Graduate Council Curriculum Report

The Graduate Council Curriculum Report (GCCR), which includes all graduate curricular proposals approved through the Graduate Council curricular review process, is published 12 times each calendar year.

Questions/comments regarding the GCCR or its contents may be directed to the Director of Graduate Education Administration.

June 6, 2018

Graduate Degree Programs

CHANGE

Anthropology – change degree requirements for the IUG (College of the Liberal Arts), page 10

Asian Studies – change degree requirements (College of the Liberal Arts), page 26

Biochemistry, Microbiology, and Molecular Biology – change degree requirements (Eberly College of Science), page 39

Biotechnology – change degree requirements and drop the Animal Science-Biotechnology IUG (Eberly College of Science), page 56

Chemistry – change degree requirements and drop option in Chemical Biology (Eberly College of Science), page 68

French – change name to French and Francophone Studies and adopt the Visual Studies dual-title for the Ph.D. degree (College of the Liberal Arts), page 79

Lifelong Learning and Adult Education – change degree requirements (College of Education), page 118
# Graduate Courses

## ADD

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>PREREQUISITES</th>
<th>PROPOSED START</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMD 596</td>
<td>Individual Studies</td>
<td>INDIVIDUAL STUDIES (1-9/Repeatable Max: 9)</td>
<td></td>
<td>FA2018</td>
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<tr>
<td></td>
<td>Creative projects, including non-thesis research, which are supervised on an individual basis and which fall outside the scope of formal courses.</td>
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<tr>
<td>AMD 600</td>
<td>Thesis Research</td>
<td>THESIS RESEARCH (1-15/Repeatable Max: 999)</td>
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<td>Creative projects, including non-thesis research, which are supervised on an individual basis and which fall outside the scope of formal courses.</td>
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<tbody>
<tr>
<td>ARCH 519</td>
<td>Research in Architecture and Urban Design</td>
<td>DESIGN RESEARCH (3)</td>
<td>ARCH 534</td>
<td>FA2018</td>
</tr>
<tr>
<td></td>
<td>This course prepares M. Arch. students to conduct research leading to their design project by looking at foundational methods in the field. It also trains students to identify significant project topics and engage in individual critical research in order to build the intellectual and scholarly armature sustaining the future design that every student will undertake. The target is to raise critical awareness of the social, cultural, economic, and disciplinary complexities in the context of different spatial practices. The course will engage research in architecture in order to find opportunities to make significant claims contributing to the advancement of the field. The course will explore different methodologies, whether based in the humanities or the sciences, in order to inform research paradigms in the discipline of architecture in academic institutions. In addition, the course will explore the specifics of formal speculation as a form of knowledge, as well as the relationship between the discipline and its formal, cultural, and economic past, present, and future.</td>
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<tbody>
<tr>
<td>CEDEV 550</td>
<td>Principles and Practices of Planning</td>
<td>PRIN &amp; PRAC PLANN (3)</td>
<td></td>
<td>FA2018</td>
</tr>
<tr>
<td></td>
<td>This course is an overview of the field of planning. It examines the history of planning and the theories behind it, and the corresponding roles that planners can play in their communities. It establishes the legal framework for planning as a profession, and examines landmark legal cases involving planning and its tools. It provides answers for such questions as: Why do communities plan? How has planning developed as a profession? What is the political context of Planning? What is the role of a planner within their community and government structure? How does planning relate to other disciplines? It also examines the different types and levels of planning, the process of planning, what data needs to be collected, how a comprehensive plan is made and implemented, and who planners must interact with in the course of doing their job. Finally, the course reviews contemporary issues in planning. Throughout, the course attempts to emphasize both the positive and negative impacts of planning.</td>
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FIN 880
Corporate Finance Analytical Research Project
CORP FIN PROJECTS (2)
This capstone course is the culminating experience for the Master of Corporate Finance. The aim of the capstone is to assess students' ability to synthesize and integrate the skills they have developed throughout their course work. This course is structured to support student success in fulfilling program goals and requirements.
The projects students tackle will mirror what they'll encounter on the job as a significant member of the corporate planning strategic management team.
The course integrates topics and methodologies analyzed throughout the program, leading students to understand that corporate strategic analysis, and ultimately, the firm's ability to enhance shareholder value, is a holistic and multifaceted analytical process.
Generally, the capstone course involves strategic financial decision-making and long-term strategic analysis. The course requires students to demonstrate advanced skill at integration and mastery of specific concepts. Specifically: capital structure and cost of capital analysis, financial forecasting, valuation, corporate control, and the environmental factors influencing capital acquisition and allocation. Analysis of the international operations as a multinational firm adds an additional layer of complexity.
PREREQUISITES: BA 831, FIN 577, FIN 855
PROPOSED START: FA2018

FR 546
Discourses on Decadence, 1870-1914
DECADENCE (3)
This interdisciplinary seminar examines notions of decadence in the visual arts and other fields elaborated primarily in French and Francophone contexts between 1880 and 1914. We will alternate an in-depth reading of Joris-Karl Huysmans’ classic text of Decadence, A Rebours (1884), with close study of the visual arts, music, scientific discourse, and historical and philosophical texts in order to identify what were considered by contemporaries the major sources of decadence during that era: among others, ‘new women,’ Jews and other social and ‘racial’ inferiors, democratization, urbanization, and the triumph of scientific and rationalistic thought. We will also examine presumed symptoms of decadence: neurasthenia, declining birth rates, perceived social ‘pathologies’ such as prostitution, crime, and drugs; homosexuality, androgyny, and other supposed sexual ‘perversions’; and psychological conditions such as hysteria. Finally, we will examine what contemporaries considered antidotes to decadence: visits to spas, the cult of heroes, sports, a return to faith. We will analyze how artists and authors of the period – among others, Aubrey Beardsley, Félicien Rops, Edvard Munch, Fernand Knopff, Jean Lorrain, Oscar Wilde, and others – valorized the notion of decadence, celebrating it and making it the touchstone of a key esthetic of the late-nineteenth century, overlapping and echoing other trends and esthetics, such as Symbolism, Art nouveau, the Pre-Raphaelites, Japonism, the Arts and Crafts Movement, Jugendstil, Estheticism, Dandyism, and Snobbism.
PROPOSED START: FA2018

HRER 822
Employee Compensation
COMPENSATION (3)
This course covers one of the main functional areas of Human Resource Management, employee compensation, and prepares students to create and implement effective compensation systems. Compensation systems play a critical role in a variety of ways in creating effective and efficient organizational outcomes. The types and levels of pay are important in an organization’s ability to recruit
talent. Similarly the ability to retain talent, particularly in the context of competitive global markets, is related to the quality of types and levels of compensation. In this latter context, the course will connect compensation to the manner in which HRER professionals are able to support organizational strategy. The course will also provide illustrations of the primary ways in which compensation contributes to the entire talent management process. For example, the course will provide tools to understand the role equity plays in influencing employee satisfaction with pay policies and practices, and the resulting ways in which employees respond to their assessment of such circumstances. In this context students will learn how compensation policies influence employee motivation, satisfaction, and employee engagement, as well as other ways in which HR professionals respond to compensation-related issues (e.g. employees’ perception of unfair pay practices).

PREREQUISITES: HRER 505
PROPOSED START: FA2018

HRER 823
Employee Benefits
BENEFITS (3)
This course covers one of the main functional areas of Human Resource Management, employee benefits, and prepares students to create and implement effective benefit practices consistent with organization strategy.
The course focuses on the systematic assessment required to determine the alignment between employees’ benefit needs and organizational goals, as well as the actual creation of an effective and efficient benefit system. In this regard, students will study various benefit options and special topics in benefits (e.g. benefits for executives, comparative international benefit programs).
PREREQUISITES: HRER 505
PROPOSED START: FA2018

LEAD 863
Ethical Dimensions of Leadership
ETH DIMEN LDRSHP (3)
This course in leadership ethics is designed to examine ethical challenges faced by leaders. The course provides an historical overview of the study of ethics, including the major ethical theories advanced in both Western and non-Western traditions with a particular emphasis on the major alternatives available for the ethical leader in the twenty-first century.
PROPOSED START: SP2019

LLED 870
Teaching Reading & Writing to K-12 English Learners
TEACH R&W TO ELS (3)
This course prepares students to develop reading and writing instruction that supports the academic development of school-aged English learners (ELs) with a primary focus on reading. An overarching goal of the course is to promote an understanding of learning language as a process of expanding linguistic resources to engage in various contexts, with different participants/audiences and for a variety of purposes. Class participants will critically analyze reading/writing theories and research in reference to bilingual/ESL reading/writing practices. As part of this overview, students will analyze and evaluate current second language (L2) reading/writing approaches and strategies in home language (L1) and L2 literacy development. Thus, the course content emphasizes the theoretical underpinnings of and practical applications for integrating language and literacy instruction for diverse ELs.
PROPOSED START: FA2018
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MFE 594</td>
<td>Research Topics</td>
<td>Supervised student activities on research projects identified on an individual or small-group basis. PROPOSED START: FA2018</td>
</tr>
<tr>
<td>MFE 895</td>
<td>Internship</td>
<td>Supervised, professionally oriented, off-campus, non-group instruction including field experiences, practicums, or internships. Written and oral critique of activity is required. PROPOSED START: FA2018</td>
</tr>
<tr>
<td>MFE 896</td>
<td>Individual Studies</td>
<td>Creative projects with a professional orientation, including non-thesis research, that are supervised on an individual basis and which fall outside the scope of formal courses. PROPOSED START: FA2018</td>
</tr>
<tr>
<td>MFE 897</td>
<td>Special Topics</td>
<td>Formal courses given on a topical or special interest subject with a professional orientation that may be offered infrequently; several different topics may be taught in one year or semester. PROPOSED START: FA2018</td>
</tr>
<tr>
<td>MFE 899</td>
<td>Foreign Studies</td>
<td>Courses with a professional orientation offered in foreign countries by individual or group instruction. PROPOSED START: FA2018</td>
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**CHANGE**

**OLD**

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BA 565</td>
<td>Strategic Leadership</td>
<td>This course presents a CEO's perspective on the key opportunities and challenges faced by business leaders as they seek to adapt themselves and their organizations to the evolving business environment. APPROVED START: SU2008</td>
</tr>
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**NEW**

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<tr>
<td>BA 865</td>
<td>Strategic Leadership</td>
<td>This course presents a senior executive perspective on the key opportunities and challenges faced by business leaders. Course content is based on extensive research on the experiences of senior leaders</td>
</tr>
</tbody>
</table>
from major organizations around the world. The lessons from these experiences form the backbone of a
series of discussions on the changing context for setting strategy and leading organizations in an
evolving business environment. Students who complete the course will demonstrate the ability to think
strategically about organizational issues and challenges, develop effective strategies for organizational
performance and success, and shape organizational cultures that facilitate strategy implementation and
organizational change.

OLD
CHEM 519
Materials Chemistry
MATERIALS CHEM (3)
The goal of this course is to provide students with an understanding of the ways in which fundamental
chemical principles are utilized in the field of materials science. The approach is to illustrate the crucial
importance of synthesis and structure-property chemical relationships in the development of new
materials and their utilization in devices. Topics include glasses, oxides and non-ceramics, polymers,
metals, semiconductors, superconductors, hybrid materials, and nanomaterials together with the broad
range of energy-related, electronic, biomedical, and optical devices on which modern civilization
depends. Most of the different types of materials will be discussed, together with approaches to
overcome their limitations.
PREREQUISITES: CHEM 410, CHEM 412 or CHEM 413, CHEM 432, CHEM 474, CHEM 516, CHEM 517,
CHEM 518, CHEM 535 or CHEM 537
APPROVED START: SP2016

NEW
CHEM 519
Materials Chemistry
MATERIALS CHEM (3)
The goal of this course is to provide students with an understanding of the ways in which fundamental
chemical principles are utilized in the field of materials science. The approach is to illustrate the crucial
importance of synthesis and structure-property chemical relationships in the development of new
materials and their utilization in devices. Topics include glasses, oxides and non-ceramics, polymers,
metals, semiconductors, superconductors, hybrid materials, and nanomaterials together with the broad
range of energy-related, electronic, biomedical, and optical devices on which modern civilization
depends. Most of the different types of materials will be discussed, together with approaches to
overcome their limitations.
PREREQUISITES: None

OLD
EA 594
Research Topics
RESEARCH TOPICS (1-18/Repeatable Max: 18)
Supervised student activities on research projects identified on an individual or small group basis.
PREREQUISITES: EA 874, MANGT 515, MANGT 531, MANGT 540
APPROVED START: SU2016
NEW

**EA 594**

Research Topics

RESEARCH TOPICS (1-18/Repeatable Max: 18)

Supervised student activities on research projects identified on an individual or small group basis.

PREREQUISITES: None

OLD

**MGMT 531**

Strategy Implementation and Organizational Change

STRAT IMPL AND CHG (2)

Assess gap between current organization and that needed to implement new strategy or execute change; identify process for closing gap.

APPROVED START: SU2002

NEW

**MGMT 831**

STRAT IMPL AND CHG (2-3)

This course addresses the managerial challenge of strategy implementation, particularly by examining the organizational elements that must be drawn into line to support a strategy, as well as the immense difficulties of changing an organization. As such, the course relies on two overarching frameworks. The first is a model of organizational alignment; the second is a model for managing the change process.

The course will emphasize application and practice, primarily by the use of cases. Students will be asked, class after class, to take the position of a senior manager or an adviser to a manager, and develop answers to questions like these: What’s the real problem here? How are the elements of the problem interconnected? What should be done? How, specifically, should we go about it?

Strategy Implementation and Organizational Change will be relevant for a broad array of students, including those hoping to be managers, consultants, investors, and entrepreneurs. Because the course focuses on changing entire organizations (rather than small parts of organizations), we will be primarily taking the point of view of senior managers. However, our frameworks and tools, and the skills students will develop, will be useful early in their careers, as they face the need to manage change in their own subunits, as well as the need to comprehend and contribute to firm-wide changes.

OLD

**PHS 595B**

Biostatistics Internship

BIOST INTERSHIP (1-18/Repeatable Max: 18)

Supervised, research-oriented, off-campus, nongroup instruction, including field experiences, practicums, or internships.

APPROVED START: FA2017

NEW

**BIOST 595**

Internship

INTERSHIP (1-18/Repeatable Max: 18)

Supervised, research-oriented, off-campus, nongroup instruction, including field experiences, practicums, or internships.
PHS 601
PhD Dissertation
PHD DISSERTATION (0)
PHS 601 is available to full-time PhD candidates who have passed the comprehensive exam and met the two-semester residence requirement.
APPROVED START: SP2014

NEW
BIOST 601
Ph.D. Dissertation
PH.D. DISSERTATION (0)

PHS 895A
Master of Public Health Internship
MPH INTERNSHIP (3-6/Repeatable Max: 6)
Provides Master of Public Health (MPH) degree students with hands-on, real-world experience in the practice of public health.
APPROVED START: FA2017

NEW
PHS 895A
Master of Public Health Internship
MPH INTERNSHIP (1-6/Repeatable Max: 9)
Provides Master of Public Health (MPH) degree students with hands-on, real-world experience in the practice of public health.

OLD
PHS 895B
Advanced Field Experience
ADV FIELD EXP (3-6)
This course provides DrPH degree students with advanced hands-on, practical experience in the practice of public health.
APPROVED START: SP2018

NEW
PHS 895B
Advanced Field Experience
ADV FIELD EXP (1-6/Repeatable Max: 9)
This course provides DrPH degree students with advanced hands-on, practical experience in the practice of public health.

DROP
NURS 512
Nursing Research
NURS RES (3)
A nursing research course with emphasis on research design, critical appraisal and translation of research to improve nursing practice. NURS 512 Nursing Research (3) A nursing research course with emphasis on research design, critical appraisal and translation of research to improve nursing practice. This course provides students with an overview of the role of nursing research in the development of nursing practice as well as sound ethical principles related to the conduction and utilization of nursing research in all areas of health care. Principles guiding the conduction, application and utilization of both qualitative and quantitative studies will be emphasized. Nursing 510 is a prerequisite for the course. Nursing 512 will be offered in the Spring semester and is taken in the second semester of full-time study.

PROPOSED DROP: SP2019
Graduate Council
Program, Option, or Minor Proposal Form

Submit 1 original, signed Graduate Council proposal form and 2 hardcopies of the graduate program proposal document, with a copy of the signed proposal form attached to each proposal copy, to the Office of the Dean of the Graduate School, 211 Kern Building, University Park. For more information about the process, see the Overview of the Graduate Council Curricular Review Process.

The Program Proposal Procedures provide guidance for the development of a graduate program proposal. If you have questions regarding the preparation of a graduate program proposal or how to complete this Graduate Council proposal form, contact the Office of the Dean of the Graduate School.

College/School: Liberal Arts
Department or Instructional Area: Anthropology

New Graduate Program, Option, or Minor: Add

Designation of new graduate program:
Classification of Instructional Programs (CIP) Code:
Designation of new graduate option:
Designation of new graduate minor:

Indicate effective semester:
First semester following approval
Second semester following approval

Existing Graduate Program Option, or Minor: Change Drop
Integrated B.A. in Anthropology/B.A. in Classics and Ancient Mediterranean Studies and M.A. in

Current designation of graduate program: Anthropology
Current designation of graduate option:
Current designation of graduate minor:

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above): Change the IUG program as the M.A. degree requirements are not the same as our master's degree. We are changing the requirements for the IUG to comply with Grad School requirements.

Indicate effective semester:
First semester following approval
Second semester following approval

Submitted by Graduate Program Head

Printed name: Douglass Kennew Date: 3/19/18
Signature:

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:

Printed name: Michael Date: 3/19/18
Signature:

Approved by College/School Dean/Chancellor (or Designee):

Printed name: Scott Kennew Date: 3/20/18
Signature:
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College/School: Liberal Arts
Department or Instructional Area: Anthropology

New Graduate Program, Option, or Minor: Add

Designation of new graduate program:
Classification of Instructional Programs (CIP) Code:
Designation of new graduate option:
Designation of new graduate minor:

Indicate effective semester:
First semester following approval
Second semester following approval

Existing Graduate Program Option, or Minor: Change
Integrated B.S. in Anthropological Science/B.A. in Classics and Ancient Mediterranean Studies
M.A. in Anthropology

Current designation of graduate program:
Current designation of graduate option:
Current designation of graduate minor:

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above): Change the IUG program as the M.A. degree requirements are not the same as our master's degree. We are changing the requirements for the IUG to comply with Grad School requirements.

Indicate effective semester:
First semester following approval
Second semester following approval

Submitted by Graduate Program Head

Doublass Kennedy
Printed name
Signature
Date: 3/19/18

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:

Michael Patnam
Printed name
Signature
Date: 3/19/18

Approved by College/School Dean/Chancellor (or Designee):

D. Scott Bennett
Printed name
Signature
Date: 3/30/18
<table>
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<tr>
<th>Recommendation</th>
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<td>On Behalf of C. Andrew Cole</td>
<td>[Signature]</td>
<td>[Signature]</td>
<td>5/25/2018</td>
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<tr>
<td>On Behalf of M. Kathleen Heid</td>
<td>[Signature]</td>
<td>[Signature]</td>
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<tr>
<td>Noted by Dean of the Graduate School:</td>
<td>[Signature]</td>
<td>Date: 5/25/2018</td>
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<tr>
<td>On Behalf of Regina Vasilatos-Younken</td>
<td>[Signature]</td>
<td>[Signature]</td>
<td>5/25/2018</td>
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</table>
Changes to the following Anthropology-CAMS Integrated Undergraduate Programs

i: Master of Arts (M.A.) in Anthropology with the double major Bachelor of Arts (B.A.) in Classics and Ancient Mediterranean Studies (CAMS) and B.A. in Anthropology

ii: Master of Arts (M.A.) in Anthropology with the double major B.A. in CAMS and Bachelor of Science (B.S.) in Anthropological Science with an Archaeological Science option.

a) Justification for proposed changes:

Under new leadership in the Fall of 2016, the Anthropology Department conducted a review of graduate program requirements and proposed changes to the program that were approved in Spring 2017.

Towards the end of the review, we were required to make changes to our master’s degree that ultimately affected our ANTH/CAMS Integrated Undergraduate (IUG) program. During recent discussions between the two departments, we agreed that the ANTH/CAMS IUG programs needed revisions in order for them to continue to be offered.

In addition to the graduate program changes, coinciding with this proposal are changes at the undergraduate level that will affect both IUG programs. In summary, we are submitting the following proposed changes to the Anthropology-CAMS IUG program.

Our B.S. in Archaeological Science will no longer be offered. It is being replaced with an Anthropological Science major with different options. The Anthropology-CAMS IUG will require students to be enrolled in the B.S. in Anthropological Science with an Archaeological Science option.

b) Table showing old program requirements vs proposed program requirements

Requirements for the Master’s Degree: 30 credits

Prescribed Courses: 30 credits

<table>
<thead>
<tr>
<th>Graduate Course Requirements for the Master’s Degree in Anthropology for the Anthropology –CAMS IUG</th>
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<tbody>
<tr>
<td><strong>Current Requirements</strong></td>
</tr>
<tr>
<td>ANTH 493 (3). Minimum of three credits (assumes completion of a minimum of 3 credits previously as part of the BA or BS).</td>
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<tr>
<td><strong>Proposed Requirements</strong></td>
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<tr>
<td>Two credits of ANTH 541 (1) Current Literature in Integrative Anthropology (2 credits)</td>
</tr>
</tbody>
</table>
### Two credits of ANTH 521 (1) Current Literature in Archaeology (2 credits)

Two seminars in ANTH 545 (3) Seminar in Anthropology as advised (6 credits).

