

Rec. #2017-08-01 UNIVERSITY SENATE RECOMMENDATION TO THE PROVOST
The University Senate recommends the Graduate Council Report dated May 2017
to the Provost for endorsement.



Graduate Council

Agenda—May 11, 2017, 2:00 p.m.
Academic Affairs Conference Room WAB 239

1. Call to Order
2. Consideration of April 6, 2017 minutes
3. Committee Reports
 - a. Curriculum Committee (Report included as Attachment 1)
 - b. Policy Committee
 - c. Student Research Grants Committee (Report included as Attachment 2)
4. Report from Dean of the Graduate School
 - a. Graduate Faculty (Report Included as Attachment 3)
5. Public Comments
6. Announcements & Adjourn

Attachment 1
Graduate Council Program and Curriculum Committee (GCC)

Report to the Graduate Council

Date: May 1, 2017

From: Kirk Atkinson, Chair

May 11, 2017 Graduate Council

Consent Agenda Report. The GCC deals with Action, Consent, and information Items. If items pass at the GCC meeting, Action Items become Consent Items to the full Council, Information Items remain unchanged. The GCC then submits the consent and information items from its current meeting for approval by the Graduate Council. Minutes along with the approved agenda of each meeting will be posted on [GCCC web site](#).

Gordon Ford College of Business
Single Submission, no header information provided

[Jump to GFCB](#)

Consent	Proposal to Create a New Course Games and Strategy Contact: Susane Leguizamon Email: susane.leguizamon@wku.edu Phone: 270-745-2635
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Potter College of Arts & Letters
Office of the Dean
5-2344

[Jump to PCAL](#)

TYPE OF ITEM	DESCRIPTION OF ITEM & CONTACT INFORMATION
Consent	<p>Proposal to Revise a Course</p> <p>Item: PS 501- Methods of Political Inquiry Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Consent	<p>Proposal to Revise a Course</p> <p>Item: PS 505- Washington Internship and Seminar Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Consent	<p>Proposal to Revise a Course</p> <p>Item: PS 538- Ethics in Bureaucracy Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Consent	<p>Proposal to Revise a Course</p> <p>Item: PS 540 – Seminar in Public Organizations Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Consent	<p>Proposal to Revise a Course</p> <p>Item: PS 545- Seminar in Public Policy Analysis Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Consent	<p>Proposal to Revise a Course</p> <p>Item: PS 546- Public Policy Evaluation Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Action	<p>Proposal to Revise a Course</p> <p>Item: PS 541 – Public Personnel Administration Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Action	<p>Proposal to Revise a Course</p> <p>Item: PS 542- Government Financial Administration Contact Person: Daniel Boden Email: daniel.boden@wku.edu Phone: 5-6357</p>
Consent	<p>Proposal to Create a New Course</p> <p>Item: HIST 507 – The Crusades Contact: Jeff Miner Email: jeffrey.miner@wku.edu Phone: 650-714-9581</p>

**College of Education and Behavioral Sciences
Dean's Office 745-4020**

[Jump to CEBS](#)

TYPE OF ITEM	DESCRIPTION OF ITEM & CONTACT INFORMATION
<p align="center">Consent</p> <p>Pulled from the Agenda at proponent's request</p>	<p>Proposal to Create a New Certificate Program</p> <p>Item: Educational Leadership Executive Coaching</p> <p>Contact: Margie Desander</p> <p>Email: marguerita.desander@wku.edu</p> <p>Phone: (270) 745-4890</p>

**Ogden College of Science and Engineering
Western Kentucky University
Office of the Dean
745-6371**

[Jump to OCSE](#)

Consent	<p>Proposal to Revise a Course AGRO 409G, Weed Science Contact person: Todd Willian, todd.willian@wku.edu, 5-5969</p>
Consent	<p>Proposal to Revise a Course AGRO 410G, Weed Science Laboratory Contact person: Todd Willian, todd.willian@wku.edu, 5-5969</p>
Consent	<p>Proposal to Revise a Program Ref. 052, Master of Science in Agriculture Contact person: Fred DeGraves, fred.degraves@wku.edu, 5-5960</p>
Consent	<p>Proposal to Create a New Program Graduate Certificate in Biology Contact person: Michael Smith, michael.smith@wku.edu, 5-2405</p>
Consent	<p>Proposal to Revise a Program Ref: 0442, Biology Education for Teacher Leaders, Master of Arts Education Contact person: Michael Smith, michael.smith@wku.edu, 5-2405</p>
Consent	<p>Proposal to Revise a Program Ref. 059, Chemistry, Master of Science Contact person: Eric Conte, eric.conte@wku.edu, 5-6019</p>

**College of Health and Human Services
Dean's office 745-8912
Report to the Graduate Council Curriculum Committee**

[Jump to CHHS](#)

Type of Item	Description
Consent	Create a New Certificate Program Health Education Contact: Marilyn Gardner, marilyn.gardner@wku.edu , 270-745-5864

