (Including MFA and other terminal degrees, as specified by the institution)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td>12</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td>7</td>
<td>0</td>
<td>7</td>
</tr>
<tr>
<td>Part-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>With Master’s Degrees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>With Bachelor’s Degrees</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Other</td>
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</tr>
<tr>
<td>Full-time Tenured</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Headcount Faculty</td>
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<td></td>
</tr>
<tr>
<td>Full-time Tenured</td>
<td>12</td>
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<td>12</td>
</tr>
<tr>
<td>Full-time Non-Tenured</td>
<td>7</td>
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<tr>
<td>Part-time Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Part-time Non-Tenured</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Total Program Faculty FTE** (As reported in the most recent A-1/S-11 Institutional Cost Study for “prior to program implementation” and using the A-1/S-11 Cost Study Definition for the projected “at full program implementation.”) 19

*These numbers reflect faculty across the seven participating departments. Only faculty who will be involved in the Neuroscience PhD program are included.
No new lines are required for this program as existing faculty can cover program needs. However, additional faculty lines would strengthen the program in terms of diversity of course offerings and lab experiences. Opportunities for targeted hires in the neuroscience area will be explored over time.

Staff
Existing staff will be utilized to provide support to the neuroscience program. Although interdisciplinary, the program will be housed in the Psychology Department where the current staff can provide support for admissions, student tracking, etc. As with all doctoral-level program advising, advising duties will be carried by individual faculty mentors as well as the program steering committee which will be comprised of all faculty involved in the Neuroscience PhD program.

Library and Information Resources
No additional library resources will be needed to support this program. Key journals in the neuroscience area (e.g., Cognitive Neuroscience, Journal of Neuroscience, Annals of Neurology, Neuropathology, Neuroscience Research, Neurobiology of Learning and Memory, Current Topics In Behavioral Neurosciences, Neuroscience and Biobehavioral Reviews, Trends in Neurosciences and Annals Of Neurology, Nature Neuroscience) are available digitally at USU's library.

Admission Requirements
Prospective students will submit the standard graduate school application through the School of Graduate Studies. Admissions criteria will be consistent with graduate school requirements, including a 3.0 (or higher) GPA for the last 60 credits and GRE scores for the verbal and quantitative areas at the 40th percentile or above. Students will also submit a statement of interest / letter of intent that should address their fit with the program in terms of research interests that are consistent with current faculty in the program.

Student Advisement
Students will be assigned a faculty advisor at the time they are admitted to the program. This faculty member will remain the student’s primary advisor through the student’s time in the program. Each student’s progress in the program will be reviewed annually by all program faculty in a student review meeting. Students will receive written feedback on their progress following this meeting. The feedback will address progress in the areas of:

- Research skills and progress
- Progress toward completion of the program
- Didactic coursework
- Assistantship performance
- Other accomplishments and/or concerns

Justification for Graduation Standards and Number of Credits
Students entering the program with a bachelor’s degree will be required to earn a minimum of 64 credits for graduation. Students entering with a master’s degree must earn a minimum of 44 credits. This credit requirement is consistent with other doctoral programs in the sciences at USU and with neuroscience programs across the nation in which the majority of the teaching occurs in the laboratory rather than the classroom. Students will complete 20 hours of core neuroscience courses, 11 hours of statistics and research design, 9 hours of general electives, 12 hours of advanced electives in one of three focus areas, a minimum of 2 lab rotations, qualifying exams, and 12 hours of dissertation credits for a total of 64 credits.
post bachelors. The total credit requirement is similar to Boston University and the University of Utah. This credit requirement exceeds that of many doctoral programs in the neurosciences including the University of Colorado at Boulder, Georgetown University, and the University of Montana. The proposed program requires fewer credits than Colorado State University, The University of Wyoming, and the University of Idaho, primarily because in the proposed program students earn fewer graduate credits for their lab experiences and will be required to take fewer dissertation credits.

**External Review and Accreditation**
There are currently no agencies or associations that accredit programs such as this one. No external consultants were involved in the development of the proposed program.

**Projected Program Enrollment and Graduates; Projected Faculty/Students**

<table>
<thead>
<tr>
<th>Data Category</th>
<th>Current – Prior to New Program Implementation*</th>
<th>PROJ YR 1</th>
<th>PROJ YR 2</th>
<th>PROJ YR 3</th>
<th>PROJ YR 4</th>
<th>PROJ YR 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Graduates in Proposed Program</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>Total # of Declared Majors in Proposed Program</td>
<td>X</td>
<td>3</td>
<td>6</td>
<td>9</td>
<td>12</td>
<td>15</td>
</tr>
</tbody>
</table>