**ANTH 588 (3) Method and Theory in Archaeology (3 credits)**
Select two of the following courses for a total of 6 credits:
- **ANTH 594 (1-15) Research Topics**
- **ANTH 596 (1-9) Individual Studies**
- **ANTH 599 (1-12) Foreign Studies**
- **CAMS 592 (3) Proseminar (3 credits)**
- **CAMS 593 (3-6) Research Seminar (3 credits)**
- **CAMS 596 (1-9) Individual Studies (3 credits)**

**ANTH 494 (1-12) or CAMS 494 (1-12) Research Project (taught jointly between Anthropology and CAMS) (4 credits)**

Thesis Research, ANTH 600 (thesis option) (6 credits)

**Writing Requirement:** completion and approval of the thesis to be filed with the Graduate School in the specified appropriate format.

**Note:** For the foreseeable future (as of spring 2014) CAMS 592 and CAMS 593 will not be offered on a regular basis. Students should discuss with their advisor using CAMS 596 to fulfill this requirement. CAMS 596 is appropriate for students working on Old World research topics for the Anthropology-CAMS IUG when they are taught by archaeologists in CAMS. The appropriateness of these courses needs to be assessed and approved by the student’s dual advisers in Anthropology and CAMS.

### ANTH 560 (3) Ecology, Evolution, and Human Behavior (3 credits)

**ANTH 571 (3) Principles of Human Evolutionary Biology (3 credits)**

**ANTH 588 Method and Theory in Archaeology (3 credits)**

Select three of the following courses for a total of 9 credits:
- **ANTH 573 (3) Anthropology Research Practicum (3 credits)**
- **ANTH 594 (1-15) Research Topics**
- **ANTH 596 (1-9) Individual Studies**
- **ANTH 599 (1-12) Foreign Studies**
- **CAMS 592 (3) Proseminar (3 credits)**
- **CAMS 593 (3-6) Research Seminar (3 credits)**
- **CAMS 596 (1-9) Individual Studies (3 credits)**

**ANTH 494 (1-12) or CAMS 494 (1-12) Research Project (taught jointly between Anthropology and CAMS) (4 credits)**

A Master’s thesis, including 6 credits of ANTH 600 Thesis Research or scholarly paper, including 6 credits of ANTH 596.

**Writing Requirement:** completion and approval of the thesis to be filed with the Graduate School in the specified appropriate format.

**Note:** For the foreseeable future (as of spring 2014) CAMS 592 and CAMS 593 will not be offered on a regular basis. Students should discuss with their advisor using CAMS 596 to fulfill this requirement. CAMS 596 is appropriate for students working on Old World research topics for the Anthropology-CAMS IUG when they are taught by archaeologists in CAMS. The appropriateness of these courses needs to be assessed and approved by the student’s dual advisers in Anthropology and CAMS.
Anthropology  (ANTH)

Program Home Page

DOUGLAS J. KENNETT, Head
Department of Anthropology
413 Carpenter Building
814-867-0005
814-863-1474 (fax)
anth.la.psu.edu

Degrees Conferred:

Ph.D., M.A.
M.D./Ph.D.
Integrated B.A. in Anthropology and B.A. in Classics and Ancient Mediterranean Studies / M.A. in Anthropology
Integrated B.S. in Archaeological Anthropological Science and B.A. in Classics and Ancient Mediterranean Studies / M.A. in Anthropology
Dual-Title Graduate Degree (M.A./Ph.D.) in Anthropology and Demography
Dual-Title Graduate Degree (Ph.D.) in Anthropology and Bioethics
Dual-Title Graduate Degree (M.A./Ph.D.) in Anthropology and Human Dimensions of Natural Resources and the Environment (HDNRE)

The Graduate Faculty

The Program

The Department of Anthropology at Penn State integrates social, ecological, and evolutionary approaches to understand variability in the human condition through time and across space. We offer an integrated program of graduate study at both the Ph.D. and M.A.’s level focusing on specialized training in human and behavioral ecology, cultural anthropology, anthropological demography, archaeology, archaeometry, genetics, human evolution, and the behavioral and evolutionary biology of human and non-human primates. Students also have the option of enrolling in dual-title Ph.D. graduate programs in Demography, Human Dimensions of Natural Resources and the Environment (HNDRE), and Bioethics, and dual-title M.A. programs in Demography and HDNRE. The Department also offers two Integrated Undergraduate/Graduate (IUG) programs (B.A/M.A. and B.S./B.A/M.A.): with the Department of Classics (CAMS). In addition, the Department of Anthropology also offers a joint M.D./Ph.D. degree program with the College of Medicine.

Admission Requirements

Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin. Applicants apply for admission to the program via the Graduate School application for admission.
Entrance to the Anthropology graduate program occurs in the fall semester. Applications must be received by the department no later than December 1 for fall admission. The Department of Anthropology requires Ph.D. program applicants to submit official transcripts from all post-secondary institutions attended, Graduate Record Examinations (GRE) scores (verbal, quantitative, and analytical), a statement of purpose, a CV and at least three letters of recommendation from persons familiar with the applicant’s academic performance. A Master’s degree is not required to apply to the Ph.D. Program. The department does not admit students to the terminal Master’s degree, but does allow students to apply for a Master’s degree through admission to the IUG (Integrated Undergraduate and Graduate) program and Ph.D. degree program.

Students who are applying to the Integrated Undergraduate and Graduate (IUG) program must complete the Graduate School application for admission, and must meet all the admission requirements of the Graduate School and the Anthropology IUG graduate program. Students shall be admitted to an IUG program no earlier than the beginning of the third semester of undergraduate study at Penn State (regardless of transfer or AP credits accumulated prior to enrollment) and no later than the end of the second week of the semester preceding the semester of expected conferral of the undergraduate degree, as specified in the proposed IUG plan of study. Criteria for admission include a minimum GPA of 3.4 in their majors, strong recommendation letters from faculty, and an excellent proposal for a research project with a specific adviser who has agreed to guide the student through to the completion of the M.A. thesis or scholarly paper. In consultation with this adviser, students must prepare a plan of study appropriate to this integrated program, and must present their plan of study in person to the head of the graduate program or the appropriate committee overseeing the integrated program prior to being admitted to the program. The plan should cover the entire time period of the integrated program, and it should be reviewed periodically with an adviser as the student advances through the program.

M.D./Ph.D. Admission Requirements

Prospective students interested in simultaneously pursuing a M.D. and Ph.D. degree must apply to the College of Medicine M.D. program using the national American Medical College Application Service (AMCAS) application system and indicate their intent to pursue the joint-degree program. Admissions requirements and applications for admission for Penn State College of Medicine are available at the M.D. Program section of the Penn State College of Medicine website. Applicants must also meet the admission requirements of the Graduate School and the Ph.D. admission requirements listed above, however, the requirement for GRE scores is waived for students applying to the joint degree program. The M.D./Ph.D. Admissions Committee reviews applications and evaluates candidates for acceptance into both the M.D. and Ph.D. programs. After the review committee has accepted an applicant to the joint degree program, s/he must apply to the Graduate School for admission to the graduate program. Applicants not accepted into the joint-degree program may be referred to either the M.D. or Ph.D. program, depending on their qualifications.

Applicants to this program generally have very strong grades and MCAT scores, as well as a strong and sustained background in research. Applicants must be able to clearly articulate
reasons for pursuing the joint degree. Letters of recommendation from faculty who have advised
the applicant in research and who can comment on the applicant’s passion and potential for
research are strongly encouraged.

**Master's Degree Requirements**

Requirements listed here are in addition to requirements stated in the [DEGREE REQUIREMENTS section of the Graduate Bulletin](#).

A minimum of 30 credits at the 400, 500, 600, or 800 level is required, with at least 18 credits at the
500 and 600 level, combined. All Master’s students are required to take the three core theory
seminars (ANTH 560 Ecology Evolution and Human Behavior, ANTH 571 Principles of Human
Evolutionary Biology, ANTH 588 Method and Theory in Archaeology) for a total of nine credits and
two core methods seminars ANTH 572, Advances in Anthropological Methods and ANTH 573
Anthropological Research Practicum, for a total of 6 credits. Students are also required to enroll in the
literature review seminar (ANTH 541), for a total of 2 credits. Students can choose to complete a
thesis or a scholarly paper as the culminating experience for the degree. Students who choose
to complete a thesis must take a minimum of 6 thesis research credits (ANTH 600 or 610).
The thesis must be accepted by the advisers and/or committee members, the head of the graduate
program, and the Graduate School. Students in the non-thesis track must complete 18 credits at the
500 level, and must write a satisfactory scholarly paper, while enrolled in ANTH 596. All entering
graduate students are expected to complete online training in Scholarship and Research Integrity
(SARI), also referred to as Responsible Conduct of Research (RCR), by no later than October 1 of
their first semester in residence. Additional course work is tailored to the student’s research
interests after advance consultation with their adviser, and specific courses may be required by
the adviser depending on the student’s background and research plans.

**Doctoral Degree Requirements**

Requirements listed here are in addition to requirements stated in the [DEGREE REQUIREMENTS section of the Graduate Bulletin](#).

The doctoral degree in Anthropology requires a minimum of 30 credits, 27 of which are required
coursework. All first-year Ph.D. students are required to register for 9-12 credits per semester and
complete 15 credits of course work, including the three core theory seminars (ANTH 560, ANTH
571, ANTH 588) and two research method seminars, ANTH 572 and ANTH 573. The core method and
theory courses will serve as the basis for the Ph.D. candidacy exam, which will take place at the end of the
first year. In the fall of the second year, all students in the Ph.D. program who have advanced to candidacy
should enroll for a total of 9-12 credits per semester, including ANTH 509, ANTH 508, Visualizing
Anthropological Data, is required for all Ph.D. students and may be taken at any point in the first two years.
Students without suitable preparation in statistics may also be required to take a course at the 400 or 500
level at the adviser’s discretion. A student’s doctoral committee can require additional course work
depending on the student’s background and research plans. All Ph.D. students are required to enroll in
a one-unit literature review seminar (ANTH 541), for one credit each semester during the first six semesters
of study. All entering graduate students are expected to complete online training in Scholarship and Research Integrity (SARI), also referred to as Responsible Conduct of Research (RCR), by no
later than October 1 of their first semester in residence. A student’s doctoral committee can require reading knowledge and/or demonstrated working knowledge of a foreign language, specialized training in linguistics, or training in computer programming languages, depending on the student’s research interests. This will be determined shortly after the committee is formed. For the Ph.D. degree, students must conduct significant original research that demonstrates the student’s mastery of the field. The Ph.D. requirements include successful completion of coursework as stipulated by the department and doctoral committee, passing the candidacy exam, preparing a dissertation proposal, successfully passing the comprehensive exam/dissertation proposal defense, and writing and defending the subsequent dissertation. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School, and the student must pass a final oral examination (the dissertation defense).

M.D./Ph.D. Degree Requirements

Students must fulfill all requirements for each degree in order to be awarded that degree, subject to the double-counting of credits outlined below. Degree requirements for the M.D. program are listed on the Penn State College of Medicine website. For students enrolled in the joint degree program, the requirement for ANTH 572 and 573 will be waived, and students will be required to complete 2 credits of ANTH 541 instead of 6. The College of Medicine will accept 8 credits of ANTH 600 in lieu of two months of elective rotations (MED 797). In addition, the College of Medicine waives the requirement for a Medical Student Research project for students in the M.D./Ph.D. program.

If students accepted into the joint degree program are unable to complete the M.D. degree, they are still eligible to receive the Ph.D. degree if all the Ph.D. degree requirements have been satisfied.

In addition to the requirements for the doctoral committee for a Ph.D. student in the ANTH Graduate Program, at least one member of the dissertation committee must be on the M.D./Ph.D. Steering Committee. This member may serve other roles on the doctoral committee.

M.D./Ph.D. students must complete 25 credits. Candidates for the M.D./Ph.D. in ANTH will take all of the core courses for the ANTH Ph.D., as well as electives chosen by the ANTH M.D./Ph.D. student in consultation with their primary mentor. In the first semester of the second year at UP, all students in the ANTH Ph.D. program who have advanced to candidacy are required to take ANTH 509, the research methods seminar. ANTH 508, Anthropological Data Analysis and Visualization, is also required for all ANTH Ph.D. students and may be taken at any point in the first two years. Students without suitable preparation in statistics may also be required to take a course at the 400 or 500 level at the advisor’s discretion. At any point during the first two years, M.D./Ph.D. students may be required to take up to 6 additional credits of advanced seminars, as directed by their advisor. The M.D./Ph.D. students pursuing the ANTH Ph.D. are also required to enroll in a one-unit literature review seminar (ANTH 541) for one credit each semester during the first two semesters of study. All entering graduate students are expected to complete online training in Scholarship and Research Integrity (SARI), also referred to as Responsible Conduct of Research (RCR), by no later than October 1 of their first semester in residence at University Park. In addition to taking the required core courses and the literature review course, six credits of elective
courses may be required in consultation with the student’s dissertation adviser and doctoral committee. Eight credits of ANTH 600/601 Thesis Research/Ph.D. Dissertation conducted over the four years of the graduate portion of the training program will be counted by the College of Medicine in lieu of two months of elective rotations (MED 797). The College of Medicine’s requirement for a Medical Student Research project is also waived for all M.D./Ph.D. in ANTH candidates.

The doctoral committee of an M.D./Ph.D. student in ANTH will be formed upon successful passing of the ANTH candidacy examination and commencement of work under a primary mentor, no later than the end of the first semester of the second year of graduate study at UP. The doctoral committee must include a minimum of four faculty members, i.e., the chair and at least three additional members, all of whom must be members of the Graduate Faculty. The committee must include at least two members of the ANTH graduate faculty and one member of the M.D./Ph.D. steering committee. One member of the doctoral committee must represent a field outside the candidate's major field of study in order to provide a broader range of disciplinary perspectives and expertise. This person is the “outside field member.” Additionally, one member of the committee must be an “outside unit member”: a member of the graduate faculty outside the adviser’s administrative home (for a tenure-line faculty member this is the department that serves as their tenure home). The same person can be the outside field member and outside unit member.

The comprehensive examination for ANTH M.D./Ph.D. students will follow the same guidelines as for Ph.D. students in ANTH, except that the comprehensive examination must be held before the end of the second academic year at UP. The M.D./Ph.D. student must write a dissertation proposal in preparation for the comprehensive exam, and a final version of the dissertation proposal must be circulated by the student to all committee members at least four weeks in advance of the comprehensive exam. The comprehensive examination for M.D./Ph.D. students will be an oral examination, scheduled with the Graduate School at least two weeks ahead of time, which may be open to the public. The examination will consist of student presentation of their dissertation proposal, followed by questions and discussion. The student and the chair (or one of the co-chairs) is physically present at the exam, which is given and evaluated by the entire doctoral committee. A favorable vote of at least two-thirds of the members of the committee is required for passing. In case of failure, it is the responsibility of the doctoral committee to determine whether the candidate may take another examination. The results are reported to the Office of Graduate Enrollment Services and are entered on the candidate's official record.

The dissertation requirements for ANTH Ph.D. and ANTH M.D./Ph.D. students are the same: All Ph.D. candidates must conduct original research and prepare a dissertation that makes a significant contribution of new knowledge, is presented in a scholarly manner, and demonstrates an ability on the part of the candidate to do independent research of high quality. The contents and conclusions of the dissertation must be defended at the time of the final oral examination.

Students must present their dissertation in accordance with Graduate Council and Graduate School guidelines as described in the Thesis and Dissertation Guide.
Integrated Undergraduate and Graduate (IUG) Degree Requirements

The Department of Anthropology offers integrated undergraduate-graduate (IUG) degree programs (B.A./B.A./M.A. or B.A./B.S./M.A.) designed to allow academically superior students to obtain either a B.A. degree in Anthropology or a B.S. degree in Anthropological Science, a B.A. degree in Classics and Ancient Mediterranean Studies (CAMS), and an M.A. degree in Anthropology in five years of study.

Students must fulfill all requirements for each degree in order to be awarded that degree, subject to the double-counting of credits as outlined below. Degree requirements for the B.A. in Anthropology, B.A. in Classics and Ancient Mediterranean Studies, and B.S. in Anthropological Science are listed in the Undergraduate Bulletin. Degree requirements for the M.A. degree are listed below. Up to 12 credits may be double-counted towards the degree requirements for both the graduate and undergraduate degrees; a minimum of 50% of the double-counted courses must be at the 500 or 800 level. Credits associated with the culminating experience for the graduate degree cannot be double-counted. The courses that are eligible to double count for both degrees are: ANTH 560, ANTH 571, ANTH 572, ANTH 573, and ANTH 588.

Students must sequence their courses so all undergraduate degree requirements are fulfilled before taking courses to count towards the graduate degree. If students accepted into the IUG program are unable to complete the M.A. degree, they are still eligible to receive their undergraduate degree if all the undergraduate degree requirements have been satisfied.

Dual-Title Graduate Degree (M.A./Ph.D.) in Anthropology and Demography

The Demography interdisciplinary program is designed to give students in-depth knowledge of the demographic dimensions of anthropological research, including studies of present populations as well as those of the past.

Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Demography dual-title program. Refer to the Admission Requirements section of the Demography Bulletin page. Doctoral students must be admitted into the dual-title degree program in Demography prior to obtaining candidacy in their primary graduate program.

Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Anthropology, listed above. In addition, students must complete the degree requirements for the dual-title in Demography, listed on the Demography Bulletin page.
The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Anthropology and must include at least one Graduate Faculty member from the Demography program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements of both Anthropology and Demography. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of an Anthropology and Demography dual-title Ph.D. student must include at least one member of the Demography Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Demography, the member of the committee representing Demography must be appointed as co-chair. The Demography representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in Anthropology and Demography. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Dual-Title Graduate Degree (M.A./Ph.D.) in Anthropology and Human Dimensions of Natural Resources and the Environment (HDNRE)

The HDNRE program, which involves four colleges including the College of the Liberal Arts, is oriented toward research that furthers our understanding of the human use of natural resources, a pressing concern for all of us in the twenty-first century. Topics of special concern for anthropologists are the (very) long-term impact of humans on natural settings, and the ways people have adapted to those changes in their surroundings.

Admissions Requirements

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the HDNRE dual-title program. Refer to the Admission Requirements section of the HDNRE Bulletin page. Doctoral students must be admitted into the dual-title degree program in HDNRE prior to obtaining candidacy in their primary graduate program.

Degree Requirements
To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Anthropology, listed above. In addition, students must complete the degree requirements for the dual-title in HDNRE, listed on the HDNRE Bulletin page.

The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Anthropology and must include at least one Graduate Faculty member from the HDNRE program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements from both Anthropology and HDNRE. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of an Anthropology and HDNRE dual-title Ph.D. student must include at least one member of the HDNRE Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in HDNRE, the member of the committee representing HDNRE must be appointed as co-chair. The HDNRE representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in Anthropology and HDNRE. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

**Dual-Title Ph.D. in Anthropology and Bioethics**

The Bioethics program provides anthropology students with an opportunity to develop their knowledge of the social and ethical implications of their research. This combination – solid research experience with an intimate knowledge of the ethical dimensions of that work – is increasingly important in the workplace, and broadens the possibilities of employment beyond traditional anthropology positions.

**Admissions Requirements**

Students must apply and be admitted to the graduate program in Anthropology and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Bioethics dual-title program. Refer to the Admission Requirements section of the Bioethics Bulletin page. Doctoral students must be admitted into the dual-title degree program in Bioethics prior to obtaining candidacy in their primary graduate program.
Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Anthropology, listed above. In addition, students must complete the degree requirements for the dual-title in Bioethics, listed on the Bioethics Bulletin page.

The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Anthropology and must include at least one Graduate Faculty member from the Bioethics program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements of both Anthropology and Bioethics. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of an Anthropology and Bioethics dual-title Ph.D. student must include at least one member of the Bioethics Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Bioethics, the member of the committee representing Bioethics must be appointed as co-chair. The Bioethics representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in Anthropology and Bioethics. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Student Aid

Graduate assistantships available to students in this program and other forms of student aid are described in the Student Aid section of the Graduate Bulletin. Students on graduate assistantships must adhere to the course load limits set forth in the Graduate Bulletin.

Courses

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may
register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.”

**ANTHROPOLOGY (ANTH) course list**

Last Revised by the Department: Spring Semester 2017

Blue Sheet Item #: 42-01-122; 42-01-123

Review Date: 08/20/13

Faculty linked: 5/12/14
RE: CAMS-IUG

From: MARK MUNN <markmunn@psu.edu>
Subject: RE: CAMS-IUG
To: KENNETH GALE HIRTH <kg2@psu.edu>
Cc: BETTY L BLAIR <byb3@psu.edu>

Thu, Jan 04, 2018 08:58 PM

Hi Ken,

Thanks for forwarding this. The document looks fine to me, and the language about CAMS 592 and 593 can stay as is—both courses are still on the books and I am expecting that 592 at least should be offered in 2019-2020.