**Gordon Ford College of Business
Economics Department
Proposal to Create a New Course
(Action Item)**

Contact Person: Susane Leguizamon, susane.leguizamon@wku.edu

1. Identification of proposed course:

- 1.1 Course prefix (subject area) and number: ECON 451G
- 1.2 Course title: Games and Strategy
- 1.3 Abbreviated course title: Games and Strategy
(maximum of 30 characters or spaces)
- 1.4 Credit hours: 3.0
- 1.5 Variable credit: no
- 1.6 Repeatable : NO
- 1.7 Grade type: standard letter grade
- 1.8 Prerequisites/corequisites: ECON 202, 203 and 206 with a grade of "C" or higher
- 1.9 Corequisites: none
- 1.10 Course description: This course is an introduction to game theory analysis. Students will develop the theoretical tools to analyze incentives and strategic behavior in individual and group decision making. Emphasis will be placed on real-world applications and include, but is not limited to, bargaining under perfect and imperfect information, Nash equilibrium, pricing under Oligopoly and auction theory.
- 1.11 Course equivalency: none

2. Rationale:

- 2.1. Reason for developing the proposed course: Game theory provides us with a structured framework to make sense of human interactions. This course will give students the tools necessary to explain how individuals and firms interact in a consistent, mathematical fashion. This course explores cases where markets and individuals do not exist in a perfectly rational environment. This course is offered at several of our peer institutions:
 - Auburn University-Montgomery: ECON 4310-Games and Strategy;
 - University of Central Missouri: ECON 4060-Game Theory Applications;
 - University of North Carolina-Charlotte: ECON 6206-Game Theory and Experiments;
 - Western Illinois University: ECON 445: Game Theory and Economic Behavior.

The course is also offered as a field course in doctoral programs in economics. This beginning course will expose students to this important field in economics.

- 2.1 Relationship of the proposed course to courses at WKU:
This course currently exists as ECON 451 without the graduate component. This type of course is not offered in other departments.

3. Discussion of proposed course:

- 3.1 Schedule type: L

**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1. Identification of course

- 1.1 Course prefix (subject area) and number: PS 505
- 1.2 Course title: Washington Internship and Seminar

2. Proposed change(s):

- 2.1 course number: 595
- 2.2 course title: Washington Internship and Seminar
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: The change in course number is to more accurately group thematically similar classes in our graduate curriculum. This should help simplify faculty advising and student course planning.

4. Term of implementation: Fall 2018

5. Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

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**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1. Identification of course

- 1.1 Course prefix (subject area) and number: PS 538
- 1.2 Course title: Ethics and Bureaucracy

2. Proposed change(s):

- 2.1 course number: 538
- 2.2 course title: Public Service Ethics
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: The change in course title is motivated by a need to consistent with evolving standards suggested by our accrediting body--Network of Schools of Public Policy, Affairs, and Administration.

4. Term of implementation: Fall 2018

5. Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1. Identification of course

- 1.1 Course prefix (subject area) and number: PS 540
- 1.2 Course title: Seminar in Public Sector Organizations

2. Proposed change(s):

- 2.1 course number: 530
- 2.2 course title: Public Sector Organizations
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: The change in course number is to more accurately group thematically similar classes in our graduate curriculum. This should help simplify faculty advising and student course planning. The change in course title is motivated by a need to consistent with evolving standards suggested by our accrediting body--Network of Schools of Public Policy, Affairs, and Administration.

4. Term of implementation: Fall 2018

5. Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1 Identification of course

1.1 Course prefix (subject area) and number: PS 545
1.2 Course title: Seminar in Public Policy Analysis

2 Proposed change(s):

2.1 course number: 560
2.2 course title: Public Policy Theory
2.3 credit hours:
2.4 grade type:
2.5 prerequisites:
2.6 corequisites:
2.7 course description:
2.8 other:

3 Rationale for revision of course: The change in course number is to more accurately group thematically similar classes in our graduate curriculum. This should help simplify faculty advising and student course planning. The change in course title is motivated by a need to consistent with evolving standards suggested by our accrediting body--Network of Schools of Public Policy, Affairs, and Administration.

4 Term of implementation: Fall 2018

5 Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1 Identification of course

1.1 Course prefix (subject area) and number: PS 546
1.2 Course title: Public Policy Evaluation

2 Proposed change(s):

2.1 course number: 562
2.2 course title: Public Policy Implementation & Evaluation
2.3 credit hours:
2.4 grade type:
2.5 prerequisites:
2.6 corequisites:
2.7 course description:
2.8 other:

3 Rationale for revision of course: The change in course number is to more accurately group thematically similar classes in our graduate curriculum. This should help simplify faculty advising and student course planning. The change in course title is motivated by a need to consistent with evolving standards suggested by our accrediting body--Network of Schools of Public Policy, Affairs, and Administration.