**Program Data**

<table>
<thead>
<tr>
<th>Data Category</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Program Faculty FTE (as reported in Faculty table above)</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
<td>19</td>
</tr>
<tr>
<td>Total Program Student FTE (Based on Fall Third Week)</td>
<td>N/A</td>
<td>3</td>
<td>6</td>
<td>9</td>
<td>12</td>
<td>15</td>
</tr>
<tr>
<td>Student FTE per Faculty FTE (ratio of Total Program Faculty FTE and Total Program Student FTE above)</td>
<td>N/A</td>
<td>6.33</td>
<td>3.17</td>
<td>2.11</td>
<td>1.58</td>
<td>1.23</td>
</tr>
</tbody>
</table>

Program accreditation-required ratio of Student FTE/Faculty FTE, if applicable: (Provide ratio here: N/A)

*Because this program is new and across different departments, data prior to program implementation cannot be calculated. Projected data reflect student numbers only in this program. It is acknowledged that faculty within this program will also be working with other undergraduate and graduate students outside this program.

Consistent with lab-based graduate programs, entering classes for this program will be small – especially in initial years. It is anticipated that 3-4 new students will enroll each fall. Students entering with bachelor’s degrees should be able to complete all requirements for the PhD within 5 years.

**Expansion of Existing Program**
This program is a new interdisciplinary PhD program and not an expansion or extension of an existing program.
Section III: Need

Program Need
Neuroscience is one of the fastest growing areas of research around the world, resulting in an increased demand for doctoral-level graduates to fill research and teaching positions. As reported by the Society for Neuroscience in the 2011 survey of graduate programs, only 2% of neuroscience program graduates were not employed after graduation and all of those who were employed were in a neuroscience field. Neuroscience research covers a broad spectrum including biophysics, molecular and cellular neurobiology, neuronal development, neuronal degeneration, integrative neuroscience, brain imaging, and neurological and neurodevelopmental disorders. As a result, the scope of neuroscience and the demand for neuroscience education has grown exponentially. As reported by the Society for Neuroscience in their 2011 survey, applicant numbers per neuroscience program averaged 88 (with programs admitting less than a quarter of these students) a significant increase from the average of approximately 22 in 1986.

In a recent paper that appeared in Nature Neuroscience, Paul Howard-Jones (2014) pointed out that there are numerous disconnects between current findings in neuroscience and educational beliefs and practices. Howard-Jones recognized a need for increased communication between educators and neuroscientists and called for a new field of inquiry that is dedicated to bridging the gaps between education and neuroscience in order to inform our understanding of teaching and learning. Neuroscience has much to offer educational attitudes and approaches, and this proposed program is poised to be at the forefront of this exciting new movement.

There is a strong student demand for neuroscience doctoral programs. Within the intermountain region, there are PhD neuroscience programs at the University of Colorado-Denver, the University of Colorado-Boulder, Colorado State University, the University of Montana, the University of Idaho, the University of Wyoming, and the University of Utah. Student demand and the desire to provide programs that students are interested in make neuroscience programs common in research universities like USU. However, none of the existing programs in the intermountain region are housed in a College of Education and Human Services with a focus on making neuroscience discoveries relevant to educators and human services professionals. The three foci in the proposed program, bridging basic and applied neuroscience across the lifespan, are unique to this proposed program.

As one of Utah’s two state-supported research universities, Utah State University has focused on hiring strong faculty who conduct cutting-edge research. The proposed PhD program in neuroscience, in addition to adding research strength to the University with a new PhD, will also complement and strengthen current University programs in the Emma Eccles Jones College of Education and Human Services and the College of Science. Faculty and students across departments in these colleges are already collaborating on research in the area of neuroscience. The PhD program in neuroscience will bring these faculty and students together into one program, increasing opportunities for cross-disciplinary learning and collaboration.

Labor Market Demand
In November 2014, Indeed.com listed 598 neuroscience jobs that were available in the US. The Society for Neuroscience listed 341 available jobs in neuroscience. These were largely tenure-track openings in university departments of medicine, biology, bioengineering, neuroscience, or psychology but they are also in private industry and research institutes. According to Indeed.com, 205 openings in neuroscience pay
between $80,000 and $99,000, 128 openings pay between $100,000 and $119,000, and 97 openings pay $120,000 or above. The Neuroscience PhD graduation rate at the University of Utah is approximately 75%. Between 2006 and 2012, 51% of their graduates went on to Postdoc positions or other post graduate school studies, 18% went into Law or Medicine, 10% went into academia as faculty, 8% entered academia as research associates, 3% went into industry, and 3% took non-science positions.

The proposed PhD program in neuroscience will respond to the growing need for neuroscientists, especially those with expertise in applying basic neuroscience discoveries to clinical, behavioral and educational topics and questions. Given the current job market demand as well as the placement rates from the University of Utah’s program, it is expected that graduates of USU’s program will be well-positioned to move into postdoctoral and other professional positions.