Best to you for the New Year,

Mark

From: KENNETH GALE HIRTH [mailto:kg2@psu.edu]
Sent: Thursday, January 04, 2018 1:48 PM
To: 'MARK MUNN' <markmunn@psu.edu>
Cc: 'BETTY L BLAIR' <byb3@psu.edu>
Subject: CAMS-IUG

Hi Mark,

Attached are the proposed CAMS-Anthro IUG changes to get the program back on its feet. Note on the bottom the statement about CAMS 592 and 593. Have those ever got reestablished or are taught. If they are gone forever we should just take the courses and the note out of the new proposal. If they are now able to be taught then we should keep them in or modify accordingly.

So you know Betty has pulled this together so a big thanks to Betty. The sooner we can get this submitted the sooner the IUG program can come back on line….hopefully for next year.

If you want to make changes in the doc, do so in track-changes.

Best, Ken
Graduate Council
Program, Option, or Minor Proposal Form

Submit 1 original, signed Graduate Council proposal form and 2 hardcopies of the graduate program proposal document, with a copy of the signed proposal form attached to each proposal copy, to the Office of the Dean of the Graduate School, 211 Kern Building, University Park. For more information about the process, see the Overview of the Graduate Council Curricular Review Process.

The Program Proposal Procedures provide guidance for the development of a graduate program proposal. If you have questions regarding the preparation of a graduate program proposal or how to complete this Graduate Council proposal form, contact the Office of the Dean of the Graduate School.

College/School: Liberal Arts
Department or Instructional Area: Asian Studies

New Graduate Program, Option, or Minor: Add

Designation of new graduate program:
Classification of Instructional Programs (CIP) Code:
Designation of new graduate option:
Designation of new graduate minor:

Indicate effective semester:
First semester following approval
Second semester following approval

Existing Graduate Program Option, or Minor: Change

Current designation of graduate program: Dual-Titled Degree in Asian Studies
Current designation of graduate option:
Current designation of graduate minor:

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above): change of Dept. Head & course listings

Indicate effective semester:
First semester following approval
Second semester following approval

Submitted by Graduate Program Head

ON-Che NG
Printed name
Signature Date: 4/19/2018

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:

Michael Pin#n
Printed name
Signature Date: 4/10/2018

Approved by College/School Dean/Chancellor (or Designee):

D. Scott Bennett
Printed name
Signature Date: 4/20/18
<table>
<thead>
<tr>
<th>Role</th>
<th>Printed name</th>
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<th>Date</th>
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<td>Recommended by Chair, Graduate Council Subcommittee on New and Revised Programs and Courses:</td>
<td>On Behalf of C. Andrew Cole</td>
<td></td>
<td>5/25/18</td>
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<td>Recommended by Chair, Graduate Council Committee on Programs and Courses:</td>
<td>On Behalf of M. Kathleen Heid</td>
<td></td>
<td>5/25/18</td>
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<tr>
<td>Noted by Dean of the Graduate School:</td>
<td>On Behalf of Regina Vasilatos-Younken</td>
<td></td>
<td>5/25/18</td>
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PROGRAM CHANGE PROPOSAL FOR
Dual-Title Degree in Asian Studies

SUBMITTED BY
On-cho Ng, Head of Department of Asian Studies
Justification for the Proposed Changes

State why the change is being proposed, and any expected outcomes as a result.

Updating the Directorship and course listings.
Comparison of Changes

A description of the proposed changes as compared to the existing program requirements, so the reviewers can determine what specifically is being changed. A table is recommended.

Click here to enter Comparison of Changes.

Eric Hayot, Director of Asian Studies (old)
814-865-2910
ehayot@psu.edu

On-cho Ng, Head of Department of Asian Studies (new)
814-867-2910
Oxn1@psu.edu

Summary – remove old Director (Hayot) and replace with new Head (Ng).
Existing Graduate Bulletin Copy

A complete and current copy of the existing Bulletin page for the program, with any changes that need to be made marked by using Track Changes.

Asian Studies (ASIA)

On-cho Ng, Head of Department of Asian Studies

814-867-2910

Oxn1@psu.edu

Degrees Conferred:

Students electing this program through their primary graduate programs will earn a Ph.D. in (graduate program name) and Asian Studies.

The following graduate programs offer dual-title degrees in Asian Studies: Applied Linguistics, Comparative Literature, History, and Political Science.

The Graduate Faculty

The Program

The primary objective of the dual-title degree program in Asian Studies is to engage critically and substantively with the teaching, research, and scholarship of Asia, a diverse area with a population of some 4.5 billion. The program integrates knowledge and methodology across disciplines through partnerships with the departments of History, Political Science, Comparative Literature, and Applied. Graduate students are trained in such a way that they are equipped to represent, understand, analyze, and appraise the crucial and current scholarly issues in Asian Studies in the context of their disciplinary foci. The program aims to produce doctoral graduates with a competitive advantage for employment that relates to Asia in academia and other professional fields.

To qualify for a dual-title degree, students must satisfy the requirements of the primary graduate program in which they are enrolled, in addition to satisfying the degree requirements for the dual-title in Asian Studies, listed below. The requirements for the dual-title Ph.D. include Asia-related coursework, Asia-related components to the candidacy and comprehensive exams, strong all-skills proficiency in one Asian language and either two-years' college study (or equivalent) of another Asian language or else an alternative proficiency appropriate to the student's field; and the completion of an Asian Studies-related dissertation.

Admission Requirements
Students must apply and be admitted to their primary graduate program and The Graduate School before they can apply for admission to the Asian Studies dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Asian Studies dual-title program. Doctoral students must be admitted into the dual-title degree program in Asian Studies prior to taking the candidacy examination in their primary graduate program. Applicants should have a junior/senior cumulative average of a 3.00 (on a 4.00 scale) and appropriate course background. Prospective students seeking admission to the dual-title degree program will write a statement of purpose that addresses the ways in which their research and professional goals will reflect an interest in interdisciplinary and Asian Studies-related research.

**Degree Requirements**

To qualify for a dual-title degree, students must satisfy the requirements of the primary graduate program in which they are enrolled. In addition, they must satisfy the degree requirements for the dual-title in Asian Studies, listed below. The requirements for the dual-title Ph.D. include Asia-related coursework, Asia-related components to the candidacy and comprehensive exams, strong all-skills proficiency in one Asian language and either two-years’ college study (or equivalent) of another Asian language or else an alternative proficiency appropriate to the student's field; and the completion of an Asian Studies-related dissertation.

**Ph.D. Requirements**

Coursework: 15 credits of Asia-related coursework at the 400 or 500 level. At least 9 of these 15 credits will be from ASIA 501 and 502, and ad hoc 597 seminars on individual topics. The remainder of the credits may come from Asian Studies or from the student’s primary graduate program, as approved by the student's doctoral adviser and the Asian Studies program director of graduate studies.

Language requirement: Students will show strong all-skills proficiency in one Asian language and either two years’ college study (or equivalent) of another Asian language or else an alternative proficiency appropriate to the student's field.

The candidacy examination committee for the dual-title Ph.D. degree must include at least one Graduate Faculty member from the Asian Studies program. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements of both the primary graduate degree program and Asian Studies. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of an Asian Studies dual-title doctoral degree student must include at least one member of the Asian Studies Graduate Faculty. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Asian Studies, the member of the committee representing Asian Studies must be appointed as co-chair. The Asian Studies representative on the student's doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in both their primary graduate program and Asian Studies. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

**Student Aid**

Graduate assistantships available to students in this program and other forms of student aid are in the Student Aid section of the Graduate Bulletin. Students on graduate assistantships must adhere to the course load limits set forth in the Graduate Bulletin.
Courses
Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

[A2]
Consultation

Written evidence of consultation with any departments affected by the proposed change. Consultation must include the original query and the full reply by the consultant. Consultations submitted as part of the proposal will be available to the public when the proposal is published, so private exchanges should be edited out and any references to current students should be removed.

Applied Linguistics, Political Science, Comparative Literature and History Departments.
Re: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments

From: Charlotte Diane Eubanks <cde13@psu.edu>  
Subject: Re: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments  
To: On-cho Ng <oxn1@psu.edu>

Mon, May 14, 2018 04:11 PM

@1 attachment

Hi On-cho,

These changes look good to me. Thanks for seeing them through the process of consultation.

All best,
Charlotte

---

From: "On-cho Ng" <oxn1@psu.edu>  
To: "Xiaofei Lu" <xxl13@psu.edu>, "Charlotte Diane Eubanks" <cde13@psu.edu>, "Glenn Palmer" <gop2@psu.edu>, "Greg Smits" <gjs4@psu.edu>  
Cc: "Erica Brindley" <efb12@psu.edu>, "SUE C STEWART" <sxs6@psu.edu>  
Sent: Wednesday, May 9, 2018 3:41:27 PM  
Subject: Re: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments

Dear all,

The Grad School asked us to update our graduate program bulletin, and we did so--please see attached document. Basically we just added an updated list of courses. But this process involves consultation with the partnering departments with our dual-title program, and the Grad School wants evidence of such consultation. Would you please take a look at our proposal and send me an email as confirmation of Asian Studies' consultation with your department?

Very many thanks for your help!

All best,
On-cho
Re: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments

From: GLENN HUNTER PALMER <gop2@psu.edu>  Mon, May 14, 2018 07:28 PM
Subject: Re: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments

To: ON-CHO NG <oxn1@psu.edu>

I'm sorry, On-cho. I read the updates and thought I'd responded. I meant to.

The changes look fine from the political science department's perspective. Thank you for consulting with us.

Glenn

Glenn Palmer
Sent from my iPad

On May 14, 2018, at 7:16 PM, ON-CHO NG <oxn1@psu.edu> wrote:

Hi Glenn,

Sorry to bother you again. I have heard from everyone but you. Would you be able to send me a note about this consultation business soon? Many thanks for your help!

All best,
On-cho

From: "ON-CHO NG" <oxn1@psu.edu>
To: "Xiaofei Lu" <xxl13@psu.edu>, "Charlotte Diane Eubanks" <cde13@psu.edu>, "Glenn H. Palmer" <gop2@psu.edu>, "Gregory Smits" <gis4@psu.edu>
Cc: "Erica Brindley" <efb12@psu.edu>, "SUE C STEWART" <sxs6@psu.edu>
Sent: Wednesday, May 9, 2018 3:41:27 PM
Dear On-Cho,

I confirm these changes look fine for APLNG.

Best,
Xiaofei

2018年5月10日周四上午3:41. ON-CHO NG <oxn1@psu.edu>写道:

Dear all,

The Grad School asked us to update our graduate program bulletin, and we did so--please see attached document. Basically we just added an updated list of courses. But this process involves consultation with the partnering departments with our dual-title program, and the Grad School wants evidence of such consultation. Would you please take a look at our proposal and send me an email as confirmation of Asian Studies' consultation with your department?

Very many thanks for your help!

All best,
On-cho

On-cho Ng
Head of Asian Studies Department
Professor of History, Asian Studies and Philosophy
Associate Editor of "Journal of Chinese Philosophy"
102 Old Botany Building
RE: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments

From: Gregory Smits <gjs4@psu.edu>  Wed, May 09, 2018 05:59 PM
Subject: RE: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments
To: 'ON-CHO NG' <oxn1@psu.edu>
Cc: 'Erica Brindley' <efb12@psu.edu>, 'SUE C STEWART' <sx6@psu.edu>

Dear On-cho,

I have read the Asian Studies graduate program bulletin. Thank you for consulting with the Department of History. Everything looks reasonable to me.

Gregory Smits
Director of Graduate Studies
Department of History

From: ON-CHO NG [mailto:oxn1@psu.edu]
Sent: Wednesday, May 09, 2018 3:41 PM
To: Xiaofei Lu <xx13@psu.edu>; Charlotte Diane Eubanks <cde13@psu.edu>; Glenn H. Palmer <gop2@psu.edu>; Gregory Smits <gjs4@psu.edu>
Cc: Erica Brindley <efb12@psu.edu>; SUE C STEWART <sx6@psu.edu>
Subject: Re: PROGRAM CHANGE PROPOSAL.Asian Studies.2018: Consultation with partner-departments

Dear all,

The Grad School asked us to update our graduate program bulletin, and we did so--please see attached document. Basically we just added an updated list of courses. But this process involves consultation with the partnering departments with our dual-title program, and the Grad School wants evidence of such consultation. Would you please take a look at our proposal and send me an email as confirmation of Asian Studies' consultation with your department?

Very many thanks for your help!
Graduate Council  
Program, Option, or Minor Proposal Form

Submit 1 original, signed Graduate Council proposal form and 2 hardcopies of the graduate program proposal document, with a copy of the signed proposal form attached to each proposal copy, to the Office of the Dean of the Graduate School, 211 Kern Building, University Park. For more information about the process, see the Overview of the Graduate Council Curricular Review Process.

The Program Proposal Procedures provide guidance for the development of a graduate program proposal. If you have questions regarding the preparation of a graduate program proposal or how to complete this Graduate Council proposal form, contact the Office of the Dean of the Graduate School.

| College/School: Eberly College of Science |
| Department or Instructional Area: Biochemistry and Molecular Biology |

**New Graduate Program, Option, or Minor:** Add

| Designation of new graduate program: |
| Classification of Instructional Programs (CIP) Code: |
| Designation of new graduate option: |
| Designation of new graduate minor: |

Indicate effective semester:
- First semester following approval
- Second semester following approval

**Existing Graduate Program Option, or Minor:** Change

| Current designation of graduate program: Biochemistry, Microbiology, and Molecular Biology (BMMB) |
| Current designation of graduate option: |
| Current designation of graduate minor: |

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above): Updating faculty research areas, admission requirements, and added a description of the Astrobiology Dual-Title Program to BMMB description

Indicate effective semester:
- First semester following approval
- Second semester following approval

---

**Submitted by Graduate Program Head**

| Printed name | Signature | Date: 4/12/18 |

**Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:**

| Printed name | Signature | Date: |

**Approved by College/School Dean/Chancellor (or Designee):**

| Printed name | Signature | Date: 4/18/18 |
**Recommended by Chair, Graduate Council Subcommittee on New and Revised Programs and Courses:**

<table>
<thead>
<tr>
<th>On Behalf of C. Andrew Cole</th>
<th>[Signature]</th>
<th>Date: 5/25/2018</th>
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</thead>
<tbody>
<tr>
<td>Printed name</td>
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</table>

**Recommended by Chair, Graduate Council Committee on Programs and Courses:**

<table>
<thead>
<tr>
<th>On Behalf of M. Kathleen Heid</th>
<th>[Signature]</th>
<th>Date: 5/25/2018</th>
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<tbody>
<tr>
<td>Printed name</td>
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</table>

**Noted by Dean of the Graduate School:**

<table>
<thead>
<tr>
<th>On Behalf of Regina Vasilatos-Younken</th>
<th>[Signature]</th>
<th>Date: 5/25/2018</th>
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<tr>
<td>Printed name</td>
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</tbody>
</table>
PROGRAM CHANGE PROPOSAL FOR
Biochemistry, Microbiology, and Molecular Biology (BMMB)

SUBMITTED BY
Paul Babitzke pxb28@psu.edu
David Gilmour dsg11@psu.edu
Heather Giebink hug14@psu.edu
Justification for the Proposed Changes

*State why the change is being proposed, and any expected outcomes as a result.*

Updating the University Bulletin listed degree requirements for BMMB to remove outdated procedures as well as in preparation for the new academic catalog management system. A description of the Astrobiology Dual Title program in which BMMB participates was added.
Comparison of Changes

A description of the proposed changes as compared to the existing program requirements, so the reviewers can determine what specifically is being changed. A table is recommended.

<table>
<thead>
<tr>
<th>Proposed Change</th>
<th>Original</th>
</tr>
</thead>
<tbody>
<tr>
<td>Under “The Program”: Updated research areas of faculty to reflect the current research of the program/department.</td>
<td></td>
</tr>
<tr>
<td>Under “Admission Requirements”: “Scores on the Graduate Record Examination (GRE) Test (verbal, quantitative, and analytical) are required for admission.”</td>
<td>“Scores on the Graduate Record Examination (GRE) Aptitude Test (verbal, quantitative, and analytical) are normally required for admission. Only under exceptional circumstances will an applicant be considered without those scores. It is also recommended that applicants take the Subject Test in Biochemistry, Cell and Molecular Biology, or Chemistry or Biology.”</td>
</tr>
<tr>
<td>Under “Admission Requirements”: Broadened the courses entering students should have completed.</td>
<td></td>
</tr>
<tr>
<td>Under “Admission Requirements”: “Admission to the program is based on prior research experience, personal statement of interests and objectives, course records and grades, GRE scores, letters of recommendation, and interviews. All students are admitted with the intent of obtaining a Ph.D. degree although a master's degree is obtained in some cases.”</td>
<td>“Admission to the program is based on prior course records and grades, GRE scores, letters of recommendation and interviews. Virtually all students are admitted with the intent of obtaining a Ph.D. degree although a master's degree is obtained in some cases on the way to the Ph.D., or as a final degree.”</td>
</tr>
<tr>
<td>Small modifications to “Doctoral Degree Requirements”</td>
<td></td>
</tr>
<tr>
<td>Added description of “Astrobiology Dual-Title Degree Program”</td>
<td></td>
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</tbody>
</table>
Existing Graduate Bulletin Copy

A complete and current copy of the existing Bulletin page for the program, with any changes that need to be made marked by using Track Changes.

Biochemistry, Microbiology, and Molecular Biology (BMMB)

Program Home Page (Opens New Window)

Program Email
bmmb@psu.edu

PAUL BABITZKE, Co-Director of Graduate Studies
203 Althouse Laboratory
814-865-0002
pxb28@psu.edu

DAVID GILMOUR, Co-Director of Graduate Studies
465A North Frear Building
814-863-8905
dsg11@psu.edu

Degrees Conferred:
Ph.D., M.S.

The Graduate Faculty

The Program

The major goal of the program in Biochemistry, Microbiology, and Molecular Biology is to train students for independent research and teaching in the principal areas of those scientific disciplines. Students may enter the program from a variety of backgrounds such as biochemistry, biology, biophysics, cell biology, chemistry, genetics, microbiology, molecular biology, physics, and other related disciplines. The student's research may begin during the first year.
- Research areas of faculty include bacterial growth regulation and differentiation, iron, lipid, cellulose, and xenobiotic metabolism, antibiotic discovery, biophysics and biochemistry and molecular biology of photosynthesis, calcium metabolism in skeletal tissues, cell cycle regulation, cell and developmental biology, neurobiology, microbiology, virology, parasitology, bacterial pathogenesis, antibiotic discovery, iron, lipid, cellulose and xenobiotic metabolism, antibiotic discovery, photosynthesis, self-incompatibility in plant biology, signal transduction, regulation of gene expression, cell cycle regulation control, chromosome organization and chromatin structure, control of gene expression, DNA-binding proteins, RNA-binding proteins, RNA structure, control of gene expression, electron paramagnetic resonance spectroscopy, enzyme kinetics, enzymology and mechanisms of DNA-acting enzymes, metalllobiochemistry, functional genomics, transcriptomics, proteomics, metabolomics, membrane structure and function, metalllobiochemistry of iron-sulfur proteins, mobile genetic elements, molecular biology of developmental biology, molecular biology of xenobiotic metabolism, prokaryotic sensory signal transduction, regulation of amino acid metabolism, RNA-binding proteins, RNA structure, self-incompatibility in plants, spermatogenesis and spermatozoan maturation, structure and function of enzymes, virology, electron paramagnetic resonance spectroscopy, nuclear magnetic resonance spectroscopy, cryo-electron microscopy, and X-ray crystallography.

Admission Requirements

Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin. Applicants apply for admission to the program via the Graduate School application for admission.

Scores on the Graduate Record Examination (GRE) Aptitude-Test (verbal, quantitative, and analytical) are normally required for admission. Only under exceptional circumstances will an applicant be considered without those scores. It is also recommended that applicants take the Subject Test in Biochemistry, Cell and Molecular Biology, or Chemistry or Biology. Entering students should have taken courses in biology, biochemistry, organic chemistry, calculus, general physics, genetics, and/or microbiology, and preferably physical chemistry. Any students with deficiencies may be admitted provisionally, and the deficiencies made up concurrently with graduate studies; however, credits earned to remediate deficiencies cannot be applied towards requirements for the degree. Requirements listed here are in addition to general Graduate School requirements stated in the GENERAL INFORMATION of the Graduate Bulletin.

Admission to the program is based on prior research experience, personal statement of interests and objectives, course records and grades, GRE scores, letters of recommendation, and interviews. Virtually all students are admitted with the intent of obtaining a Ph.D. degree, although a master's degree is obtained in some cases on the way to the Ph.D., or as a final degree. The program does not admit for the terminal master's degree.