Student Demand
Utah lags other states in the region with regard to providing student access to neuroscience education. For example, the state of Colorado has 97,687 students in 14 universities (http://highered.colorado.gov/Data/Reports.aspx) with three Neuroscience PhD programs in the state (the University of Colorado-Denver, the University of Colorado-Boulder and Colorado State University). In Utah, there are 92,882 students in the seven public universities that compose the Utah System of Higher Education, but there is only one Neuroscience PhD program (the University of Utah). That program only admits 12 students per year out the more than 200 applicants. Clearly, students in Colorado have much more access to neuroscience education than students in Utah and the demand for a neuroscience education in Utah cannot be met by the University of Utah alone.

The labs of faculty participating in this proposed neuroscience program contain undergraduate and graduate students who are interested in obtaining knowledge and research skills in neuroscience. There is a need for a doctoral degree that will enable these students to receive research and academic experiences that focus on molecular, cognitive, behavioral, or educational neuroscience. More students wanting a PhD degree in neuroscience will be able to stay in Utah rather than go out of state. This change will help to keep more talented students in Utah for their doctoral degrees.

Similar Programs
There is an Interdepartmental Graduate Program in Neuroscience at the University of Utah. Neuroscience faculty are housed in the departments of Ophthalmology/Visual Science, Neurobiology and Anatomy, Bioengineering, Biology, Pharmacy, Physiology, Pediatrics, Psychiatry, Neurology, and Psychology. Students complete a basic Neuroscience Program Core Curriculum that includes Frontiers in Neuroscience, Cellular and Molecular Neuroscience, Systems Neuroscience, Neuroanatomy for Biomedical Scientists, Neurophysiology Laboratory, Molecular Biology Laboratory, Neuroscience Rotations, and Developmental Neurobiology. Neuroscience PhD students are required to take a quantitative science/statistics course, an ethics course, a grant writing course, three graded elective graduate-level courses and 3 credit hours of ungraded, departmental journal club courses beyond the core curriculum. The faculty and students are divided into five areas of research: Developmental Neuroscience, Molecular Neuroscience, Neurobiology of Disease, Brain and Behavior, and Cellular Neuroscience.

The main difference between the program at the University of Utah and the proposed program at Utah State University is that the curriculum and research experiences at the University of Utah are focused primarily on basic cellular and molecular neuroscience. The program at USU will focus primarily on applied clinical neuroscience. USU faculty and students are studying such issues as how the human nervous
system learns and executes motor skills, how people with Parkinson's Disease plan and execute sequential actions, how neural processing differs among children who are developing typically and children with developmental language disorders, and how neural activation changes in response to memory or language training.

The state of Utah already has one neuroscience program that focuses on basic neurophysiology. There is a need for another program that focuses on translating basic discoveries in neuroscience into clinical knowledge of human development, education, aging, and neurodevelopmental and neurogenic disorders.

Collaboration with and Impact on Other USHE Institutions
On September 29, 2014, Dr. Ron Gillam from USU met with Dr. Richard Dorsky, the head of the interdisciplinary neuroscience program at the University of Utah. Dr. Dorsky and Dr. Gillam discussed the neuroscience program at the University of Utah and the planned program at Utah State University. Dr. Dorsky noted that the two programs would have a different focus. He said there is a strong need for another neuroscience doctoral program in the state, noting there are many more students who apply for the doctoral program in neuroscience at the University of Utah than they can accept. In addition, there are students who are primarily interested in translational or clinical neuroscience who decide to leave the state for other programs. Dr. Dorsky indicated that a cohort of doctoral students at Utah State University who focus on different aspects of neuroscience would increase the participation of students in the intermountain chapter of the Society for Neuroscience. The program at USU would provide collaborative opportunities for students and it would increase the number of potential postdoctoral applicants. Dr. Dorsky did not believe that the addition of a neuroscience program at USU would have any negative impacts on the program at the University of Utah.

Dr. Gillam is currently collaborating on neuroimaging research with Dr. Richard Wiggins, director of Imaging Informatics and Medical Administrator for the Picture Archiving Communication System at the University of Utah. They are working on a project that compares fMRI imaging and fNIRS imaging during memory and attention tasks.

Benefits
The proposed program will benefit the institution by adding to the doctoral program offerings. Given that USU is focused on increasing graduate enrollments, specifically doctoral enrollments, this program will benefit USU. In addition, the focus on interdisciplinary training will benefit programs at USU that are engaged in similar research and training. In terms of benefits to USHE and the state, as noted in the section above, there is a need for additional neuroscience programs in the state to better meet the needs of students interested in studying neuroscience, and especially the more applied aspects of neuroscience.