Master's Degree Requirements
Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

A minimum of 30 credits at the 400, 500, 600, or 800 level is required, with at least 18 credits at the 500, and 600 level, or 800 level, combined. Master's students must complete the core courses in BMMB: BMMB 501, BMMB 502, BMMB 507, and BMMB 509, and BMMB 502. Students must meet the M.S. degree requirements specified by the Graduate School in the Graduate Bulletin. Students are required to write a thesis, and at least 6 credits in thesis research (600 or 610) must be taken in conjunction with completing the thesis. The thesis must be accepted by the advisers and/or committee members, the head of the graduate program, and the Graduate School, and the student must pass a thesis defense. In addition, a research thesis must be submitted and defended before a committee of the faculty. In general, the master's program is expected to take about two years beyond a bachelor's degree.

Doctoral Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

Each student must take a total of 19 credits in 400-, and 500- and 800-level courses, required and elective, from a list approved by the program faculty. Doctoral students must complete the core courses in BMMB: BMMB 501, BMMB 502, BMMB 507, and BMMB 509, and BMMB 502. Additional course work and research are individually planned by the student and the research adviser in consultation with the dissertation doctoral committee. The dissertation doctoral committee is established according to the rules of the Graduate School in compliance with Graduate Council policy once Ph.D. candidacy has been attained. The student has passed the candidacy examination.

Doctoral students must pass a candidacy examination, a comprehensive oral examination, and a final oral examination (the dissertation defense). Admission to Ph.D. candidacy is decided on the basis of the student's performance in courses, research and teaching. In addition, an oral candidacy examination is taken during the fall semester of the second year. This examination tests the student's ability to utilize what s/he has learned in solving problems based on the scientific method. A comprehensive oral examination is taken before the student's Ph.D. dissertation doctoral committee within approximately three semesters after the student has been admitted to candidacy. The student is expected to present a written research dissertation proposal concerning his or her research problem in terms of the relevant current literature, including the data that has been gathered, and the future research directions, and of the experimentation experimental approaches. Questioning may involve, but is not limited to, that research dissertation proposal.

The faculty requires that each student demonstrate the ability to collect, organize, and present the results of their research in a professional manner before graduation. This is accomplished by preparing a manuscript based on the Ph.D. dissertation research. The manuscript must be written primarily by the student and submitted for publication in a refereed journal prior to the Ph.D. final oral examination.
(the dissertation defense). The final Ph.D. thesis dissertation defense is taken before the student’s thesis defense committee at the end of the program. The student must also present a public seminar on the thesis research within the two-week period preceding the thesis defense. Generally the Ph.D. degree takes about five years beyond a bachelor’s degree. To earn the Ph.D. degree, doctoral students must also write a thesis that is must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

**Astrobiology Dual-Title Degree Ph.D. Program in BMMB and Astrobiology**

Graduate students with research and educational interests in astrobiology may apply to the Astrobiology Dual-Title Degree Ph.D. Program. Students must apply and be admitted to the graduate program in BMMB and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Astrobiology dual-title program. Refer to the Admission Requirements section of the Astrobiology Bulletin page. Doctoral students must be admitted into the dual-title degree program in Astrobiology prior to taking the candidacy examination in their primary graduate program.

Students in the Astrobiology Dual Title program must satisfy the major program requirements, in addition to the minimum requirements of the Astrobiology program. The candidacy examination committee for the dual-title Ph.D. degree must include at least one Graduate Faculty member from the Astrobiology program. There will be a single candidacy examination, containing elements of both the primary graduate degree program and Astrobiology. The doctoral committee of an Astrobiology dual-title doctoral degree student must include at least one member of the Astrobiology Graduate Faculty. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Astrobiology, the member of the committee representing Astrobiology must be appointed as co-chair. The Astrobiology representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination. Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in both their primary graduate program and Astrobiology. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School. A public oral presentation of the dissertation is required.

To qualify for the dual-title degree, students must satisfy the degree requirements for the Ph.D. degree in BMMB, listed above. In addition, students must complete the degree requirements for the dual-title in Astrobiology, listed on the Astrobiology Bulletin page.

The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from BMMB and must include at least one Graduate Faculty member from the Astrobiology program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements of both BMMB and Astrobiology. Dual-title graduate degree students may require an additional semester to fulfill
requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of a BMMB and Astrobiology dual-title Ph.D. student must include at least one member of the Astrobiology Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Astrobiology, the member of the committee representing Astrobiology must be appointed as co-chair. The Astrobiology representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in BMMB and Astrobiology. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Biogeochemistry Dual-Title Degree Ph.D. Program in BMMB and Biogeochemistry

Graduate students with research and educational interests in biogeochemistry may apply to the Biogeochemistry Dual-Title Degree Ph.D. Program. Students must apply and be admitted to the graduate program in BMMB and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Biogeochemistry dual-title program. Refer to the Admission Requirements section of the Biogeochemistry Bulletin page. Doctoral students must be admitted into the dual-title degree program in Biogeochemistry prior to taking the candidacy examination in their primary graduate program.

Students in the Biogeochemistry Dual Title program are required to have two advisers from separate disciplines: one individual serving as a primary adviser in their major degree program and a secondary adviser in an area within a field covered by the dual-title program and a member of the Biogeochemistry faculty. Additional coursework from an approved list of courses is required. All students must pass a candidacy examination that includes an assessment of their potential in the field of biogeochemistry. A single candidacy examination that includes biogeochemistry will be administered for admission into the student’s Ph.D. program, as well as the biogeochemistry dual-title program. The structure and timing of this exam will be determined jointly by the dual-title and major program. The student’s doctoral committee should include faculty from the major program of study and also faculty with expertise in biogeochemistry. The field of biogeochemistry should be integrated into the comprehensive examination. A Ph.D. dissertation that contributes fundamentally to the field of biogeochemistry is required. To qualify for the dual-title degree, students must satisfy the degree requirements for the Ph.D. degree in BMMB, listed above. In addition, students must complete the degree requirements for the dual-title in Biogeochemistry, listed on the Biogeochemistry Bulletin page.

The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from BMMB and must include at least one Graduate Faculty member from the Biogeochemistry program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a
combined role. There will be a single candidacy examination, containing elements of both BMMB and Biogeochemistry. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of a BMMB and Biogeochemistry dual-title Ph.D. student must include at least one member of the Biogeochemistry Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Biogeochemistry, the member of the committee representing Biogeochemistry must be appointed as co-chair. The Biogeochemistry representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in BMMB and Biogeochemistry. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Astrobiology Dual-Title Degree Program

Graduate students with research and educational interests in astrobiology may apply to the Astrobiology Dual-Title Degree Program. Students in the Astrobiology Dual Title program must satisfy the major program requirements, in addition to the minimum requirements of the Astrobiology program. The candidacy examination committee for the dual-title Ph.D. degree must include at least one Graduate Faculty member from the Astrobiology program. There will be a single candidacy examination, containing elements of both the primary graduate degree program and Astrobiology. The doctoral committee of an Astrobiology dual-title doctoral degree student must include at least one member of the Astrobiology Graduate Faculty. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Astrobiology, the member of the committee representing Astrobiology must be appointed as co-chair. The Astrobiology representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination. Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in both their primary graduate program and Astrobiology. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School. A public oral presentation of the dissertation is required.

Other Relevant Information
The director of graduate studies is in charge of advising students about academic and related matters until they have chosen a thesis dissertation adviser. Beginning students carry out a series of rotation projects in at least three different faculty laboratories before deciding on a research area. Students generally decide on their thesis dissertation research adviser at the end of their first fall semester. Each student must take a total of 18-19 credits in 400- and 500-level courses, required and elective, from a list approved by the program faculty.

Further Additional course work and research are individually planned by the student and the research adviser in consultation with the Ph.D. thesis dissertation committee. The thesis dissertation committee is established according to the rules of the Graduate School once Ph.D. candidacy has been attained.

All students are required to participate as teaching assistants in undergraduate laboratory courses as part of their training. Students are required to register for BMBB 602 (Supervised Experience in College Teaching) for two semesters; however, these credits cannot be counted towards the minimum credits required for the degree.

Student Aid

Graduate assistantships available to students in this program and other forms of student aid are described in the Student Aid section of the Graduate Bulletin. Students on graduate assistantships must adhere to the course load limits set forth in the Graduate Bulletin. Graduate assistantships available to students in this program and other forms of student aid are described in the STUDENT AID section of the Graduate Bulletin. Under normal circumstances, all admitted students admitted and continuing in good standing are provided with graduate assistantship support from University sources and research grants.

Courses

Graduate courses carry numbers from 500 to 599-699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

BIOCHEMISTRY, MICROBIOLOGY, and MOLECULAR BIOLOGY (BMBB) course list

MICROBIOLOGY (MICRB) course list
Consultation

Written evidence of consultation with any departments affected by the proposed change. Consultation must include the original query and the full reply by the consultant. Consultations submitted as part of the proposal will be available to the public when the proposal is published, so private exchanges should be edited out and any references to current students should be removed.
April 20, 2018

To the Graduate Council Joint Curricular Committee,

The following is email communication between Dr. Paul Babitzke, the Director of Graduate Education for the Biochemistry, Microbiology and Molecular Biology Graduate Program, Dr. Jim Kasting, the Director of Graduate Education for the Astrobiology Graduate Program, and me.

We consulted Astrobiology during our review of BMMB’s current program description on the University Graduate Bulletin. We realized the Dual-Title Degree with Astrobiology was not included in our bulletin.

The major goal of the submitted Program Change Proposal is to update the University Graduate Bulletin as per the request of Vicki Hewitt.

Sincerely,

Heather Giebink, Ph.D.

Director of Graduate Affairs
Assistant Teaching Professor of Biochemistry and Molecular Biology

Department of Biochemistry and Molecular Biology
The Pennsylvania State University
101C Life Sciences Building
University Park, PA 16803
hug14@psu.edu
Re: Dual Degree program in Astrobiology

From: Jim Kasting <jfk4@psu.edu>  
Subject: Re: Dual Degree program in Astrobiology  
       To: Heather Giebink <hug14@psu.edu>  
       Cc: Paul Babitzke <pxb28@psu.edu>

Sat, Mar 31, 2018 05:31 PM

Dear Heather,

I think your abridged version is fine as is. We're happy to have BMMB as part of our program.

Best,
Jim

On 3/30/2018 11:11 AM, Heather Giebink wrote:

Good morning Jim,

Thank you for the updated Astrobiology program description. We need to include an abridged version on our bulletin. Would you mind looking at the attached document and see if I captured the important details of the dual program? Feel free to make any edits using track changes on the document.

Thank you again!
Heather Giebink

From: "Jim Kasting" <jfk4@psu.edu>  
To: "Paul Babitzke" <pxb28@psu.edu>  
Cc: "HEATHER GIEBINK" <hug14@psu.edu>  
Sent: Thursday, March 29, 2018 9:10:56 PM  
Subject: Re: Dual Degree program in Astrobiology

Dear Paul,

I've attached the revised description of the ABIOL dual title program, which is slowly making its way through the approval process by the Graduate School. A major change is that it is now 15 credits, instead of the old 9 credits. That is because of a change in Grad School rules. Please note that Biology has dropped out of the program. Their two astrobiology faculty both left, and they seem to have lost interest. We are hoping that your department stays with us. It would be hard to call it 'Astrobiology' without some participation by biologists.

Best,
Jim
On 3/29/2018 3:20 PM, Paul Babitzke wrote:

Dear Jim,

I am co-director of the BMB graduate program and we have a dual degree program in Astrobiology. We are updating our degree bulletin and need to include a description of the dual-title degree program. Since you are the program coordinator for Astrobiology I was hoping that you have such a description that we can include in our bulletin.

Thanks for your time,

Paul

Paul Babitzke, Ph.D.
Professor of Biochemistry and Molecular Biology (BMB)

Director, Center for RNA Molecular Biology (CRMB)
http://www.huck.psu.edu/content/research/independent-centers-excellence/center-for-rna-molecular-biology

Director, Biochemistry, Microbiology and Molecular Biology (BMMB) Graduate Program
http://bmb.psu.edu

Department of Biochemistry and Molecular Biology
203 Althouse Laboratory
Penn State University
University Park, PA 16802

Office: 814-865-0002
Lab: 814-863-5820
Fax: 814-863-7024
Graduate Council
Program, Option, or Minor Proposal Form

Submit 1 original, signed Graduate Council proposal form and 2 hardcopies of the graduate program proposal document, with a copy of the signed proposal form attached to each proposal copy, to the Office of the Dean of the Graduate School, 211 Kern Building, University Park. For more information about the process, see the Overview of the Graduate Council Curricular Review Process.

The Program Proposal Procedures provide guidance for the development of a graduate program proposal. If you have questions regarding the preparation of a graduate program proposal or how to complete this Graduate Council proposal form, contact the Office of the Dean of the Graduate School.

College/School: EBERLY COLLEGE OF SCIENCE
Department or Instructional Area: BIOCHEMISTRY AND MOLECULAR BIOLOGY

New Graduate Program, Option, or Minor: Add

Designation of new graduate program:
Classification of Instructional Programs (CIP) Code: _____________
Designation of new graduate option:
Designation of new graduate minor:

Indicate effective semester:
First semester following approval
Second semester following approval

Penn State Graduate School
Office of the Vice Provost and Dean of the Graduate School

Existing Graduate Program Option, or Minor: Change Drop X

Current designation of graduate program: BS ANIMAL SCIENCE-MASTER OF BIOTECHNOLOGY in BIOTECHNOLOGY
Current designation of graduate option: ________________________________
Current designation of graduate minor: ________________________________

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above):

Indicate effective semester:
First semester following approval
Second semester following approval

Submitted by Graduate Program Head
LOIDA ESCOTE-CARLSON
Printed name
Signature
Date: 4/16/18

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:
STEVEN HEPPELMAN
Printed name
Signature
Date:

Approved by College/School Dean/Chancellor (or Designee):
ALEKSANDRA SLAVKOVIC
Printed name
Signature
Date: 4/17/18
<table>
<thead>
<tr>
<th>Name</th>
<th>Printed Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. Andrew Cole</td>
<td></td>
<td></td>
<td>5/25/2018</td>
</tr>
<tr>
<td>M. Kathleen Heid</td>
<td></td>
<td></td>
<td>5/25/2018</td>
</tr>
<tr>
<td>Regina Vasilatos-Younken</td>
<td></td>
<td></td>
<td>5/25/2018</td>
</tr>
</tbody>
</table>
PROGRAM CHANGE PROPOSAL

For

MASTER OF BIOTECHNOLOGY

SUBMITTED BY:

Loida Escote-Carlson
lje6@psu.edu
Justification for Proposed Changes

Since the last time the Graduate Bulletin page was updated, some changes have occurred that required updating of the text, e.g. changes in URL/links to the program websites and course names, without changing the core curriculum. The proposed changes also try to eliminate details that are subject to periodic revisions: for instance, in the IUG program, requirements of the undergraduate program can change, so rather than specifying the details of the undergraduate credit requirements in the grad bulletin's IUG listing, the direct link/URL to the undergraduate degree program is given to get up to date information on the BS Biotechnology curricular requirements.

The only major change in the graduate bulletin page is the elimination of the BS Animal Science-Master of Biotechnology IUG. The change was made in mutual agreement between Animal Science and the Master of Biotechnology program. The reason for discontinuing the program is that, not a single Animal Science undergraduate has actually matriculated into the program since it was put in place many years ago. A few undergraduates who showed some interest or talked to me about it seemed to find the curriculum a bit daunting, particularly the molecular biology part, and did not proceed with any application.
## Comparison of Changes

<table>
<thead>
<tr>
<th>Old Bulletin version</th>
<th>Revised version</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Program homepage</strong></td>
<td><strong>Program Home Page:</strong></td>
</tr>
</tbody>
</table>

- [https://www.lsc.psu.edu/index.php?q=ms/ms.html](https://www.lsc.psu.edu/index.php?q=ms/ms.html)
- [https://www.huck.psu.edu/content/graduate-programs/master-of-biotechnology](https://www.huck.psu.edu/content/graduate-programs/master-of-biotechnology)

| **SCOTT SELLECK, Department Head, Biochemistry and Molecular Biology** | **WENDY HANNA-ROSE, Interim Department Head, Biochemistry and Molecular Biology** |

| **LOIDA J. ESCOTE-CA RLSON, Lead Program Chair** | **LOIDA J. ESCOTE-CA RLSON, Lead Program Chair** |

- [211 Life Sciences Building](https://www.lsc.psu.edu/index.php?q=ms/ms.html)
- [814-863-5751; lj6@psu.edu](https://www.lsc.psu.edu/index.php?q=ms/ms.html)

| **Degree Conferred:** | **Degree Conferred:** |

- [**Master of Biotechnology**](https://www.lsc.psu.edu/index.php?q=ms/ms.html)

| **The Program** | **The Program** |

The Master of Biotechnology degree program is offered through a collaboration of the Life Sciences Consortium between the Department of Biochemistry and Molecular Biology and the Huck Institutes of the Life Sciences and the Department of Chemical Engineering. It is a multidisciplinary program involving at least thirty-two regular faculty members from fourteen different academic departments at Penn State University as well as ad hoc mentors from the academic faculty and from industry. The Master of Biotechnology curriculum is designed to give students broad knowledge and training in the scientific and practical aspects of biotechnology. It involves innovative, hands-on, and multidisciplinary learning approaches to educate and train students in the science behind biotechnology, its business and legal aspects, and the ethical and social issues that it brings about. In addition, the courses and the activities required of all students in this program intend to develop transferable professional skills such as team-working and communication skills, which are very important in industry in particular. Graduates of this program are expected to have the knowledge and training for diverse career options: as academic educators, as scientists in both academic and industry settings, as members of decision-making business and management.
both academic and industry settings, as members of decision-making business and management teams in government and biotechnology industries, as bioentrepreneurs, and as members and leaders of governmental, public, and private organizations that deal with social, ethical and legal issues in biotechnology. Furthermore, because of their broad knowledge in biotechnology, graduates of this program are expected to fill a niche in industry where knowledge and ability to interphase and communicate with various functional groups within the organization are required.

### Admission Requirements

Applications will be considered in accordance with the requirements of the Graduate School as described in the GENERAL INFORMATION section of the Graduate Bulletin. The program is appropriate for students with a baccalaureate degree in biological sciences, chemistry, or engineering or other baccalaureate degrees that include sufficient credits from relevant courses in the life sciences. Applicants must have a minimum junior/senior grade point average of 3.00 (on a 4.00 scale). Graduate Record Examinations (GRE) scores are required with a combined total of at least 1700 points for the verbal, quantitative, and analytical tests. Typically, students are admitted as part of a cohort to commence studies in the Fall. The best-qualified applicants will be accepted up to the number of spaces available for new students.

### Degree Requirements

A minimum of 30 graduate credits is required for completion of the program degree, 18 credits of which must be from courses in the 500 level or higher. Students are required to take 16 to 19 credits from core courses described listed below. Additional credits are from industry internship or cooperative education (co-op) and elective courses, which are determined based on the interest and career track the student decides to pursue: agriculture, medical applications, or diversified. All Master of Biotechnology candidates are required to write a research paper based on a research project conducted in an academic, government or industry research laboratory or in industry. A student whose research project is...
conducted in an academic laboratory will be required to do an internship in industry.

The research paper is completed while the student is enrolled in MCIBS 594.

### Core Courses

**Agricultural and Biological Engineering (ABE)**
- 468. Microbiological Engineering (alternative to BIOTC 479) (3)

**Biology and Molecular Biology (BMB)**
- 400. Molecular Biology of the Gene (2)

**Biotechnology (BIOTC)**
- 479. Methods in Biofermentations (3)

**Integrative Biosciences (IBIOS)**

**Molecular, Cellular and Integrative Biosciences (MCIBS)**
- 571. Current Issues in Biotechnology (2)
- 590. LSC-Colloquium Seminar Series (2)
- 591. Ethics in the Life Sciences (1)
- 593. Molecular Biology Laboratory (3)
- 594. Research Project in Biotechnology (3-5)

**Core Courses**

**Biology and Molecular Biology (BMB)**
- 400. Molecular Biology of the Gene (2)

**Biological Engineering (BE)**
- 468. Microbiological Engineering (alternative course to BIOTC 479) (3)

**Biotechnology (BIOTC)**
- 479. Methods in Biofermentation (3)

**Molecular, Cellular and Integrative Biosciences (MCIBS)**
- 571. Current Issues in Biotechnology (2)
- 590. Colloquium (2)
- 591. Ethics in the Life Sciences (1)
- 593. Molecular Biology Laboratory (3)
- 594. Research Project in Biotechnology (3-5)
**Electives**

These courses are chosen from offerings in various academic departments based on students' interest or track and career objectives. These also include IBIOS-MCIBS 595 (Industry Internship), which is required unless a student already opted to do IBIOS 594 (Research Project) in industry, and IBIOS 597C (Special Topics: Advanced Laboratory Techniques in the Life Sciences), and any 596 (Individual Studies) course under a faculty whose research relates to a student's area of interest. Another elective course that is virtually required of students who intend to pursue research and development careers in industry. This is a modular laboratory course dealing with specialized techniques currently used in life sciences research: mammalian cell culture and monoclonal antibody production, quantitative cell analysis by flow cytometry and digital microscopy, nucleic acid sequence analysis, high-throughput analysis of nucleic acids using microarrays, protein analysis by mass spectrometry, techniques in animal transgenics, and other specialized techniques a student may arrange to work on with a research laboratory on campus.