Consistency with Institutional Mission
This proposed program is consistent with USU's mission to be a premier university with a focus on graduate (as well as undergraduate) education. USU's graduate education goals and objectives include a strengthening of graduate education, which this program will address. In addition, the goals of discovery and promotion of excellence and research and scholarship are consistent with this program's focus on producing strong researchers in the neuroscience area. The doctoral program in neuroscience will serve the public need for increased information about neuroscience.
Section IV: Program and Student Assessment

Program Assessment
The overall goal of this program is to produce neuroscience PhD graduates who will be successful in research and academic settings post-graduation. Data on placement rates of students will be an important metric of success. While in the program, students will be expected to meet certain standards (as described below). Outcomes on these standards will also be used to judge program success.

Expected Standards of Performance
All students will complete a group of core neuroscience courses, as specified below, as well as a variety of specialty courses in their focus area. In addition to coursework, students are also required to engage in applied learning experiences and to produce finished products illustrating their understanding and capability to apply key concepts and skills. These experiences must include involvement in research above and beyond the required Second Year Project and Dissertation project. Students must also complete a series of Professional Milestones, including presenting research at a professional meeting, writing and submitting a grant, and publishing a paper.

Students entering with a baccalaureate degree are expected to complete a Second Year Project within 2 years and the Ph.D. within 5 years. Students entering with a master's degree are expected to complete the requirements for the Ph.D. within 4 years. These students would be expected to take the required courses and electives in the PhD program or have equivalent courses in their MS program. Neuroscience faculty will evaluate the student's MS program to determine which courses will be required to complete the PhD.

All students are required to pass a comprehensive exam before advancement to candidacy for the Ph.D. degree. Students entering with a baccalaureate must pass the comprehensive exam prior to the beginning of their fourth academic year in the program. Students entering with a master's degree must complete the comprehensive exam prior to the beginning of their second academic year in the program.

Section V: Finance

Department Budget
No additional funding is being requested for this program. Current budget figures below are for the Psychology Department only as this is where the program will be housed.
## Projected Instructional Cost/Student Credit Hour

The data contained in this chart are to be used in the Third-Year Follow-Up Report and Cyclical Reviews required by R411.

### Funding Sources

The Neuroscience PhD program will utilize existing faculty and courses at USU. No additional funding is required for this program.

### Three-Year Budget Projection

<table>
<thead>
<tr>
<th>Departmental Data</th>
<th>Current Departmental Budget – Prior to New Program Implementation</th>
<th>Departmental Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Addition to Budget</td>
<td>Total Budget</td>
</tr>
<tr>
<td><strong>Personnel Expense</strong></td>
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<td></td>
</tr>
<tr>
<td>Salaries and Wages</td>
<td>$2,022,789</td>
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<tr>
<td>Benefits</td>
<td>$869,799</td>
<td></td>
</tr>
<tr>
<td><strong>Total Personnel Expense</strong></td>
<td>$2,892,588</td>
<td>$0</td>
</tr>
</tbody>
</table>

| **Non-Personnel Expense** |                       |               |                       |               |                       |               |
| Travel                 |                       |               |                       |               |                       |               |
| Capital                |                       |               |                       |               |                       |               |
| Library                | $72,982               |               |                       |               |                       |               |
| **Total Non-Personnel Expense** | $72,982 |               |                       |               |                       |               |

| **Total Expense (Personnel + Current)** | $2,965,570 | $0 | $0 | $0 | $0 |

| **Departmental Funding** |                       |               |                       |               |                       |               |
| Appropriated Fund | $2,965,570 |               |                       |               |                       |               |
| Other: |                       |               |                       |               |                       |               |
| Special Legislative Appropriation | 0 |               |                       |               |                       |               |
| Grants and Contracts | $3,232,407 |               |                       |               |                       |               |
| Special Fees / Differential Tuition |               |               |                       |               |                       |               |
| **Total Revenue** | $4,076,805 | $0 | $0 | $0 | $0 |

| **Difference** | $3,232407 | $0 | $0 | $0 | $0 |

### Departmental Instructional Cost / Student Credit Hour*

*(as reported in institutional Cost Study for “current” and using the same Cost Study Definition for “projected”)*

| Departmental Instructional Cost / Student Credit Hour* | $228 | $0 | $0 | $0 | $0 |

*Projected Instructional Cost/Student Credit Hour data contained in this chart are to be used in the Third-Year Follow-Up Report and Cyclical Reviews required by R411.*
Reallocation
No reallocation of funds will be needed to support this program.

Impact on Existing Budgets
Budgets in other programs will not be impacted. Many of the classes taught in this program are already being offered in existing programs and there is capacity for additional students. Although faculty engaged in the neuroscience program may have additional advisees, this load will be spread out over multiple faculty members with little or no implications for budgets. Several additional courses will be added for this program but these courses will be incorporated into teaching loads of existing faculty.