**Integrated B.S. in Biotechnology - Master of Biotechnology in Biotechnology Program**

https://bmb.psu.edu/undergraduate/academic-planning/the-integrated-undergraduate-graduate-iug-degree-program-in-biotechnology

The integrated B.S. in Biotechnology-Master of Biotechnology degree program is designed to enable qualified undergraduate students in the B.S. Biotechnology program to graduate in five years with the Master of Biotechnology degree. The requirements of the Master of Biotechnology degree are designed to prepare students for diverse career opportunities in the burgeoning biotechnology industry. The integrated B.S. Biotechnology-Master of Biotechnology program will enhance the preparation and qualifications of B.S. Biotechnology students seeking entry-level positions in biotechnology and related industries. At the same time, students develop a practical knowledge of the laboratory techniques that underlie current research in the life sciences that will serve as excellent preparation for those students in the Master of Biotechnology program who later decide to pursue further graduate degrees. Students in the integrated undergraduate-graduate (IUG) degree must fulfill the curricular and credit requirements of both degrees in order to be awarded that degree, subject to the double-counting of credits as outlined below. Degree requirements for the Bachelor of Science in Biotechnology are listed in the Undergraduate Bulletin. Degree requirements for the Master of Biotechnology in Biotechnology degree are listed above. Students must sequence their courses so all undergraduate degree requirements are fulfilled before taking courses to count solely towards the graduate degree. If students accepted into the IUG program are unable to complete the M.BIOT. degree, they are still eligible to receive their undergraduate degree if all the undergraduate degree requirements have been satisfied.

Up to 12 credits may be double-counted towards the degree requirements for both the graduate and
BS and Master’s degrees, but can cross-count a maximum of 12 credits will be cross-counted towards both the B.S. and Master’s degrees, from the following courses:

- BMB 400. Molecular Biology of the Gene (2-3)
- BIOTC 479 or BE 468. Methods in Biofermentation (3)
- IBIOS MCIBS 571. Current Issues in Biotechnology (2)
- MCIBS 590. Colloquium (2)
- IBIOS MCIBS 591. Ethics in the Life Sciences (1)
- IBIOS MCIBS 593. Molecular Biology Laboratory (3)

Credits associated with the culminating experience for the graduate degree cannot be double-counted.

The courses that will double count for both degrees are:

- BMB 400. Molecular Biology of the Gene (2)
- BIOTC 479 or BE 468. Methods in Biofermentation (3)
- MCIBS 571. Current Issues in Biotechnology (2)
- MCIBS 590. Colloquium (2)
- MCIBS 591. Ethics in the Life Sciences (1)
- MCIBS 593. Molecular Biology Laboratory (3)

### B.S. Biotechnology Requirements:

**Total credits required: 125**

**GENERAL EDUCATION:** 46 credits (15 of these are included in the REQUIREMENTS FOR THE MAJOR)

**REQUIREMENTS FOR THE MAJOR:** 94-95 credits

- Prescribed courses: 67 credits
- Additional courses: 6-9 credits
- Supporting courses and related areas: 18-21 credits

The recommended academic plan for completion of the requirements in B.S. Biotechnology can be found in this link: [http://bmb.psu.edu/undergraduate/form-center/academic-plans](http://bmb.psu.edu/undergraduate/form-center/academic-plans)

### Master of Biotechnology Requirements:

**Total credits required: 30** (18 of which must be from 500-level or higher courses)

- Required courses: 16-19 credits
- Electives: 11-14 credits

**Total credits required: 30** (18 of which must be from 500-level or higher courses)

- Required courses: 16-18 credits
- Electives: 12-14 credits
**Integrated B.S. in Animal Sciences – Master of Biotechnology in Biotechnology**

http://animalscience.psu.edu/majors/integrated-program

The integrated B.S. in Animal Sciences Master of Biotechnology in Biotechnology degree program is designed to enable qualified undergraduate students in the B.S. Animal Sciences program to graduate in five years with the Master of Biotechnology degree. The requirements of the Master of Biotechnology degree are designed to prepare students for diverse career opportunities in the burgeoning biotechnology industry. The integrated B.S. in Animal Sciences Master of Biotechnology in Biotechnology program will enhance the preparation and qualifications of B.S. Animal Sciences students seeking entry-level positions in biotechnology and related industries. At the same time, students develop a practical knowledge of the laboratory techniques that underlie current research in the life sciences that will serve as excellent preparation for those students in the Master of Biotechnology program who later decide to pursue further graduate degrees. Students in the integrated undergraduate-graduate (IUG) degree must fulfill the curricular and credit requirements of both BS and Master's degrees, but can cross-count a maximum of 12 credits will be cross-counted towards the B.S. and Master's degrees, from the following courses:

A maximum of 12 credits will be cross-counted towards the B.S. and Masters degrees*.

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>-</td>
<td>Spring</td>
<td>16</td>
</tr>
<tr>
<td>II</td>
<td>Fall</td>
<td>15.5</td>
</tr>
<tr>
<td>-</td>
<td>Spring</td>
<td>16</td>
</tr>
<tr>
<td>III</td>
<td>Fall</td>
<td>15</td>
</tr>
<tr>
<td>-</td>
<td>Spring</td>
<td>15.5</td>
</tr>
<tr>
<td>IV</td>
<td>Fall</td>
<td>15*</td>
</tr>
<tr>
<td>-</td>
<td>Spring</td>
<td>17*</td>
</tr>
<tr>
<td><strong>Total credits for B.S.</strong></td>
<td></td>
<td><strong>125</strong></td>
</tr>
</tbody>
</table>
The following courses to be taken in these semesters will be cross-counted towards the B.S. and Master of Biotechnology degrees:

- BIOTC 479 or BE 468, Methods in Biofermentation OR CH E 409 (3 credits)
- BMB 400, Molecular Biology of the Gene (2-3 credits)
- IBIOS-MCIBS 571, Current Issues in Biotechnology (2 credits)
- MCIBS 590, Colloquium (2)
- IBIOS-MCIBS 591, Ethics in the Life Sciences (1 credit)
- IBIOS-MCIBS 593, Molecular Biology Laboratory (3 credits)

**Total credits cross-counted in B.S. and Master of Biotechnology degrees**

**Master of Biotechnology in Biotechnology (30 credits required)**

<table>
<thead>
<tr>
<th>IV</th>
<th>Summer</th>
<th>IBIOS-MCIBS Internship</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>Fall</td>
<td>IBIOS-MCIBS</td>
</tr>
<tr>
<td>-</td>
<td>Spring</td>
<td>IBIOS 590, Co Electives, 500-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Other graduate</td>
</tr>
</tbody>
</table>

**Minimum total credits earned for Summer and 5th year** 18 credits, at least

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**Admission Requirements for the IUG Program**

Students must have a GPA of 3.5 at the time of application to the integrated degree program when they have completed at least 75 credits of their B.S. curriculum. The GRE scores normally required in the Master of Biotechnology in Biotechnology program will be waived for applicants to the integrated B.S.-Master of Biotechnology degree.

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**Admission Requirements for the IUG Program**

Students must apply to the program via the Graduate School application for admission, and must meet all the admission requirements of the Graduate School and the Biotechnology graduate program for the Master of Biotechnology degree, listed above. Students shall be admitted to an IUG program no earlier than the beginning of the third semester of undergraduate study at Penn State (regardless of transfer or AP credits accumulated prior to enrollment) and no later than the end of the second week of the semester preceding the semester of expected conferral of the undergraduate degree, as specified in the proposed IUG plan of study.

Students must have a GPA of 3.5 at the time of application to the integrated degree program when they have completed at least 75 credits of their B.S. curriculum. The GRE scores normally required in the Master of Biotechnology in Biotechnology program will be waived for applicants to the integrated B.S.-Master of Biotechnology degree.

In consultation with an adviser, students must prepare a plan of study appropriate to this integrated program, and must present their plan of study in person to the head of the graduate program or the appropriate committee overseeing the integrated program prior to
M.BIOT.--Additional Specific Requirements

A minimum of 30 credits at the 400, 500, or 800-level is required for completion of the Master of Biotechnology program, 18 credits of which must be from courses at the 500 or 800 level, with a minimum of 6 credits at the 500 level. A minimum of 16 credits is required in core courses, including a minimum of 3 credits in MCIBS 594 Research Topics, where students complete the final research paper. All Master of Biotechnology candidates are required to write a research paper based on a research project conducted in an academic research laboratory or in industry as the culminating experience for the degree.
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Program, Option, or Minor Proposal Form

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College/School: EBERLY COLLEGE OF SCIENCE
Department or Instructional Area: CHEMISTRY

New Graduate Program, Option, or Minor: Add

Designation of new graduate program:
Classification of Instructional Programs (CIP) Code:
Designation of new graduate option:
Designation of new graduate minor:

Indicate effective semester:
First semester following approval
Second semester following approval

Penn State Graduate School
Office of the Vice Provost and Dean of the Graduate School

Existing Graduate Program Option, or Minor: Change Drop

Current designation of graduate program:
Current designation of graduate option: CHEMICAL BIOLOGY
Current designation of graduate minor:

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above):

Indicate effective semester:
X First semester following approval
Second semester following approval

Submitted by Graduate Program Head

Tom Malouk
Printed name
Signature
Date: 2/1/18

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:

Steve Hepplemann
Printed name
Signature
Date: 2/27/18

Approved by College/School Dean/Chancellor (or Designee):

Aleksandra Slavkovic
Printed name
Signature
Date: 2/28/18
Recommended by Chair, Graduate Council Subcommittee on New and Revised Programs and Courses:

On Behalf of C. Andrew Cole  
Printed name  
Signature  
Date: 5/25/18

Recommended by Chair, Graduate Council Committee on Programs and Courses:

On Behalf of M. Kathleen Heid  
Printed name  
Signature  
Date: 5/25/18

Noted by Dean of the Graduate School:

On Behalf of Regina Vasilatos-Younken  
Printed name  
Signature  
Date: 5/25/18
PROGRAM CHANGE PROPOSAL FOR
CHEMISTRY

SUBMITTED BY
Thomas Mallouk
101 Chemistry Building
814-865-6553
Justification for the Proposed Changes

*State why the change is being proposed, and any expected outcomes as a result.*

We have updated our program description for the University Bulletin as noted below for improved accuracy, and to improve the students’ overall graduate educational experience.
## Comparison of Changes

A description of the proposed changes as compared to the existing program requirements, so the reviewers can determine what specifically is being changed. A table is recommended.

<table>
<thead>
<tr>
<th>Current Bulletin Subsection</th>
<th>Current Information</th>
<th>Proposed Change and Reasoning</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Program</td>
<td>Chemical Biology Option</td>
<td>- Remove Chemical Biology option.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Our program no longer offers specific coursework or criteria for such an option and therefore it should be removed.</td>
</tr>
<tr>
<td>Master’s Degree Requirements</td>
<td>CHEM 589</td>
<td>- Course is no longer offered and is not an option. All MS graduate students must enroll, full-time, in CHEM 600.</td>
</tr>
<tr>
<td>Master’s Degree Requirements</td>
<td>Physical Chemistry required qualifier</td>
<td>- Divisions have been eliminated and consequently, students are permitted to choose the areas in which they qualify. Physical Chemistry is no longer required.</td>
</tr>
<tr>
<td>Doctoral Degree Requirements</td>
<td>Only CHEM 408, CHEM 430, and CHEM 448 can be used as a required course</td>
<td>- Every student is permitted (1) 400 level course as part of their required coursework. Students are permitted to choose, but they must receive approval from the Graduate Program Chair prior to registering.</td>
</tr>
<tr>
<td>Doctoral Degree Requirements</td>
<td>Physical Chemistry required qualifier</td>
<td>- Divisions have been eliminated and consequently, students are permitted to choose the areas in which they qualify. Physical Chemistry is no longer required.</td>
</tr>
<tr>
<td>Doctoral Degree Requirements</td>
<td>(3) credits of CHEM 500 required</td>
<td>We now require (4) credits of CHEM 500 for qualification for the oral comprehensive examination. This allows each student to attend (2) semesters of seminars, (1) semester for their candidacy requirements, and (1) semester for their Second Year Seminar requirement.</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>----------------------------------</td>
<td>------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Other Relevant Information   | (2) Credits for CHEM 602 and Requirement may be waived for students who have attained satisfactory competence in teaching as a result of prior experience. | - Students are only permitted to register for (1) credit of CHEM 602 per semester, and are only required (1) semester of CHEM 602.  
- All students are required to TA for at least, 1 semester. This requirement is no longer waived for this reason. It may be waived by approval of the Graduate Program Chair and the GCAC for situations justifying it, but it is rarely done. |
Existing Graduate Bulletin Copy

A complete and current copy of the existing Bulletin page for the program, with any changes that need to be made marked by using Track Changes.

Chemistry (CHEM)

[Program Home Page(Opens New Window)]

Tom Mallouk, Head of the Department
101 Chemistry Research Building
814-865-6553

Degrees Conferred:

Ph.D., M.S.

The Graduate Faculty

The Program

The Ph.D. program in Chemistry provides students with a broad background in chemistry and intensive research experience culminating in the preparation of a formal thesis. The goal of the program is to prepare students for a variety of careers in academia, government, or industry. The exceptionally high quality of our laboratory and computer facilities enables us to provide students with outstanding research opportunities. Distinguished visiting scholars conduct informal discussions each week at a departmental colloquium.

Admission Requirements

Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin. Applicants apply for admission to the program via the Graduate School application for admission.

Scores from the Graduate Record Examination (GRE) are required for admission. In extenuating circumstances, a student may be admitted at the discretion of the program for graduate study without these scores.

For admission, at least integral calculus plus one year’s work in general physics, organic chemistry, physical chemistry, and either analytical or inorganic chemistry are normally required. Students who have appropriate course backgrounds and who present a 2.50 average (on a 4.00 scale) in all undergraduate courses in chemistry, physics, and mathematics will be considered for admission. The best-qualified applicants will be accepted up to the number of spaces that are available for new students. Exceptions to the minimum 2.50 grade-point average may be made for students with special backgrounds, abilities, and interests.
Master's Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

A minimum of 30 credits at the 400, 500, or 800 level is required, with at least 18 credits at the 500 and 600 level, combined. CHEM 431W, CHEM 450, CHEM 452, CHEM 457, CHEM 494, and CHEM 500 cannot be applied towards the M.S. degree requirements. Students who choose to complete a scholarly paper as the culminating experience must complete 18 credits at the 500 level.

M.S. students must complete either a thesis or a scholarly paper as the culminating experience for the degree. Students who choose to write a thesis must defend the thesis at an oral examination. The thesis will be accomplished under the sponsorship of a faculty member, and the candidate must take 12 credits of CHEM 600 in conjunction with the thesis. A maximum of 6 credits of CHEM 600 may be awarded a quality grade. The thesis must be approved by a committee of at least three faculty members, one of whom will be the candidate’s sponsor. The thesis must also be accepted by the head of the graduate program and the Graduate School, and the student must pass the thesis defense. Students who choose to complete a scholarly paper enroll in CHEM 589 (12 credits).

Qualifying Examinations in analytical, biological, inorganic, organic, and physical chemistry will be given to all new students upon entrance in the fall semester. These exams cover subject matter at the level of the basic courses offered for the B.S. degree in Chemistry at Penn State. For certification as an M.S. candidate, proficiency in two areas is required. Such proficiency may be demonstrated either by (1) passing the area examination upon entrance, or (2) obtaining a grade-point equivalent of 3.0 in at least 3 credits of 500-level course work in the area. The courses used to fulfill this latter option will be designated by the graduate counseling committee. This course work must be completed successfully during the student's first two semesters of residence.

A final oral examination will be administered by a committee consisting of the student's research preceptor and two other faculty members. This examination is scheduled after the M.S. thesis has been completed.

Doctoral Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

Candidates for the Ph.D. degree in Chemistry must meet the following requirements established by the department faculty.

A Ph.D. candidate must take a minimum of five 3-credit courses in chemistry at the 400 or 500 level. The candidate's doctoral committee may require additional specific courses.

Qualifying Examinations in analytical, biological, inorganic, organic, and physical chemistry will be given to all new students upon entrance in the fall semester. These exams cover subject matter at the level of the basic courses offered for the B.S. degree in Chemistry at Penn State. As a part of the requirements for certification as a Ph.D. candidate, each student will be expected to demonstrate proficiency in three areas of chemistry. Such proficiency may be demonstrated either by (a) passing the area examination upon entrance, or (b) obtaining a grade-point equivalent of 3.0 in at least 3 credits of 500-level course work in the area. The courses used to fulfill this latter option will be designated by the graduate counseling committee. This course work must be completed successfully during the student's first two semesters of residence.

In order to qualify for the oral comprehensive examination, a Ph.D. candidate must first obtain a grade of 3.0 or better on 4 credits of CHEM 500 (by writing the requisite number of seminar reports, proposals, and presenting in an area seminar).
A Ph.D. candidate must pass the oral comprehensive examination during his or her first two and one-half years of residency.

Every Ph.D. candidate shall present at least one area or department seminar during the course of residency.

A final oral examination based on a defense of the doctoral thesis is required of all candidates. This exam is given as a formal public seminar with a subsequent closed meeting with the doctoral committee. To earn the Ph.D. degree, doctoral students must write a dissertation that is accepted by the doctoral committee, the head of the graduate program, and the Graduate School, and the student must pass the final oral examination (the dissertation defense).

**Biogeochemistry Dual-Title Degree Program**

Graduate students with research and educational interests in biogeochemistry may apply to the Biogeochemistry Dual-Title Degree Program. Students in the Biogeochemistry Dual Title program are required to have two advisers from separate disciplines: one individual serving as a primary adviser in their major degree program and a secondary adviser in an area within a field covered by the dual-title program and a member of the Biogeochemistry faculty.

Students must apply and be admitted to the graduate program in Chemistry and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Biogeochemistry dual-title program. Refer to the Admission Requirements section of the Biogeochemistry Bulletin page. Doctoral students must be admitted into the dual-title degree program in Biogeochemistry prior to taking the candidacy examination in their primary graduate program.

To qualify for the dual-title degree, students must satisfy the degree requirements for the Ph.D. degree in Chemistry, listed above. In addition, students must complete the degree requirements for the dual-title in Biogeochemistry, listed on the Biogeochemistry Bulletin page.

The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Chemistry and must include at least one Graduate Faculty member from the Biogeochemistry program. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements of both Chemistry and Biogeochemistry. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of a Chemistry and Biogeochemistry dual-title Ph.D. student must include at least one member of the Biogeochemistry Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Biogeochemistry, the member of the committee representing Biogeochemistry must be appointed as co-chair. The Biogeochemistry representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in Chemistry and Biogeochemistry. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

**Other Relevant Information**

All candidates for advanced degrees must schedule CHEM 602, Supervised Experience in College Teaching, for at least 1 credit for at least one semester; however, this 1 credit cannot be counted towards the minimum credits required for the degree.
**Student Aid**

Graduate assistantships are available to students in this program and other forms of student aid are described in the STUDENT AID section of the Graduate Bulletin. It is important to note that department policy limits financial support from department funds to the first two years of graduate study of an M.S. candidate and to the first five years of graduate study of a Ph.D. candidate. Financial support beyond these periods is permitted from other than department funds, e.g., a research assistantship funded from an individual faculty member's research grant(s). Students on graduate assistantships must adhere to the course load limits set forth in the Graduate Bulletin.

**Courses**

Graduate courses carry numbers from 500 to 699 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

**CHEMISTRY (CHEM) course list**
Consultation

Written evidence of consultation with any departments affected by the proposed change. Consultation must include the original query and the full reply by the consultant. Consultations submitted as part of the proposal will be available to the public when the proposal is published, so private exchanges should be edited out and any references to current students should be removed.

No outside consultation needed.
Graduate Council
Program, Option, or Minor Proposal Form

Submit 1 original, signed Graduate Council proposal form and 2 hardcopies of the graduate program proposal document, with a copy of the signed proposal form attached to each proposal copy, to the Office of the Dean of the Graduate School, 211 Kern Building, University Park. For more information about the process, see the Overview of the Graduate Council Curricular Review Process.

The Program Proposal Procedures provide guidance for the development of a graduate program proposal. If you have questions regarding the preparation of a graduate program proposal or how to complete this Graduate Council proposal form, contact the Office of the Dean of the Graduate School.