Section VI: Program Curriculum

All Program Courses (with New Courses in Bold)

Note that a variety of elective courses across departments are listed. These are examples of courses that could be taken. It is not expected that a large number of students will take any one of these listed classes.

<table>
<thead>
<tr>
<th>Course Prefix and Number</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td><strong>Required Courses</strong></td>
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</tr>
<tr>
<td>BIOL 6100</td>
<td>Cellular and Molecular Neurobiology or *PSY 7810: Fundamentals of Neuroscience I</td>
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<tr>
<td>*PSY 7810: Fundamentals of Neuroscience II</td>
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<td>COMD 7820/PSY 7810: Cognitive Neuroscience</td>
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<td>*PSY 7810: Mechanisms of Neuropsychiatric Diseases</td>
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<tr>
<td>PSYC 7090: Program Seminar</td>
<td>8: 1 per semester</td>
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<tr>
<td>PSY / EDUC 6570: Introduction to Educational and Psychological Research or STAT5200: Design of Experiments</td>
<td>3</td>
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<tr>
<td>PSY / EDUC 6600: Research Design and Analysis 1 or STAT 5710: Intro to Probability</td>
<td>3</td>
<td></td>
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<tr>
<td>PSY / EDUC 7610: Measurement, Design and Analysis 2 or STAT 5720: Intro to Mathematical Statistics</td>
<td>3</td>
<td></td>
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<tr>
<td>USU 6900: Research Integrity</td>
<td>2</td>
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<tr>
<td>PSY 7970/FCHD 7970/PEP 7970/BIOL 7970 (or other 7970): Dissertation</td>
<td>12</td>
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<tr>
<td><strong>Sub-Total</strong></td>
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<th><strong>Elective Courses</strong></th>
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<td>(9 credits from the following)</td>
<td>PSY 7900/COMD 6900/PEP 7900/: Independent Study</td>
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<tr>
<td>PSY 7910/COMD 7910/PEP 7910/FCHD 7060/ BIOL 6910: Independent/Advanced Research</td>
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<tr>
<td>*PSY 7810: Methods in Neuroscience</td>
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<td>BIOL 5210: Cell Biology</td>
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<td>FCHD 7033</td>
<td>Research Methods 3: Dyadic and Longitudinal Data Analysis</td>
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<td>PSY 7670</td>
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<td>PSY 7700/PEP 7070</td>
<td>Grant Writing</td>
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<td>PSY 7790</td>
<td>Multivariate Statistical Analysis II</td>
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<td>STAT 5100</td>
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<td>STAT 6100</td>
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**Focus area options**

**Translational Neuroscience**

(12 credits from the following)

- PSY 7100: Biological Basis of Behavior 3
- COMD 7420: Electrophysiology 3
- *PSY 7810: Neuropsychopharmacology 3
- *PSY 7810: Neuroeconomics 3
- PSY 7820: Neuropsychology: Principles and Assessment 3
- *SPED 7820: Research Instrumentation in Neuroimaging 3
- PSY 6650: Theories of Learning 3
- *PSY 7810: Behavioral Pharmacology 3

**Educational Neuroscience**

(12 credits from the following)

- PSY 6530: Developmental Psychology 3
- FCHD 7520: Development in Childhood 3
- PSY 6650: Theories of Learning 3
- PSY 6600: Cognition and Instruction 3
- PSY 7110: Advanced Theories of Cognitive Psychology 3
- PSY 7820: Neuropsychology: Principles and Assessment 3
- *SPED 7820: Multidisciplinary Seminar on Language and Literacy 3
- *SPED 7820: Research Instrumentation in Neuroimaging 3

**Lifespan Neuroscience**

(12 credits from the following)

- FCHD 7920: Aging Mind – Aging Brain 3
- PSY 7270: Lifespan Psychopathology 3
- PSY 7820: Neuropsychology: Principles and Assessment 3
- COMD 6130: Neural Bases of Cognition and Motor Speech Disorders 3
- COMD 6120: Adult Language Disorders 3
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<th>Credit Hours</th>
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<tr>
<td>COMD 6140</td>
<td>Dysphagia</td>
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<tr>
<td>PEP 6850:</td>
<td>Neural Aspects of Rehabilitation I and II</td>
<td>3</td>
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<tr>
<td>PEP 6860:</td>
<td>Motor Development</td>
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<td>PEP 6840:</td>
<td>Fundamentals of Motor Behavior</td>
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<td>*PEP 7870:</td>
<td>Advanced Motor Behavior Seminar</td>
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<tr>
<td>*PEP 7820:</td>
<td>Variability and Dynamical Systems</td>
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**Sub-Total** 12

**Total Number of Credits** 64

* All PSY classes numbered as 7810 are currently being taught with the exception of the one class in bold.