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<td>Department or Instructional Area: French and Francophone Studies</td>
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New Graduate Program, Option, or Minor: Add

| Designation of new graduate program: |
| Classification of Instructional Programs (CIP) Code: |
| Designation of new graduate option: |
| Designation of new graduate minor: |

Indicate effective semester:
- First semester following approval
- Second semester following approval

Existing Graduate Program Option, or Minor: Change Drop

| Current designation of graduate program: FRENCH |
| Current designation of graduate option: |
| Current designation of graduate minor: |
| New designation of existing graduate program (if changing): FRENCH AND FRANCOPHONE STUDIES |
| New designation of existing graduate option (if changing): |
| New designation of existing graduate minor (if changing): |
| Brief description of the change (if not noted above): Adopting the Visual Studies dual-title for the PH.D. |

Indicate effective semester:
- First semester following approval
- Second semester following approval

Submitted by Graduate Program Head

| Printed name: BENEDICTE MONICAT |
| Signature: |
| Date: 3/19/18 |

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:

| Printed name: Michael Pittam |
| Signature: |
| Date: 3/19/18 |

Approved by College/School Dean/Chancellor (or Designee):

<p>| Printed name: D. Scott Pennell |
| Signature: |
| Date: 3/19/18 |</p>
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<td>On Behalf of Regina Vasilatos-Younken</td>
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A proposal to the Graduate Council by the Graduate Program in French and Francophone Studies to Adopt the Dual-Title Graduate Degree Program in Visual Studies

Submitted by the Department of French and Francophone Studies
Bénédicte Monicat, Head, bxm6@psu.edu
A proposal to the Graduate Council by the Graduate Program in French and Francophone Studies
to Adopt the Dual-Title Graduate Degree Program in Visual Studies

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I. Program Justification and Objectives

A. The departmental and interdepartmental context

The Pennsylvania State University Doctoral (PhD) program in French and Francophone Studies aims to (a) provide students with the conceptual and methodological tools they will use to interpret literature, culture and society in French, Francophone and global contexts; (b) generate and analyze ground-breaking research at the intersection of such disciplines as cultural anthropology, philosophy, socio-cultural and literary history, stylistics, urbanism, visual studies, and women’s and gender studies; and (c) guide students in using their specialized knowledge and skills to produce research of publishable quality on varied sites of analysis (city, library, archive, classroom, stage, environment, among others). The program prepares graduates for college and university teaching, and careers in other related fields.

As indicated by the Graduate Program page on our website¹ our interdisciplinary approach to French and Francophone Studies gravitates around three major poles: race and gender; cultures and literatures in contact; and aesthetics/poetics. Using a transdisciplinary approach, we put a strong emphasis, both in our teaching and research, on the study of wide-ranging primary sources and objects, in a variety of historical and political contexts, from popular culture to the avant-garde, through genealogies of literary genres, cultural artefacts, and aesthetic productions, from the Renaissance to the twenty-first century, and in inter-arts relations.

Our departmental interests in the history of media and visual culture in particular extend from

¹ http://www.french.psu.edu/graduate-studies
the oral tradition through to book history and beyond to electronic, digital, and popular media. A number of our faculty work regularly on ekphrastic relationships among media, including book history, the visual arts, photography, cinema, cartography and mappings, and embodied practice. This interest in media and visual culture is extended by the work of a number of faculty focused on the historical and theoretical issues of representation, which we understand as a subtending force in the organization, storage, and transmission of cultural value from the earliest human cultures to the seemingly radical novelties of the digital age. Many of our existing graduate courses address visual cultures (painting, sculpture, photography, urbanism, architecture), media/book history, helping students to build a strong foundation for the study of the modes and material substrates of aesthetic production.2 The department also has connections with the Center for Humanities and Information3, as well as with the Palmer Museum of Art. The proposed dual-title Ph.D. program in French and Francophone Studies and Visual Studies thus builds on existing strengths in the Department of French and Francophone Studies and enhances our collaboration with faculty in other Ph.D.-granting units at Penn State, the library, and the Center for Humanities and Information, to offer our doctoral students a broader and more thoroughly multidisciplinary perspective on their studies, and to credential that work on a job market that is...

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2 In two of his seminars (FR 535: Texts and Performances: Theory of Drama; FR 533: Baroque Espiteme: 17th-Century French Literature and Intellectual History), Jean-Claude Vuillemin has incorporated several elements of Visual Culture (Theatrical representation, paintings, sculptures, architecture). In her recently taught seminar FR 597: The Era of the Great (Francophone) War, Jennifer Boittin included a strong visual component and she regularly incorporates visual elements whenever she teaches the Francophone Culture class. Last semester, Vincent Gélinas-Lemaire taught a graduate seminar titled “France in Ruins: Wounded Spaces from 1945 to the Present,” that also addressed the architectural dimension and visual representations of ruins (through paintings, photographs, art installations, conceptual art, and land art). Willa Silverman regularly incorporates visual elements in classes such as her graduate seminar on the Belle époque, and in her work with students on the Digital Humanities.

3 http://www.chi.la.psu.edu/
moving increasingly toward the visual.\textsuperscript{46}

B. Program justification

1. The College context

This proposal for a dual-title Ph.D. program in Visual Studies contributes to the primary goal outlined in the College of the Liberal Arts 2014-19 strategic plan: “to sustain and broaden our national leadership in research and graduate education... by focusing on areas of strength and by expanding our dual-title Ph.D. offerings.” The proposed dual-title Ph.D. program will raise the profile and improve the quality of graduate education in the College of the Liberal Arts. It will improve the quality of graduate education by enhancing or supplementing the various approaches to graduate-level work in visual studies that have emerged at Penn State over the last several years. The university offers many resources for this work, but they currently exist in a loose array spread across various departments and other units. The proposed collaboration will systematize these resources in the college and organize them into a coherent field of study in which students can receive training and credentialing.

This dual-title Ph.D. proposal supports the vision laid out in the French and Francophone Studies Department’s 2014-19 Strategic Plan. This plan highlights our commitment to “strengthen our interdisciplinary profile” and to “be at the forefront of new endeavors in Digital Humanities

\textsuperscript{4} For the period October 2013-February 2014, the search terms “film,” “digital,” “media,” and “visual” in the Modern Language Association job database yielded the following results: “film” 230; “digital” 175; “media” 160; “visual” 73. The same search for the period October 2014 to March 2015 produced the following results: “film” 212; “digital” 186; “media” 175; “visual” 84.
project.” Our intention to “hire a Visual Studies-Digital Humanities faculty (independent from period coverage concern)” also relates to this desire to “foster new research projects and objects (with possible links to the College of Arts and Architecture.” The proposed dual-title Ph.D. program in French and Francophone Studies and Visual Studies will attract new and highly qualified graduate students to our doctoral program and create a new platform for grant writing and other forms of fund raising. It will allow our graduate students to plan a rigorous course of study drawing from a full range of multidisciplinary resources, and it will create a structure through which to make more efficient use of those resources as departments and faculty coordinate their work in visual studies. In addition, it will help recruit and retain top faculty in our department and other units.

2. Justification for the degree title

The degree title “Visual Studies” was chosen in consultation with representatives from the College of Arts and Architecture and the College of Communications to signify the breadth of this course of study, which is both distinct from existing programs at the university and open to a wide range of collaborations now and in the future. This degree will raise the visibility of our existing graduate programs with a credential that will work to recruit strong doctoral students and confer a crucial edge in the job market for our graduates.

C. Program objectives

The principal aim of the proposed dual-title Ph.D. in French and Francophone Studies, and Visual Studies is to provide graduate students in French and Francophone Studies the opportunity to
formalize Visual Studies-related interdisciplinary components of their graduate training that will enhance their scholarly work and increase their competitiveness on the job market. It will do this by combining the resources of faculty, departments, and facilities across colleges into a formal structure for training graduate students in the knowledge, analysis, and evaluation of a wide range of visual culture, and production of scholarship and pedagogy in visual formats. This training will cultivate breadth by pushing students to think across conventional disciplines and domains of practice. It will also ensure rigor derived from exposure to a variety of scholars working in closely related historical and methodological fields informed by a rich mixture of disciplinary and institutional perspectives and resources. The quality and visibility of this program will attract ambitious graduate students and credential them in a way that will contribute to our success in placement. Because scholars prize the opportunity for dynamic intellectual exchange associated with thriving graduate programs and strong students, this proposed dual-title Ph.D. program will also help Penn State recruit and retain top faculty across a variety of departments in the humanities.

The Visual Studies curriculum for the dual-title Ph.D. in Visual Studies comprises two core components: 1) historical and theoretical analysis of various forms of visual culture, their diverse sources, and their current manifestations; 2) historical and theoretical analysis of visual media in the information age, including the visual aspects of the digital humanities and the presentation of scholarship and teaching in visual media. A program-specific required course in each of these areas (described below) will ensure breadth of training for participating students. Together these components will offer students a sophisticated understanding of and ability to intervene in debates about visual culture and visuality in the world today.
D. Size of program and impact on course offerings and faculty load

The Department of French and Francophone Studies typically admits three to five students a year to its Ph.D. program. The proposed dual-title Ph.D. in French and Francophone Studies, and Visual Studies expects to enroll approximately one student every year for the first three years to launch the program, followed by one every other year, drawn from the ranks of existing doctoral students French and Francophone Studies who have not yet passed their candidacy exams or from newly admitted doctoral students.

The two required seminars for the dual-title Ph.D. program (VSTUD 501 AND 502) will be taught by a core of graduate faculty as part of each faculty member’s commitment to teach graduate seminars on a rotating basis. The departments already offering the Visual Studies dual title have committed faculty to teach similar courses. There are also faculty in the Department of French and Francophone Studies qualified to teach one of the core classes, namely VSTUD 501 (taught on load). Elective courses contributing to the dual-title program in Visual Studies will be drawn from the many existing offerings across a range of departments as detailed in the proposal to the Graduate Council by the Graduate Program to establish a Dual-Title Ph.D. Program in Visual Studies.

E. Student recruitment and employment prospects

Every year, individual Penn State faculty members in French and Francophone Studies receive inquiries from prospective students asking how our faculty research interests and departmental strengths in Visual Studies are manifested in the form of course offerings and opportunities in
the department. The dual-title Ph.D. in Visual Studies will improve our ability to recruit and retain graduate students with a program that publicizes, coordinates, and credentials their work in this field.

Students will enter the proposed program either from the ranks of existing doctoral students in French and Francophone Studies who have not yet passed their candidacy exams or from doctoral students newly admitted to the department. Students of either type will have to declare their intention and secure permission to complete the dual-title program in accordance with the requirements detailed below. The program will be advertised on the French and Francophone Studies department homepage, as well as on the web pages of other units, including the Center for Humanities and Information, and in the Graduate Degree Programs Bulletin. Professional meetings, conferences, and undergraduate programs in French and Francophone Studies and in Visual Studies will also be mined for recruitment opportunities.

Giving our doctoral graduates an edge on a job market in the humanities that is increasingly oriented toward visual media and issues of visuality is a fundamental rationale for this dual-title Ph.D. proposal. As detailed in the opening paragraphs, hundreds of job advertisements for scholars in the modern languages call for expertise in visual culture. The training and credentialing proposed here will offer our graduate students real advantages when they apply for jobs in academia and beyond. Successful doctoral placement will make our graduate program more attractive, improving our ability to recruit highly qualified graduate students in a cycle that will continue to strengthen the graduate program in French and Francophone Studies.
F. Costs and funding

Because the two required core seminars for the dual-title Ph.D. program will be taught as part of each department’s commitment to offer these graduate seminars on a rotating basis within their current faculty resources, these courses will not require new faculty lines. In addition to helping staff these new core seminars, the French and Francophone Studies Department is supporting the Visual Studies program with some graduate seminars (FR 535, FR 533 and special Topics seminars) and plans to propose others over the coming semesters. Additional courses for the Visual Studies dual-title come from other departments, and the Department of French and Francophone Studies will communicate with other graduate programs to explore the possibility for concurrent course listings, where applicable.

Advisers will help students select their courses in order to ensure that all degree requirements are satisfied in a timely manner and the Department of French and Francophone Studies will continue to distribute its funding awards in accordance with its standing practices for admitted graduate students. Graduate assistantships available to students in this program and other forms of student aid are described in the Student Aid section of the Graduate Bulletin. Students supported by funds from the French and Francophone Studies program will perform teaching and other academic duties determined by the French and Francophone Studies Department graduate officer. Students will receive all possible assistance from the graduate faculty to write grants to support their field research and other academic endeavors.
II. List of Courses

A. Core seminars

The program will consist of two required courses – “Visual Culture Theory and History” and “Visual Studies in Digitality” -- and three elective courses. The two required courses, described below, were established in 2017 with the approval of the Visual Studies dual-title PhD programs in English and German. The three elective courses may be taken either in the student’s home department or in other relevant units, and must be chosen in consultation with the Director of Graduate Studies for French and Francophone Studies.

VSTUD 501 (3 crs) Visual Culture Theory and History. The course examines foundational theoretical texts that have come to define Visual Culture as a historically delineated academic discipline. The goal is to examine the inter-disciplinary relationships that emerged with modern technologies, media, aesthetic agendas, and social relationships to produce Visual Culture as a field of study. This course will review structuralist, semiotic, rhetorical, and technological approaches to understanding the relationship between word and image in modern media.

These methods are applied to studying museum exhibitions, photography, film, fashion, and book arts as they developed in the twentieth century. These media will be examined in their specifically modern context first as a specific outgrowth of industrial urban environments and then within post-industrial media networks. This course is a required seminar for the dual-title degree in Visual Studies.
VSTUD 502 (3 crs) Visual Studies in Digitality. This course explores the theoretical, historical, and operational aspects of visual culture as they relate to the production and consumption of information via digital technologies. Students will gain familiarity with theories of the visual nature of digital technology and the history of these technologies as they relate to humanistic disciplines and ideals of public pedagogy. This background will inform engagement with the tools of rhetorical analysis and critical media theory as students hone skills in critical literacy for digital media, including organizing scholarship and pedagogy for digital presentation and assessing such presentations with regard to both technical issues concerning the integration of the visual and the textual, and broader questions concerning the ideological, economic, and institutional effects of the digitization of learning. This course is a required seminar for the dual-title degree in Visual Studies.

B. Seminars to be developed by French and Francophone Studies

Faculty in the Department of French and Francophone Studies plan to propose some new seminars over the course of the next two years. Possible proposals by existing faculty include FR 5xx: North American Francophone Visual Culture: Texts, Films, Art, FR 5xx: Breaking/Building Paris: The City as Manifesto, FR 5xx: La Belle Epoque, FR 5xx: Decadence. Note that we have just hired one new faculty member who specializes in documentary film and dance. She will also add several more classes to our visual studies curriculum in the next two years.
III. Proposed Graduate Bulletin Copy

French and Francophone Studies (FR)

Program Home Page

BÉNÉDICTE MONICAT, Department Head
437 Burrowes Building
814-865-3532
bxm6@psu.edu

Degrees Conferred

Ph.D., M.A.

Dual-title Ph.D. in French and Francophone Studies and African Studies

Dual-Title Ph.D. in French and Francophone Studies and Visual Studies

Dual-title Ph.D. in French and Francophone Studies and Women's Studies

Dual-title M.A. in French and Francophone Studies and Women's Studies

The Graduate Faculty


Jennifer Anne Boittin, Associate Professor of French, Francophone Studies, and History (Yale): French and Francophone Culture and Society; Colonial history; Caribbean, African and South-East
Asian Migration; Race; Women, Gender, Sexuality and Masculinity

Vincent Gélinas-Lemaire, Assistant Professor of French and Francophone Studies (Harvard): Modern and Contemporary French literature; Québec literature and culture

Emmanuel Bruno Jean-Francois, Assistant Professor of French and Francophone Studies, and Comparative Literature (Mauritius): 20th and 21st century Francophone and postcolonial literatures; Indian Ocean studies; cultural and ethnic studies.


Bénédicte Monicat, Professor of French and Women's Studies (Maryland): 19th-century French literature; women’s travel literature; feminist theory.

Lisa A. Reed, Associate Professor of French and Linguistics (Ottawa): Syntax; semantics; Canadian French.

Tracy Rutler, Assistant Professor of French and Francophone Studies and Women’s, Gender and Sexuality Studies (Minnesota): Early Modern French literature; the 18th-century novel; women, gender, and sexuality studies; memory studies; political theory.
Willa Z. Silverman, Professor of French and Jewish Studies (NYU): 19th- and 20th-century French culture, society, and politics; history and literature; French women writers 1870-1914.

Jean-Claude Vuillemin, Professor of French (Michigan State): 17th-Century French Literature and Philosophy; Post-structuralism and Reception theories; Baroque Aesthetics; Semiotics of Drama and Theater Theory; Intellectual History.

The Program

Graduate programs in French and Francophone Studies generate and analyze culture and society and literature. For example, programs of study can concentrate on such topics as genres, themes, periods, cultural anthropology, philosophy, socio-cultural and literary history, stylistics, urbanism, visual studies, and women’s and gender studies. Through varied sites of analysis (city, library, archive, classroom, stage, environment, among others), the program explores past and current issues and theoretical debates. Our interdisciplinary approach to French and Francophone Studies currently gravitates around three major poles: race and gender; cultures and literatures in contact; and aesthetics/poetics.

The M.A. is a general humanistic degree that helps prepare students for a variety of situations, including teaching in private high schools or community colleges, or further graduate work. The Ph.D. is a more specialized degree. The Ph.D. in French and Francophone Studies can be combined with a minor in a field such as social thought. Other potential combinations include

Only the faculty members and courses officially associated with the Department of French and Francophone Studies are listed here. Faculty members and courses in other departments are also available to French and Francophone students to help them progress in their training.

**Admission Requirements**

Admission requirements listed here are in addition to requirements stated in the [GENERAL INFORMATION section of the Graduate Bulletin](April 2018 Graduate Bulletin). Applicants apply for admission via the Graduate School application for admission.

Scores from the Graduate Record Examinations (GRE) are generally required of all students educated (high school and college) in the continental United States. The language of instruction at Penn State is English (however, courses in French and Francophone Studies are typically taught in French). International students whose native language is not English are required to submit TOEFL scores (minimum computer score of 213 or minimum iBT score of 80 with a minimum speaking score of 19). English proficiency test scores (TOEFL/IELTS) may be required for international applicants. Consult the English Proficiency section of the Graduate Bulletin Application and Admission Procedures page for more information.
Minimum qualifications for admission to the program typically include a B.A. in French or the equivalent, a minimum of 3.20 grade-point average (on a 4.0 scale), and the ability to speak and write in both French and English. A speech sample demonstrating the applicant's ability to speak extemporaneously and coherently about his/her study and career goals in French for Anglophones, in English for Francophones, and in French and English for speakers of other foreign languages is required. A written text on a literary or cultural topic also must be submitted in French for Anglophones and speakers of other foreign languages, and in English for Francophones. The best-qualified applicants will be accepted up to the number of spaces that are available for new students. Exceptions to the minimum 3.20 GPA may be made for students with special backgrounds, abilities, and interests, at the discretion of the program.

Doctoral Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

The Ph.D. degree prepares candidates for careers in teaching and research at the college or university level. Between 33 and 36 credits beyond the M.A. in French (or equivalent) is required in graduate course work at the 400, 500, 600, or 800 level. Candidates who have not taken these courses while completing their M.A. at Penn State must take FR 571 French Literacy Theory and Criticism (3), FR 580 Approaches to French Civilization (3), FR 581 Theory and Techniques of Teaching French (1-6), FR 501A Pro-Seminar in French Studies I (1.5), and FR 501B Pro-Seminar in French Studies II (1.5). Credits must be distributed in one of two areas of specialization: culture and society or literature.
Doctoral candidates must demonstrate either an advanced knowledge of one foreign language other than French or a reading ability of two foreign languages other than French (equivalent to the 12-credit level). The foreign language requirement must be completed prior to scheduling the candidacy exam. All doctoral students must pass a candidacy examination, a comprehensive written and oral examination, and a final oral examination. To earn the Ph.D. degree, doctoral students must also write a dissertation that is accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Master’s Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

Candidates for the master’s degree in French and Francophone Studies must complete a minimum of 33 credits at the 400, 500, 600, or 800 level, either 33 credits plus a master’s paper or 27 credits 11 3-credit graduate-level courses, plus a master’s paper, or a minimum of 10 3-credit courses, plus 6 credits for a thesis. A reading knowledge of a second foreign language plus oral and written examinations are also required. All candidates take FR 571 French Literacy Theory and Criticism (3), FR 502 Introduction to French Linguistics (3), FR 580 Approaches to French Civilization (3), FR 581 Theory and Techniques of Teaching French (1-6), FR 501A Pro-Seminar in French Studies I (1.5), and FR 501B Pro-Seminar in French Studies II (1.5). In addition to the six required courses designated here, all candidates take 6 3-credit courses in French and Francophone Studies. The M.A. degree (or equivalent) is normally a prerequisite to doctoral
candidacy. **Students who complete a thesis must take at least 6 credits in thesis research (600 or 610). The thesis must be accepted by the advisers and/or committee members, the head of the graduate program, and the Graduate School, and the student must pass a thesis defense.**

**Students who complete a master’s paper do so by building on ideas or concepts from one of their graduate courses, including a faculty member’s feedback and suggestions for further developing a final paper.**

**Dual-Title Graduate Degree in French and Francophone Studies and African Studies**

French and Francophone Studies doctoral students who have research and educational interests in African studies may apply to the Dual-Title Doctoral Degree Program in African Studies. The goal of the program is to enable doctoral students from French and Francophone Studies to complement their knowledge and skills in their primary discipline with in-depth knowledge of prevailing theories on and problem-solving approaches to thematic, regional, or national issues pertaining to African development and change.

The Dual-Title Doctoral Degree Program will provide interested French and Francophone Studies doctoral students with a multidisciplinary approach that will enhance their analytical capabilities for addressing key issues in African Studies.

**Admissions Requirements**

Students must apply and be admitted to the graduate program in French and Francophone Studies and The Graduate School before they can apply for admission to the dual-title degree program. **After admission to their primary program, students must apply for admission to and**
meet the admissions requirements of the African Studies dual-title program. Refer to the Admission Requirements of the African Studies Bulletin page. Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin. Applicants interested in the dual-title degree program may make their interest in the program known clearly on their applications to French and Francophone Studies and include remarks in their statement of purpose that address the ways in which their research and professional goals in the primary department reflect an interest in African Studies-related research.

To be enrolled in the Dual-Title Doctoral Degree Program in African Studies, a student must have the approval of the French and Francophone Studies Department and then submit a letter of application and transcript, which will be reviewed by the African Studies Admissions committee. An applicant must have a minimum grade-point average of 3.0 (on a 4.0 scale) to be considered for enrollment in the dual-title degree program. Students must apply for enrollment into the dual-title degree program in African Studies prior to obtaining candidacy in French and Francophone Studies.

Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

To qualify for the dual-title degree, students must satisfy the requirements of the French and
Francophone Studies doctoral program in which they are primarily enrolled. In addition, they must satisfy the requirements described below, as established by the African Studies Program. Within this framework, course selection is determined by the student with the approval in advance of the African Studies Director of Graduate Studies.

Upon acceptance by the African Studies admissions committee, the African Studies director will assign the student an African Studies academic adviser in consultation with the African Studies admissions committee. As a student develops specific scholarly interests, s/he may request a different African Studies from the one assigned by the African Studies admissions committee. The student and the French and Francophone Studies and African Studies academic advisers will establish a program of study that is appropriate for the student's professional objectives and that is in accordance with the policies of the Graduate Council, the French and Francophone Studies graduate program, and the African Studies Program.

The Ph.D. in French and Francophone Studies and African Studies is awarded to students who are admitted to the French and Francophone Studies doctoral program and admitted subsequently into the dual-title degree in African Studies. The minimum course requirements for the dual-title Ph.D. degree in French and Francophone Studies and African Studies are as follows.

- A minimum of 66 post-baccalaureate credits. Course work accepted for the M.A. in French and Francophone Studies will count toward the 60-credit requirement. At least 48 credits, exclusive of dissertation research credits, must be in French and Francophone Studies.
• 18 credits of Africa-related course work at the 400- or 500-level of which the following 9 credits are required: AFR 501 (3) and a minimum of 6 credits from a list of courses maintained by the African Studies program chair.

• Up to 6 of the 18 credits may come from French and Francophone Studies, as approved by the student’s French and Francophone Studies and African Studies Program academic advisers.

• The remaining credits can be taken in African Studies or in any department other than French and Francophone Studies.

• Of the 18 credits, no more than 6 credits may be taken at the 400-level and no more than 3 combined credits may come from 596 and 599 listings.

The choice of courses in African Studies is to be proposed by the student, subject to approval in advance by the French and Francophone Studies and African Studies academic advisers. The suite of selected courses should have an integrated, intellectual thrust that probes thematic, national, or regional issues and be complementary to the student’s specialty in French and Francophone Studies.

Language Requirement

Fulfillment of the foreign language requirement will meet the existing French and Francophone Studies requirements.

The foreign language requirement at the doctoral level is designed to provide students with a skill that will aid them in research and in securing employment. The French and Francophone Studies department feels that the majority of students would profit most from four-skill
proficiency in another language. However, some students would benefit most from a reading knowledge of two languages.

**Candidacy Examination**

The dual-title degree will be guided by the Candidacy examination procedure of the French and Francophone Studies graduate program. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable. The Candidacy Examination for the dual-title degree may be given after at least 18 postbaccalaureate credits have been earned in graduate courses; it must be taken within three semesters (summer sessions do not count) of entry into the French and Francophone Studies graduate program.

There will be a single candidacy examination, containing elements of both French and Francophone Studies and African Studies.

The Candidacy Examination committee for the dual-title degree will be composed of graduate faculty from French and Francophone Studies and must include at least one graduate faculty member from the African Studies Program. The designated dual-title faculty member may be appointed from French and Francophone Studies if that person holds a formal affiliation with the African Studies program.

**Doctoral Committee Composition**

In addition to the general Graduate Council requirements for doctoral committees, The doctoral committee of a French and Francophone Studies and African Studies dual-title Ph.D. student must include a minimum of four-
Graduate Faculty members, i.e., the chair and at least three additional members. The committee must include at least one member of the African Studies Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role.

If the chair of the committee representing French and Francophone Studies is not also a member of the Graduate Faculty in African Studies, the member of the committee representing African Studies must be appointed as co-chair.

**Comprehensive Examination**

The Comprehensive Examination consists of a series of content-intensive examinations and the Doctoral Dissertation Proposal. The African Studies representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

**Dissertation and Final Oral Examination**

Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. Students enrolled in the dual-title program are required to write and orally defend a dissertation on a topic that reflects their original research and expertise in French and Francophone Studies and African Studies. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.
Dual-Title Ph.D. in French and Francophone Studies, and Visual Studies

French and Francophone Studies graduate students who have research and educational interests in global visual culture may apply to the Dual-Title Doctoral Program in Visual Studies. The program aims to (a) provide students with the conceptual and methodological tools they will use to interpret literature, culture and society in French, Francophone and global contexts; (b) generate and analyze ground-breaking research at the intersection of such disciplines as cultural anthropology, philosophy, socio-cultural and literary history, stylistics, urbanism, visual studies, and women’s and gender studies; and (c) guide students in using their specialized knowledge and skills to produce research of publishable quality on varied sites of analysis (city, library, archive, classroom, stage, environment, among others). The program prepares graduates for college and university teaching, and careers in other related fields.

The dual-title Ph.D. in Visual Studies comprises two core components: 1) historical and theoretical analysis of various forms of visual culture, their diverse sources, and their current manifestations; 2) historical and theoretical analysis of visual media in the information age, including the visual aspects of the digital humanities and the presentation of scholarship and teaching in visual media. A program-specific required course in each of these areas will ensure breadth of training for participating students. Together these components will offer students a sophisticated understanding of and ability to intervene in debates about visual culture and visuality in the world today.
Admission Requirements

Students must apply and be admitted to the doctoral program in French and Francophone Studies and The Graduate School before they can apply for admission to the dual-title degree program. Applicants interested in the dual-title degree program may make their interest in the program known clearly in their applications to French and Francophone Studies and include remarks in their statement of purpose that address the ways in which their research and professional goals in the primary department reflect an interest in Visual Studies-related research. After admission to the doctoral program, students must apply for admission to and meet the admissions requirements of the Visual Studies dual-title program, as described in the Admission Requirements section of the Visual Studies Bulletin. Doctoral students must be admitted into the dual-title degree program in Visual Studies prior to obtaining candidacy in the French and Francophone Studies program.

Degree Requirements

To qualify for the dual-title degree, students must satisfy the degree requirements for the Ph.D. in French and Francophone Studies, listed above. In addition, students must complete the degree requirements for the dual-title in Visual Studies, listed on the Visual Studies Bulletin page.

The Visual Studies segment of the program will consist of a total of fifteen credits, including two required courses – “Visual Culture Theory and History” and “Visual Studies in Digitality” -- and three elective courses dealing with questions of visuality, chosen in consultation with the
Director of Graduate Studies for French and Francophone Studies. Up to six credits may be double-counted by both the primary graduate program (FFS) and the dual-title. All in all, students must complete a minimum of 66 post-baccalaureate credits for the Ph.D. in French and Francophone Studies and Visual Studies. Course work accepted for the M.A. in French and Francophone Studies will count towards the credit requirement.

The choice of courses in Visual Studies is to be proposed by the student, subject to approval in advance by the French and Francophone Studies and Visual Studies academic advisers. The suite of selected courses should have an integrated, intellectual thrust that probes thematic, national, or regional issues and be complementary to the student's specialty in French and Francophone Studies.

**Language Requirements**

Fulfillment of the foreign language requirement will meet the existing French and Francophone Studies requirements.

The foreign language requirement at the doctoral level is designed to provide students with a skill that will aid them in research and in securing employment. The French and Francophone Studies department feels that the majority of students would profit most from four-skill proficiency in another language. However, some students would benefit most from a reading knowledge of two languages.
Candidacy Examination

The dual-title degree will be guided by the Candidacy examination procedure of the French and Francophone Studies graduate program. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable. The Candidacy Examination for the dual-title degree may be given after at least 18 postbaccalaureate credits have been earned in graduate courses; it must be taken within three semesters (summer sessions do not count) of entry into the French and Francophone Studies graduate program.

There will be a single candidacy examination, containing elements of both French and Francophone Studies and African Studies.

The Candidacy Examination committee for the dual-title degree will be composed of graduate faculty from French and Francophone Studies and must include at least one graduate faculty member from the Visual Studies Program. The designated dual-title faculty member may be appointed from French and Francophone Studies if that person holds a formal affiliation with the Visual Studies program.

Doctoral Committee Composition

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of a French and Francophone Studies and a Visual Studies dual-title Ph.D. doctoral degree student must include a minimum of four Graduate Faculty members, i.e., the chair and at least three additional members. The committee must include at least one member...
of the Visual Studies graduate faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role.

If the chair of the committee representing French and Francophone Studies is not also a member of the Graduate Faculty in Visual Studies, the member of the committee representing Visual Studies must be appointed as co-chair.

**Comprehensive Examination**

The Comprehensive Examination consists of a series of content-intensive examinations and the Doctoral Dissertation Proposal. The Visual Studies representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

**Dissertation and Final Oral Examination**

Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. Students enrolled in the dual-title program are required to write and orally defend a dissertation on a topic that reflects their original research and expertise in French and Francophone Studies and Visual Studies. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.
Dual-title Ph.D. in French and Francophone Studies and Women’s Studies

Admission Requirements

Students must apply and be admitted to the graduate program in French and Francophone Studies and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admission requirements of the Women’s Studies dual-title program. Refer to the Admission Requirements section of the Women’s Studies Bulletin page. Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin. Applicants interested in the dual-title degree program may make their interest in the program known clearly on their applications to French and Francophone Studies and include remarks in their statement of purpose that address the ways in which their research and professional goals in the primary department reflect an interest in Women’s Studies-related research.

To be enrolled in the Dual-Title Doctoral Degree Program in Women’s Studies, a student must have the approval of the French and Francophone Studies Department and then submit a letter of application and transcript, which will be reviewed by the Women’s Studies Admissions committee. An applicant must have a minimum grade-point average of 3.2 (on a 4.0 scale) to be considered for enrollment in the dual-title degree program. Students must apply for enrollment into the dual-title degree program in Women’s Studies prior to obtaining candidacy in French and Francophone Studies.
Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin.

The dual-title Ph.D. in French and Francophone Studies and Women’s Studies requires between 30 and 42 credits beyond the master’s degree.

Course Requirements:

• FR 571: French Literary Theory and Criticism (3)
• FR 580: Approaches to French Civilization (3)
• WMNST 501: Feminist Perspectives on Research and Teaching Across the Disciplines (3)
• WMNST 502: Global Perspectives on Feminism (3) or a 597 Special Topics course taught by a core Women's Studies faculty member (3)
• WMNST 507: Feminist Theory (3)
• A further twenty-one credits selected in consultation with the adviser, of which nine credits must be Women’s Studies approved
• Six credits of elective study

Language Requirement

Second Foreign Language: Reading proficiency in two foreign languages, or advanced level in one foreign language.
Candidacy Examination

The dual-title degree will be guided by the Candidacy examination procedure of the French and Francophone Studies graduate program. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable. The Candidacy Examination for the dual-title degree may be given after at least 18 post-baccalaureate credits have been earned in graduate courses; it must be taken within three semesters (summer sessions do not count) of entry into the French and Francophone Studies graduate program.

There will be a single candidacy examination, containing elements of both French and Francophone Studies and Women’s Studies.

The Candidacy Examination committee for the dual-title degree will be composed of graduate faculty from French and Francophone Studies and must include at least one graduate faculty member from the Women’s Studies Program. The designated dual-title faculty member may be appointed from French and Francophone Studies if that person holds a formal affiliation with the Women’s Studies program.

Doctoral Committee Composition

In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of a French and Francophone Studies and Women’s Studies dual-title Ph.D. student must include at least one member of the Women’s Studies Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. The doctoral committee of a dual-title doctoral degree student must include a minimum of four-
Graduate Faculty members, i.e., the chair and at least three additional members. The committee must include at least one member of the Women’s Studies graduate faculty.

If the chair of the committee representing French and Francophone Studies is not also a member of the Graduate Faculty in Women’s Studies, the member of the committee representing Women’s Studies must be appointed as co-chair.

Comprehensive Examination

The Comprehensive Examination consists of a series of content-intensive examinations and the Doctoral Dissertation Proposal. The Women’s Studies representative on the student's doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Dissertation and Final Oral Examination

Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. Students enrolled in the dual-title program are required to write and orally defend a dissertation on a topic that reflects their original research and expertise in French and Francophone Studies and Women’s Studies. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Dual-title Master’s Degree in French and Francophone Studies and Women’s Studies

Admissions Requirements

Students must apply and be admitted to the graduate program in French and Francophone
Studies and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions requirements of the Women’s Studies dual-title program. Refer to the Admission Requirements of the Women’s Studies Bulletin page. Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin.

To be enrolled in the Dual-Title Master’s Degree Program in Women’s Studies, a student must have the approval of the French and Francophone Studies Department and then submit a letter of application and transcript, which will be reviewed by the Women’s Studies Admissions committee. An applicant must have a minimum grade-point average of 3.2 (on a 4.0 scale) to be considered for enrollment in the dual-title degree program.

Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin. To qualify for this dual-title degree, students must satisfy the requirements of the French and Francophone Studies Master of Arts degree program, listed above under Master’s Degree Requirements. In addition, they must satisfy the Women’s Studies program requirements for the dual-title master’s degree. Refer to the Master’s Degree Requirements section of the Women’s Studies Bulletin page. Some courses may satisfy both the graduate primary program requirements and those of the Women’s Studies program. Final course selection is determined by the student after consulting, in advance, with their French
and Francophone Studies and Women’s Studies advisers.

For students who elect to write the thesis for the dual-title M.A. degree in French and Francophone Studies and Women’s Studies, the thesis must reflect the student’s education and interest in both French and Francophone Studies and Women’s Studies. All members of the student’s thesis committee must be members of the Graduate Faculty. The master’s thesis committee must include at least one Graduate Faculty member from Women’s Studies. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role.

Candidates for the Women's Studies and French dual-title master’s degree complete a minimum 33 credits plus a master’s paper. The master’s paper must reflect the student's education and interest in both French and Francophone Studies and Women's Studies. All candidates take FR 501A Pro-Seminar in French Studies I (1.5), FR 501B Pro-Seminar in French Studies II (1.5), FR 502 Introduction to French Linguistics (3), FR 571 French Literary Theory and Criticism (3), FR 580 Approaches to French Civilization (3), FR 581 Theory and Techniques of Teaching French (1-6), WMNST 501 Feminist Perspectives on Research and Teaching Across the Disciplines (3), WMNST 502 Global Perspectives on Feminism (3), WMNST 507 Feminist Theory (3), and 9 credits in literature (6 of those credits in Women’s Studies-approved courses). A reading knowledge of a second foreign language plus oral and written examinations are also required.
Student Aid

Graduate assistantships available to students in this program and other forms of student aid are described in the Student Aid section of the Graduate Bulletin. Students on graduate assistantships must adhere to the course load limits set forth in the Graduate Bulletin.

Courses

Graduate courses carry numbers from 500 to 6599 and 800 to 899. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.

FRENCH AND FRANCOPHONE (FR) course list

Last Revised by the Department: Spring Semester 2018

Blue Sheet Item #: 44-06-000

Review Date: 04/5/2016

Faculty linked: 6/9/14
IV. Affected Departments and Programs

In the process of creating the proposal to establish a Dual-Title Ph.D. Program in Visual Studies, five graduate programs in the College of the Liberal Arts -- French and Francophone Studies; Comparative Literature; English; German and Slavic Languages; and Spanish, Italian, and Portuguese – and the Department of Art History submitted letters assuring their participation in administering the Visual Studies dual-title degree. The Ph.D. program in Art Education is also considering a partnership.
Graduate Council
Program, Option, or Minor Proposal Form

Submit 1 original, signed Graduate Council proposal form and 2 hardcopies of the graduate program proposal document, with a copy of the signed proposal form attached to each proposal copy, to the Office of the Dean of the Graduate School, 211 Kern Building, University Park. For more information about the process, see the Overview of the Graduate Council Curricular Review Process.

The Program Proposal Procedures provide guidance for the development of a graduate program proposal. If you have questions regarding the preparation of a graduate program proposal or how to complete this Graduate Council proposal form, contact the Office of the Dean of the Graduate School.

College/School: Education
Department or Instructional Area: Lifelong Learning & Adult Education

New Graduate Program, Option, or Minor: Add

Designation of new graduate program:
Classification of Instructional Programs (CIP) Code:
Designation of new graduate option:
Designation of new graduate minor:

Indicate effective semester:
First semester following approval
Second semester following approval

Existing Graduate Program Option, or Minor: Change

Current designation of graduate program:
Current designation of graduate option:
Current designation of graduate minor:

New designation of existing graduate program (if changing):
New designation of existing graduate option (if changing):
New designation of existing graduate minor (if changing):

Brief description of the change (if not noted above): Substitute AOTED 521 for AOTED 480 for Ph.D./D.Ed.

Indicate effective semester:
First semester following approval
Second semester following approval

Submitted by Graduate Program Head

Signature

Date: 4/22/16

Noted by College/School Representative to Graduate Council Subcommittee on New and Revised Programs and Courses:

Signature

Date: 3/22/17

Approved by College/School Dean/Chancellor (or Designee):

Signature

Date: 4/11/17
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<td>C. Andrew Cole</td>
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<td>M. Kathleen Heid</td>
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<tr>
<td>Regina Vasilatos-Younken</td>
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I. Justification for Proposed Changes

In fall 2014, the doctoral program at UP first offered a pro-seminar for new Ph.D. and D.Ed. students. This course has been approved by Curricular Affairs as ADTED 521. The short and long course descriptions are as follows:

An orientation to the field of adult education and to doctoral study in the Adult Education Program at Penn State.

This course provides both an orientation to the field of adult education as an area of study and an initial seminar for doctoral students to understand the process of graduate study in this program. It is intended for both practitioners who have experience working with adult learners and people with little or no experience who have an interest in learning about the field. We will take a broad view of adult education and will accommodate the interest of persons concerned with non-formal education, informal learning, and formal learning in diverse settings. The principal aim is to develop a basic understanding of adult education in a global context as well as to begin preparing students for candidacy. The focus of the course will be on the socio-historical context of its methods, agencies, programs, and issues.

The reason for developing ADTED 521 was to provide a foundational course for all incoming doctoral students that would (a) familiarize them with key concepts in the scholarship and practice of adult education; (b) socialize them into the expectations for doctoral study; and (c) prepare them for the candidacy exam.

Before the development of the pro-seminar, D.Ed. students were required to take ADTED 460 (Introduction to Adult Education). This course or its equivalent was a prerequisite for Ph.D. students, meaning that if they already had a master’s degree in adult education or had taken a similar course at a previous institution, they did not need to take ADTED 460. We found that ADTED 460 did not meet the needs of our doctoral students at UP because it is only offered online (at Harrisburg it is offered face-to-face), it is geared toward master’s students, and it does not prepare students for candidacy or doctoral studies.

Doctoral students who have taken the pro-seminar attest that it helps form a cohesive, supportive cohort of incoming students and is therefore vital to their retention and success in the program. Conceptually, it ensures that all students begin the program on the same footing, regardless of how much professional experience they have in adult education. And the pro-seminar helps students be well prepared to take their candidacy exam in the next one or two semesters.

Currently, the pro-seminar is only offered at the University Park campus. Therefore, we are proposing to replace ADTED 460 with the pro-seminar (ADTED 521) only at the UP campus. ADTED 521 will become a required course for all doctoral students at UP. For Ph.D. students, this will mean 12 credits of required core courses rather than one pre-requisite and 3 core courses. The total number of credits, though, will not increase. The Ph.D. is only offered at UP.
These changes will not affect any programs other than ADTED. No additional faculty will be required to implement these changes. ADTED 521 has already been built into the teaching load for UP faculty.

II. Overview of Program Changes

There are no changes in admission requirements. A comparison of required courses is included below.