**Example Program Schedule**

**Year 1**

**Fall Semester – 7 credits**

- Cellular and Molecular Neurobiology or Fundamentals of Neuroscience I – 3
- PSY / EDUC 6570 Introduction to Educational and Psychological Research – 3
  Or
  STAT 5200 Design of Experiments – 3
- Neuroscience Program Seminar – 1
- Lab Rotation #1

**Spring Semester – 7 credits**

- Fundamentals of Neuroscience II – 3
- PSY / EDUC 6600: Research Design and Analysis 1 – 3
  Or
  STAT 5710: Introduction to probability – 3
- Neuroscience Program Seminar - 1
- Lab Rotation #1

**Year 2**

**Fall Semester – 7 credits**
Cognitive Neuroscience – 3

PSY / EDUC 7610 Research Design and Analysis 2 – 3
Or
STAT 5100 Linear Regression - 3

Neuroscience Program Seminar

Lab Rotation #2

Spring Semester – 6 credits
Mechanisms of Neuropsychiatric Diseases – 3
General Elective – 2
Neuroscience Program Seminar – 1
Lab Rotation #2

Year 3
Fall Semester – 6 credits
Research Integrity – 2
Emphasis Area Advanced Elective - 3
Neuroscience Program Seminar – 1

Spring Semester – 7 credits
General Elective – 3
Emphasis Area Advanced Elective – 3
Neuroscience Program Seminar - 1

Year 4
Fall Semester – 6 credits
General Elective – 2
Emphasis Area Advanced Elective – 3
Neuroscience Program Seminar – 1

Spring Semester – 6 credits

Emphasis Area Advanced Elective - 3

General Elective – 2

Neuroscience Program Seminar – 1

Year 5

Fall Semester – 6 credits

Dissertation

Spring Semester – 6 credits

Dissertation

Section VII: Faculty

Psychology

Tim Shahan, PhD – Dr. Shahan's research focuses on fundamental behavioral processes with an emphasis on quantitative theoretical models of conditioning, learning, and behavioral regulation. His research examines how processing of information about rewards and reward-related cues contributes to decision-making, attention, and the persistence goal-directed behavior. Translation of insights from this basic research to problems of human health (e.g., drug addiction, developmental disabilities, mental illness) is a core feature of Dr. Shahan's research program.

Catalin Buhusi, PhD – Dr. Catalin Buhusi uses rodent models to manipulate, visualize, and examine the involvement of the dopaminergic system in normal and abnormal behavior. Current work includes behavioral studies, pharmacological manipulations, and multiple electrode recordings in behaving mice and rats. Computational models are used to integrate the growing body of data relative to the role of the dopamine system in learning, memory, and attention. Research is relevant to psychopathology ranging from Intellectual Disabilities, to Schizophrenia, Parkinson's Disease, and Huntington’s Disease.

Mona Buhusi, PhD – Dr. Mona Buhusi's research aims at (a) understanding how neuronal connectivity relates to normal and abnormal behavior and neuropsychopathology (from neurodevelopmental disorders such as autism and schizophrenia to age-related cognitive and motor deficits), (b) identifying molecules and mechanisms involved in the formation of specific neuronal circuits, and (c) identifying mechanisms of synapse formation, plasticity or maintenance.
JoAnn Tschanz, PhD – Dr. Tschanz’s research interests involve the study of severe cognitive deficits in the elderly. For the past 12 years, she has examined genetic and environmental factors that appear to influence the risk of developing severe cognitive impairments such as dementia of the Alzheimer's type. Recently, Dr. Tschanz has studied diverse topics of aging such as the cognitive correlates of late-life depression, the influence of cardiovascular and cerebrovascular disease on memory and other cognitive abilities, the role of various medications in reducing the risk for Alzheimer's disease, neuroimaging correlates of cognitive impairment, behavioral disturbances in dementia, and the influence of family history of Alzheimer's disease and other genetic factors on an individual's cognitive performance.

Kerry Jordan, PhD – Dr. Jordan directs the Multisensory Cognition Lab. Using various behavioral paradigms and a mobile EEG setup, research in the lab melds cognitive neuroscience, developmental psychology, and education approaches to investigate the brain's representation of number through multiple senses (e.g., vision, audition) in both adults and children. Dr. Jordan researches both what typically developing children know about mathematics behaviorally and also how they process this information in the brain. By mapping early neural processing of mathematics in children, Dr. Jordan and her collaborators ultimately aim to help identify atypical learners who may benefit from early intervention.