### D.Ed. Graduation Requirements

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<th>Current</th>
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<td><strong>ADTED CORE COURSES (9 credits)</strong></td>
<td><strong>ADTED CORE COURSES (9 credits)</strong></td>
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<tr>
<td>1. ADTED 460: Introduction to Adult Education</td>
<td>1. ADTED 460 (Introduction to Adult Education) or ADTED 521 (Doctoral Pro-Seminar)</td>
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<tr>
<td>2. ADTED 510: Social and Historical Issues in Adult Education</td>
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<td>3. ADTED 542: Perspectives on Adult Learning</td>
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| **ADTED ELECTIVES (12 credits)** | **ADTED ELECTIVES (12 credits)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |

| **MINOR or GENERAL STUDIES OPTION (15 credits)** | **MINOR or GENERAL STUDIES OPTION (15 credits)** |
| 1. | 1. |
| 2. | 2. |
| 3. | 3. |
| 4. | 4. |
| 5. | 5. |

| **COURSES IN RESEARCH DESIGN AND METHODS (at least 9 credits)** | **COURSES IN RESEARCH DESIGN AND METHODS (at least 9 credits)** |
| 1. Grad-level basic stats course | 1. Grad-level basic stats course |
| 2. ADTED 550: Qualitative Research in Adult Education | 2. ADTED 550: Qualitative Research in Adult Education |
| 3. Quant design/methods | 3. Quant design/methods |
| 4. | 4. |
| 5. | 5. |

- Thesis Research (15 credits of ADTED 600/610)
- Form Doctoral Committee
- Candidacy Examination
- Comprehensive Examination
- Dissertation Proposal Defense
- Final Oral Examination
- Graduation
### Ph.D. Graduation Requirements

<table>
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<th>Current</th>
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<td><strong>PREREQUISITE (3 credits)</strong></td>
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<tr>
<td>1. ADTED 460: Introduction to Adult Education (or equivalent)</td>
<td>1. ADTED 460: Introduction to Adult Education (or equivalent)</td>
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<td><strong>ADTED CORE COURSES (9 credits)</strong></td>
<td><strong>ADTED CORE COURSES (9 12 credits)</strong></td>
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<tr>
<td>1. ADTED 508: Introduction to Globalization and Lifelong Learning</td>
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<td>2. ADTED 510: Social and Historical Issues in Adult Education</td>
<td>2. ADTED 508: Introduction to Globalization and Lifelong Learning</td>
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<td>4. ADTED 542: Perspectives on Adult Learning</td>
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<td><strong>ADTED ELECTIVES (at least 6 credits)</strong></td>
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<td><strong>COURSES IN SUPPORTING AREAS (at least 9 credits)</strong></td>
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<td><strong>COURSES IN RESEARCH DESIGN AND METHODS (at least 18 credits)</strong></td>
<td><strong>COURSES IN RESEARCH DESIGN AND METHODS (at least 18 credits)</strong></td>
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<td>1. Grad-level basic stats course</td>
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<td>2. ADTED 550: Qualitative Research in Adult Education</td>
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Proposed Graduate Bulletin

Lifelong Learning and Adult Education (LLAED)

Program Home Page

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814-863-5990
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ELIZABETH J. TISDELL, Coordinator of Doctoral Program in Adult Education, Penn State Harrisburg
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Degrees Conferred:

Graduate Faculty

The Graduate Faculty, University Park

- Craig Campbell, D.Ed. (NORTHERN ILLINOIS UNIVERSITY), Assistant Professor of Education
- William Diehl, Ph.D. (PENNSYLVANIA STATE UNIVERSITY), Assistant Professor of Education
- John Holst, D.Ed. (NORTHERN ILLINOIS UNIVERSITY), Associate Professor of Education
- Esther S. Prins, Ph.D. (CORNELL UNIVERSITY), Associate Professor of Education
- Adnan Qayyum, Ph.D. (CONCORDIA UNIVERSITY), Assistant Professor of Education
- Rebecca Tarlau, Ph.D. (UNIVERSITY OF CALIFORNIA-BERKELEY), Assistant Professor of Education

The Graduate Faculty, Harrisburg

- Irene C. Baird, D.Ed. (PENNSYLVANIA STATE UNIVERSITY), Affiliate Assistant Professor of Education
- Rebecca Beatty, D.Ed., Affiliate Assistant Professor
- Felicia Brown-Haywood, D.Ed. (PENNSYLVANIA STATE UNIVERSITY), Assistant Professor
- Ilhan Kucukaydin, D.Ed. (PENNSYLVANIA STATE UNIVERSITY), Affiliate Assistant Professor, Webmaster/Database Administrator/Instructor
- Robin Redmon Wright, Ph.D. (TEXAS A & M UNIVERSITY), Assistant Professor of Adult Education
- David Rodgers, Ed.D. (MARSHALL UNIVERSITY), Affiliate Assistant Professor of Adult Education
- Heather Stuckey, D.Ed. (PENNSYLVANIA STATE UNIVERSITY), Assistant Professor of Medicine, Affiliate Assistant Professor of Adult Education
- Ann L. Swartz, D.Ed. (PENNSYLVANIA STATE UNIVERSITY), Affiliate Assistant Professor of Adult Education; Senior Lecturer, Nursing
- Edward W. Taylor, Ed.D. (UNIVERSITY OF GEORGIA), Professor of Adult Education
The Graduate Faculty, World Campus

- Craig Campbell, D.Ed. (NORTHERN ILLINOIS UNIVERSITY), Assistant Professor of Education
- William Diehl, Ph.D. (PENNSYLVANIA STATE UNIVERSITY), Assistant Professor of Education
- John Holst, D.Ed. (NORTHERN ILLINOIS UNIVERSITY), Associate Professor of Education
- Esther S. Prins, Ph.D. (CORNELL UNIVERSITY), Associate Professor of Education
- Adnan Qayyum, Ph.D. (CONCORDIA UNIVERSITY), Assistant Professor of Education
- Rebecca Tarlau, Ph.D. (UNIVERSITY OF CALIFORNIA-BERKELEY), Assistant Professor of Education

The Programs

Lifelong Learning and Adult Education extends through the life span from late adolescence to advanced age and takes place in a rich diversity of organizational as well as informal settings. The purpose of the Lifelong Learning and Adult Education program is to increase the knowledge and competence of those who work with adult learners. Course work, reading assignments, research projects, internships, informal discussions, and the dissertation all provide opportunities for in-depth and challenging learning experiences. The Lifelong Learning and Adult Education program is interdisciplinary, and students are advised to take courses in supporting fields within the University.

The M.Ed. is offered through the World Campus and at Harrisburg and University Park. The D.Ed. is offered at Harrisburg and University Park. The Ph.D. is offered only at University Park.

Admission Requirements (for M.Ed., D.Ed., and Ph.D.)

Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin.

The candidate must apply to the Program via the Graduate School application for admission. Scores from the Graduate Record Examinations (GRE) or the Miller Analogies Test (MAT) are required for admission. Either the GRE or MAT score is accepted for the D. Ed. and M. Ed. programs, but GRE scores are preferred. The Ph.D. program accepts only the GRE. At the discretion of a graduate program, a student may be admitted provisionally for graduate study in the program without these scores.

The best-qualified applicants will be accepted up to the number of spaces that are available for new students. Applicants with a total Verbal and Quantitative score above 302 on the GRE or 398 or above on the MAT, a junior/senior grade point average (GPA) of 3.00 or above (on a 4.00 scale), and a graduate GPA of 3.50 or above will be highly considered applicants to the program. However, applicants with strong backgrounds and abilities in areas of particular interest or relevance to adult education practice may be admitted to either of the doctoral programs with a baccalaureate degree only (provided the junior/senior GPA is at least 3.0), or with master’s-level studies in which the graduate GPA is at least 3.2 and the GRE total score is at least 297.
A sample of student writing is required for each degree. M.Ed. applicants submit a recent writing sample, such as a term paper, report, or publication of 3000 words or more. Ph.D. and D.Ed. applicants should submit either a published article, master’s paper, master’s thesis, or a paper from their master’s studies.

Three letters of reference are required from people who are best qualified to evaluate the applicant’s ability to succeed in graduate study. These letters may be from an academic adviser, instructors who are familiar with the applicant’s academic record, a research project supervisor, an employment supervisor, or others who are able to provide a substantive evaluation of the applicant’s work. Letters of recommendation must address the applicant’s academic ability, motivation, and likelihood of success in completing the program.

A statement of purpose describing the applicant’s short and long range career objectives is required. This statement includes an explanation of how the proposed study of adult education relates to the stated career objectives.

Applicants who exhibit exceptional qualities without meeting all of the stated requirements for admission may be considered for provisional admission while they remove the identified deficiencies. Deficiencies must be rectified within the first two semesters of enrollment in the degree program; courses taken to remove deficiencies are considered to be prerequisites and do not earn credit toward the degree.

**Admission Requirements for Joint M.D./M.Ed.**

Admission requirements listed here are in addition to requirements stated in the GENERAL INFORMATION section of the Graduate Bulletin.

Those who wish to apply for admission to the joint M.D./M.Ed. degree program would have to meet the admission requirements for both the M.D./M.Ed. programs. Admissions requirements and applications for Penn State College of Medicine are available at the M.D. Program section of the Penn State College of Medicine website. Prospective students interested in simultaneously pursuing an M.D. and M.Ed. first must apply to the Penn State College of Medicine M.D. program using the national American Medical College Application Service (AMCAS) application system and indicate their intent to pursue the M.D. degree at Penn State. Applicants are encouraged to identify themselves as candidates for the joint degree program at this time. However, medical students who realize after accepting admission into Penn State’s College of Medicine that they are interested in the joint M.D./M.Ed. can apply for admission to the joint degree during their first three years in the College of Medicine. Given that students will already be enrolled in the College of Medicine it will be possible for faculty to observe their academic record and counsel them on the advisability of the joint degree. The general admission requirements for the M.Ed. degree are listed above. Joint M.D./M.Ed. candidates may substitute the MCAT for GRE or MAT scores. After the student has been accepted to the College of Medicine, s/he must apply and be admitted to the Graduate School for admission to the graduate program. The general admission requirements for the M.Ed. degree are listed above.

**Admission Requirements for the Dual-Title Ph.D., D.Ed., and M.Ed. in Comparative and International Education**

Students must apply and be admitted to the graduate program in Lifelong Learning and Adult Education and The Graduate School before they can apply for admission to the dual-title degree program. After admission to their primary program, students must apply for admission to and meet the admissions
requirements of the Comparative and International Education dual-title program. Refer to the Admission Requirements section of the Comparative and International Education Bulletin page. Doctoral students must be admitted into the dual-title degree program in Comparative and International Education prior to obtaining candidacy in their primary graduate program.

**General Master’s Degree Requirements**

Requirements listed here are in addition to requirements stated in the **DEGREE REQUIREMENTS** section of the Graduate Bulletin.

A minimum of 30 credits is required for the M.Ed. degree. The M.Ed. program in Lifelong Learning and Adult Education consists of a required core of 12 credits in ADTED courses and 18 credits in ADTED or other electives. The 12 core ADTED credits include the following four specified courses: ADTED 460, 505, 542, and 588. Students then choose an additional 18 credits (six courses) from the following ADTED courses in consultation with their adviser: 456, 457, 470, 480, 501, 502, 506, 507, 509, 510, 531, 532, 533, 560, 575, or 581. Other courses may be substituted for these electives with the adviser’s permission.

M.Ed. students are required to write a master’s paper as part of the required 30 credits of course work. Students complete the master’s paper while enrolled in ADTED 588 during their last semester. A minimum of 18 credits out of the 30 must be taken at the 500 or 800 level, with a minimum of 6 credits at the 500 level, and a minimum of 24 credits must be in ADTED prefix courses.

M.Ed. students must select either the general M.Ed. degree or one of three formal options: (1) Adult Basic Education and Literacy; (2) Global and Online Distance Education; and (3) Medical and Health Professions. M.Ed. students who select a formal option must adhere to the requirements specified below.

**Requirements for the M.Ed. – Adult Basic Education and Literacy Option**

The M.Ed. in Lifelong Learning and Adult Education – Adult Basic Education and Literacy Option consists of a required core of 12 credits in ADTED courses, 12 credits in ADTED courses required for this option, and 6 credits of ADTED or other electives. The 12 core ADTED credits include the following four specified courses: ADTED 460, 505, 542, and 588. All students in this option also take four required courses: ADTED 480, 507, 509, and 560. Students then choose an additional 6 credits (two courses) from the following ADTED courses in consultation with their adviser: ADTED 456, 457, 470, 506, 510, 531, 533, 575, or 581. Other courses may be substituted for these electives with the adviser’s permission.

**Requirements for the M.Ed. – Global Online and Distance Education Option**

The M.Ed. in Lifelong Learning and Adult Education – Global Online and Distance Education Option consists of a required core of 12 credits in ADTED courses, 12 credits in ADTED courses required for this option, and 6 credits of ADTED or other electives. The 12 core ADTED credits include the following four specified courses: ADTED 460, 505, 542, and 588. All students in this option also take four required courses: ADTED 470, 531, 532, and 533. Students then choose an additional 6 credits (two courses) from the following courses in consultation with their adviser: ADTED 506, ADTED 510, ADTED 575, ADTED 581, INSYS 432, or INSYS 467. Other courses may be substituted for these electives with the adviser’s permission.
Requirements for the M.Ed. – Medical and Health Professions Option

The M.Ed. in Lifelong Learning and Adult Education – Medical and Health Professions Option consists of a required core of 12 credits in ADTED courses, 9 credits in ADTED courses required for this option, and 9 credits of ADTED or other electives. The 12 core ADTED credits include the following four specified courses: ADTED 460, 505, 542, and 588. All students in this option also take three required courses: ADTED 501, 502, and 507. Students then choose at least 3 additional credits (one course) from the following ADTED courses in consultation with their adviser: ADTED 470, 510, 531, 533, 575, or 581. Other courses may be substituted for these electives with the adviser’s permission. Students may choose 6 additional credits of electives in consultation with their adviser.

Ph.D. and D.Ed. Doctoral Degree Requirements

Requirements listed here are in addition to requirements stated in the DEGREE REQUIREMENTS section of the Graduate Bulletin. A minimum of 45-48 credits beyond the master’s degree is required for the Ph.D. degree. Ph.D. students are required to take:

- 12 core credits in Lifelong Learning and Adult Education: ADTED 521 (3 cr.), ADTED 508 (3 cr.), ADTED 510 (3 cr.), and ADTED 542 (3 cr.).
- 18 credits in an emphasis area, including at least 6 credits of ADTED electives and at least 9 credits chosen from one or more Supporting Area(s) outside of Lifelong Learning and Adult Education. A list of courses that will count towards the Supporting Areas requirement is maintained by the graduate program office.
- 18 research credits, including one graduate-level basic statistics course, ADTED 550 (3 cr.), and one course on quantitative design/methods.

In addition, Ph.D. students must fulfill the residency requirement and English competence requirements, must pass candidacy, comprehensive, and final oral examinations, and maintain continuous registration during dissertation research.

Ph.D. students are required to take 12 core credits in Lifelong Learning and Adult Education, 18 credits in an emphasis area that is composed of Lifelong Learning and Adult Education and supporting courses outside Lifelong Learning and Adult Education, and 18 research credits, in addition to the residency requirement, candidacy, comprehensive, and final oral examinations, and continuous registration during the dissertation research. To earn the Ph.D. degree, doctoral students must also write a dissertation that is accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

A minimum of 60 credits beyond the master’s degree is required for the D.Ed. degree. A minimum of 90 credits is required for the D.Ed. degree, of which at least 30 must be earned in residence at either University Park or Penn State Harrisburg. D.Ed. students who do not have previous experience in adult education are expected to acquire the equivalent of one year of experience in one or more fields of adult education practice prior to receiving their D.Ed. degree. All doctoral students must pass a candidacy examination, a comprehensive written and oral examination, and a final oral examination. To earn the D.Ed. degree, doctoral students must also write a dissertation that is accepted by the doctoral committee, the head of the graduate program, and the Graduate School. The candidacy examination is administered after when the student has earned a total of at least 30 credits toward the graduate degree, including the master’s program and graduate work done elsewhere. During the comprehensive examination, in addition to being examined in their area of specialization, all D.Ed. students are examined in the core
adult education areas. A minimum of 21 credits in course work must be taken in Lifelong Learning and Adult Education, including 9 credits in core courses (ADTED 460 or 521 (3 cr.), ADTED 510 (3 cr.), and ADTED 542 (3 cr.)), and 12 credits of ADTED electives. A minimum of 15 credits must be taken outside Lifelong Learning and Adult Education as a minor or General Studies option. A minimum of 9 credits must be taken in research methods courses, including one graduate-level basic statistics course, ADTED 550 (3 cr.), and one course on quantitative design/methods. A minimum of 15 research credits (ADTED 600 or 610) is required.

Students in the Ph.D. program focus on research in Globalization and Lifelong Learning, selecting one emphasis area (Distance Education, Literacy for Culturally and Linguistically Diverse Populations, Comparative Lifelong Learning, or Learning in Work and Communities). Required research methods courses help students develop the background knowledge and tools to enable them to engage in original research. D.Ed. students conduct applied research with the goal of improving practice in the general adult education field.

**Joint M.D./M.Ed. Degree Requirements**

Students must fulfill all requirements for each degree in order to be awarded that degree, subject to the double-counting of credits as outlined below. Degree requirements for the M.D. program are listed on the [M.D. Program](#) section of the Penn State College of Medicine website. Degree requirements for the M.Ed. degree are listed in the General Master's Degree Requirements section above. In accordance with the [Graduate Council policy on Joint Degree Programs](#), any nine credits from the M.D. program will meet the substitution requirement into the M.Ed., and any nine credits from the M.Ed. will be accepted into the M.D. program, from among the courses that reflect the interdisciplinary common ground between the two programs. It is to be noted that the course requirements for the joint degree are the same for students admitted to the M.Ed. in Lifelong Learning and Adult Education in the Medical and Health Professions option. If students accepted into the joint degree program are unable to complete the M.D. degree, they are still eligible to receive the M.Ed. degree if all the M.Ed. degree requirements have been satisfied.

**Dual-Title Ph.D., D.Ed., and M.Ed. in Comparative and International Education**

To qualify for the dual-title degree, students must satisfy the degree requirements for the degree they are enrolled in Lifelong Learning and Adult Education, listed above. In addition, students must complete the degree requirements for the dual-title in Comparative and International Education, listed on the [Comparative and International Education Bulletin](#) page.

The candidacy examination committee for the dual-title Ph.D. degree will be composed of Graduate Faculty from Lifelong Learning and Adult Education and must include at least one Graduate Faculty member from the Comparative and International Education program. Faculty members who hold appointments in both programs' Graduate Faculty may serve in a combined role. There will be a single candidacy examination, containing elements of both Lifelong Learning and Adult Education and Comparative and International Education. Dual-title graduate degree students may require an additional semester to fulfill requirements for both areas of study and, therefore, the candidacy examination may be delayed one semester beyond the normal period allowable.
In addition to the general Graduate Council requirements for doctoral committees, the doctoral committee of a Lifelong Learning and Adult Education and Comparative and International Education dual-title Ph.D. student must include at least one member of the Comparative and International Education Graduate Faculty. Faculty members who hold appointments in both programs’ Graduate Faculty may serve in a combined role. If the chair of the doctoral committee is not also a member of the Graduate Faculty in Comparative and International Education, the member of the committee representing Comparative and International Education must be appointed as co-chair. The Comparative and International Education representative on the student’s doctoral committee will develop questions for and participate in the evaluation of the comprehensive examination.

Students in the dual-title program are required to write and orally defend a dissertation on a topic that is approved in advance by their doctoral committee and reflects their original research and education in Lifelong Learning and Adult Education and Comparative and International Education. Upon completion of the doctoral dissertation, the candidate must pass a final oral examination (the dissertation defense) to earn the Ph.D. degree. The dissertation must be accepted by the doctoral committee, the head of the graduate program, and the Graduate School.

Student Aid

Graduate assistantships and other forms of student aid are described in the STUDENT AID section of the Graduate Bulletin. Students on graduate assistantships must adhere to the course load limits set forth in the Graduate Bulletin.

Courses

Graduate courses carry numbers from 500 to 699. Advanced undergraduate courses numbered between 400 and 499 may be used to meet some graduate degree requirements when taken by graduate students. Courses below the 400 level may not. A graduate student may register for or audit these courses in order to make up deficiencies or to fill in gaps in previous education but not to meet requirements for an advanced degree.
III. Consultation

I emailed a copy of this proposal to Libby Tisdell (Harrisburg ADTED Program) and sent numerous follow-up emails, but did not receive a response. The rest of the UP and Harrisburg faculty all support this change, as demonstrated by their emails below.

**Email from Roy Clariana, LPS Department Head**

Dr. Prins,

I am fully supportive of this doctoral program change to replace ADTED 460 with ADTED 521 (Pro seminar). Recently, I did a teaching peer-review of ADTED 521 and so I had the opportunity to understand the course in greater detail. In my view, it provides a strategic and thorough introduction and overview to the LLAED program in general, to the specific program faculty, and to the research endeavor that are the core of doctoral level scholarship. ADTED 521 is an exemplar course that should be emulated/cloned by other doctoral programs.

...Roy Clariana
Professor of Education, Learning, design, and Technology and department Head, Learning and Performance Systems

**Email from Ed Taylor, PIC of Lifelong Learning and Adult Education, Harrisburg campus**

Esther, I support this change. Ed

**Emails from ADTED faculty**

Good morning,

I approve of the proposed change.

All the best,

Will

William C. Diehl, Ph.D.
Assistant Professor and Coordinator of Online Graduate Programs
Lifelong Learning and Adult Education
College of Education
The Pennsylvania State University
University Park, PA

Interviews Editor, The American Journal of Distance Education
Hi Esther,
I certainly approve of the change. I think it will be good for the program.

Robin

Robin Redmon Wright, PhD
Assistant Professor of Adult Education
Penn State Harrisburg
777 West Harrisburg Pike
Olmsted W314
Middletown, PA 17057
717-948-6405
rrw12@psu.edu

I also approve the proposed changes. -Adnan.

Hi Esther,

I support this positive change to the doctoral program.

Thanks,

Craig

Craig A. Campbell, Ed.D.
Assistant Professor
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303A Keller Building
Penn State | College of Education
University Park, PA
(814) 863-0814