Communication Disorders And Deaf Education

Ron Gillam, PhD – Dr. Gillam directs the Language, Education, and Auditory Processing (LEAP) Brain Imaging Lab in the Emma Eccles Jones Early Childhood Education and Research Center. He conducts research on neural processing in children with developmental language disorders, autism, phonological disorders, and academic disorders. His research team uses functional Near Infrared Spectroscopy (NIRS) to assess the extent and variability of neural processing as children engage in information processing, language comprehension, and language production tasks.

Lisa Milman, PhD – Dr. Milman conducts translational research in the area of adult language neuro-rehabilitation. Her research explores how basic theories and discoveries from the fields of neuroscience, psychology, and linguistics can be used to develop innovative assessment and interventions that improve communication and quality of life for individuals affected by aphasia and other neurogenic communication disorders.

Sandra Laing Gillam, PhD – Dr. Laing Gillam conducts research on neural processing in children and adults with neurodevelopmental, speech and language, and phonological processing disorders. She specializes in the development and analysis of tasks that compare the behavioral and neuroimaging data obtained from Near Infrared Spectroscopy (NIRS).

Stephanie Borrie, PhD – Dr. Borrie is the director of the Human Interaction Lab. In this lab she explores how speech disorders arising from neurological origins (e.g., dysarthria) interfere with the mechanisms that underpin speech production, perception, and interpersonal coordination. Her work emphasizes the role of rhythm in communication, and draws from a breadth of disciplines including speech science, neuroscience, cognitive science, psychology, sociolinguistics, and tools from the field of engineering.

Kim Corbin-Lewis, PhD – Dr. Corbin-Lewis specializes in the applied science of dysphagia (swallowing disorders) diagnosis and management using a physiology-based model. She focuses on quantitative and qualitative methods of fluoroscopic imaging interpretation of swallow with the goal of
improving clinical decision-making. She teaches undergraduate and graduate courses in speech science, dysphagia, and disorders of voice.

Health, Physical Education and Recreation (Pathokinesiology Specialization)

Eadric Bressel, PhD – Dr. Bressel's research examines neuromechanical adaptations to therapeutic exercise in healthy and special populations. He has specific interest spine stabilization exercises, determinants of balance, and rehabilitation of chronic conditions such as osteoarthritis using an aquatic environment.

Breanna Studenka, PhD – Dr. Studenka specializes in pathokinesiology. She conducts research on how humans plan for and control movements that occur in sequence, including rhythmic timing, planning of grasping for object manipulation and joint-action, and continuous sensory-motor coupling. Her current research includes movement timing related to visual control and stuttering, the role of social/contextual factors on characteristics of movement variability, and potential therapeutic interventions for persons with movement disorders specifically related to control of sequential, timed movement (Parkinson's Disease).

Sydney Schaefer, PhD – Dr. Schaefer's research focuses on how the human nervous system learns and executes motor skills, and relearns existing ones during motor recovery following neural damage. Dr. Schaefer and her team use noninvasive, behavioral techniques to study the control and learning of functional upper extremity movements, such as reaching, grasping, and object manipulation, as well as balance and posture. Findings from this research provide much-needed evidence for neurorehabilitation in geriatric populations with a number of movement disorders.

Family Consumer and Human Development

Beth Fauth, PhD – Dr. Fauth conducts research on Alzheimer's disease and other dementias; stress processes for caregivers of older adults; and the physical, cognitive, and psychosocial components of late life disability. She teaches undergraduate and graduate courses in aging, including the cognitive and neural changes associated with normative and non-normative aging (e.g. dementia and mild cognitive impairment).

Maria Norton, PhD – Dr. Norton’s research program focuses on geriatric mental health and the psychosocial factors that affect risk for depression and dementia in late-life, including lifestyle choices, stressful life events, social support networks, personality, religiosity, and the extent to which these factors might alter genetic influences. Her current work examines psychosocial stressors across the entire lifespan (e.g. family member deaths, poverty, divorce, teen or unwed pregnancy, widowhood, premature offspring birth) and their association with late-life cognitive health, and the moderating effects of depression and genes. Dr. Norton is also engaged in the development and testing of evidence-based lifestyle behavioral interventions with a multi-disciplinary team (health educator, neuropsychologist, sports educator, nutritionist, therapist, human developmentalist, and gerontologist) to encourage and support middle-aged persons in making and sustaining healthy lifestyle changes towards the goal of lowering risk for Alzheimer's disease.
Biology

Tim Gilbertson, PhD – The main goal of Dr. Gilbertson's research is to understand how information is processed by the nervous system. To accomplish this broad objective, he has focused on investigating the processing of taste stimuli by the peripheral gustatory system. He investigates the mechanisms the body uses to recognize nutrients and how this process is regulated by nutritional need. Current research focuses on the way nutrients, including fats, carbohydrates, and minerals are detected by chemosensory cells in the oral cavity and in several nutrient-sensitive, post-ingestive organs. The research in his laboratory spans from genes through behavior with expertise in molecular biology, proteomics, electrophysiology, imaging, biochemistry, and analysis of behavior.

Brett Adams, PhD – Dr. Adams' research concerns the molecular underpinnings of cell signaling processes. Currently, his laboratory investigates signaling by two small GTPases, Dexras1 and Rhes.

Biological Engineering

Anhong Zhou, PhD – Dr. Zhou is the principal investigator of the Molecular and Cellular Sensing and Imaging Research Laboratory (MCSIRL) in the Department of Biological Engineering. Laboratory research is mainly focused on the integration of state-of-the-art instrumentation methods and new chemo/bio-sensing technologies for biomolecular surface engineering applications.

Mathematics and Statistics

Guifang Fu, PhD – Dr. Fu conducts research on statistical genetics, statistical shape analysis, statistical neural analysis, functional data analysis, and high-dimensional big data modeling. She develops advanced statistical models to analyze data with different background applications such as whole genome association studies, morphological data, Near Infrared Spectroscopy data, and EEG data.
Institution Submitting Request: Utah State University
Proposed Title: NA (request is for removal of previously established program)
Currently Approved Title: Master of Arts (MA) degree in Sociology (request to remove)
School or Division or Location: Sociology Graduate Program
Department(s) or Area(s) Location: Department of Sociology, Social Work and Anthropology
Recommended Classification of Instructional Programs (CIP) Code¹ (for new programs): NA
Current Classification of Instructional Programs (CIP) Code (for existing programs): 45.1101
Proposed Beginning Date (for new programs): 07/01/2015
Institutional Board of Trustees’ Approval Date:
Proposal Type (check all that apply):

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¹Requires “Section V: Program Curriculum” of Abbreviated Template

Chief Academic Officer (or Designee) Signature:
I certify that all required institutional approvals have been obtained prior to submitting this request to the Office of the Commissioner.

__________________________
Signature
Date: __________
Printed Name: Laurens H. Smith, Jr., Executive Senior Vice Provost

Section I: Request

The Sociology Graduate Program at Utah State University requests removal/discontinuation of the Master of Arts (MA) degree in Sociology. Although the MA degree has remained among the list of approved degrees at USU, we have not awarded that degree for many years and have determined that going forward we will not admit students to this degree program. Rather, we have been and will continue to utilize the existing Master of Science (MS) degree program for students entering graduate study in Sociology at that level. This requested change will not have any effect on our existing curriculum or on instructional activities.

Section II: Need

The MA degree has not been used by the Sociology program for many years, and having it remain “on the books” creates potential confusion for graduate program applicants. The Sociology graduate program is heavily focused on research and data analysis skills, which makes the MS degree far more appropriate for our students than the MA degree.

Section III: Institutional Impact

This requested removal of the MA degree option will have no effect on enrollments, in the Sociology program or in any affiliated programs, since that degree option has not been utilized for many years. It will also not have any effects on existing administrative structures, on faculty/staff requirements, or on facilities.

Section IV: Finances

The proposed change will not have any budgetary consequences.

Section V: Program Curriculum

All Program Courses (with New Courses in Bold)
No curricular changes will result from the proposed removal of the MA degree in Sociology at USU.

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<thead>
<tr>
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Program Schedule

NA
Summer Credit-Hour Registration Cap

Debra Baldwin, Instructor from the Department of History, noted:

- During a regular 15-week semester, students are capped at 18 hours before special permissions are needed to bypass registration restrictions.
- I am asking for the same policy to apply to summer term, taking into account the shortened time period versus credit hour enrollment.
- I am asking that the same policy for our 15-week terms be applied to summer blocks and that students are not allowed to overload themselves by registering for more courses than it is feasible to complete in that length of time.

Estimation

Working from her formula, we have:

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<td>1.2</td>
</tr>
<tr>
<td>7</td>
<td>8 *</td>
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</tbody>
</table>

* Rounded

Questions

1. Are there financial aid implications? (i.e., what is full-time status in the summer?)
2. What is the scope of the "problem"? (i.e., what is the distribution of credits taken during the summer term?)
3. How would this sort of change impact graduation rates?
Undergraduate Degree Enrichment Proposal

Undergraduate Degree Enrichment

In some instances, a student who has graduated with a bachelor’s degree may need to return to school to take additional undergraduate courses for employment or other reasons. If the student does not intend to receive a second bachelor’s degree, he or she may apply for Undergraduate Degree Enrichment as a nonmatriculated undergraduate student. If approved, the student may pay undergraduate tuition and fees. Under this option, a maximum of 9 additional undergraduate semester credits may be taken within a 5-year period. Students who wish to take additional undergraduate courses must apply for a second bachelor’s degree or be admitted as a nonmatriculated graduate student and pay graduate tuition.