4 Term of implementation: Fall 2018

5 Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1. Identification of course

- 1.1 Course prefix (subject area) and number: PS 541
- 1.2 Course title: Public Personnel Administration

2. Proposed change(s):

- 2.1 course number: 541
- 2.2 course title: Human Resources Management in Public Administration
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: The change in course title is motivated by a need to consistent with evolving standards suggested by our accrediting body--Network of Schools of Public Policy, Affairs, and Administration.

4. Term of implementation: Fall 2018

5. Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: 02/27/2017
College, Department: Potter College of Arts and Letters, Political Science
Contact Person: Name, email, phone Daniel Boden
daniel.boden@wku.edu
270-745-3657

1. Identification of course

- 1.1 Course prefix (subject area) and number: PS 542
- 1.2 Course title: Government Financial Administration

2. Proposed change(s):

- 2.1 course number: 542
- 2.2 course title: Public & Nonprofit Budgeting
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description:
- 2.8 other:

3. Rationale for revision of course: The change in course title is motivated by a need to consistent with evolving standards suggested by our accrediting body--Network of Schools of Public Policy, Affairs, and Administration.

4. Term of implementation: Fall 2018

5. Dates of committee approvals:

Department	02/27/2017
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

Create a New Course

(Action)

Date: 2/17/2017

Potter College

History Department

Contact Person: Jeffrey Miner, jeffrey.miner@wku.edu, 650.714.9581

1. Proposed course:

- 1.1 Course prefix (subject area) and number: HIST 507
- 1.2 Course title: The Crusades
- 1.3 Abbreviated course title: The Crusades
(maximum of 30 characters or spaces)
- 1.4 Credit hours: 3.0
- 1.5 Variable credit (yes or no): no
- 1.6 Repeatable (yes or no) for total of ___ hours: No
- 1.7 Grade type: Standard letter grade
- 1.8 Prerequisites: None
- 1.9 Corequisites: None
- 1.10 Course description: The history and scholarship of the Crusades. It will cover major scholarly works on the Crusades and crusading as well as the expansion of Crusade studies into new geographic contexts (the Baltic, the Americas, et al.) and into time periods from the Late Middle Ages to the present.
- 1.11 Course equivalency: None

2. Rationale:

- 2.1 Reason for developing the proposed course:
The Crusades is currently taught as a combined graduate and undergraduate course (HIST 407 / 407 G). However, the needs and abilities of graduate students are different enough from undergraduates that instructing both groups through the same curriculum fails to adequately meet the needs of either population. Undergraduates tend to benefit most from carefully-controlled instruction in the basic skills of source interpretation, for example, while graduate students need to be pushed to develop their abilities to read professional historians and scholarship in higher volumes. Creating this course will allow graduate students receive instruction, do readings, and complete work tailored to their particular needs and abilities.

While courses on the crusades are extremely common at many universities, those in the commonwealth do not currently offer an online graduate course. Because it is conducted online, it will be suitable for distance learning.

2.2 Relationship of the proposed course to other courses at WKU:

Replaces HIST 407G, which is to be eliminated. This course could be suitable for graduate students in other departments, such as religious studies. It will broaden the history department's offerings by allowing graduate students more options in pre-modern history while still covering a topic of continuing importance and current relevance.

3. Discussion of proposed course:

3.1 Schedule type: Seminar

3.2 Learning Outcomes:

Upon completion of this course, students should be able to

- Explain the origins of the first crusade of 1096-1101 in the culture and institutions of eleventh-century Europe
- Describe and explain the adaptation of crusading ideas, rhetoric and institutions to different circumstances from 1100 to 1350.
- Describe the ongoing changes of crusade ideas and institutions from 1350 to the present.
- Explain how and why contemporary scholars are thinking about crusades in broader geographic and chronological contexts.
- Identify the major trends or developments in scholarship on the crusades from the mid-twentieth century to the present.
- Clearly and concisely summarize a scholarly article or monograph.
- Understand how scholars build interpretations from primary source evidence and how their theoretical commitments or assumptions inform their research and arguments
- See how scholars adapt specialized monographs and articles into textbook chapters for a broader audience.
- Develop an analytical bibliography

3.3 Content outline:

- I. The Origins of the Crusade Movement
- II. Institutionalization of crusading from 1100 to 1350
- III. The afterlife of crusading from 1350 the present
- IV. The four schools of crusade historiography
- V. Contemporary trends: Iberia & the Baltic
- VI. Contemporary trends: The later crusades

- VII. Contemporary trends: The crusader states & military orders
- VIII. Crusade in the modern imagination and popular culture
- IX. Textbook approaches to the crusades

3.4 Student expectations and requirements: Students will be expected to write an analytical summary of a scholarly argument each week during the semester. They will participate in twice-weekly online discussion boards relating to the week’s readings. The final project will consist of an historiographical essay on a sub-theme or topic in crusade scholarship, chosen in consultation with the instructor.

3.5 Tentative texts and course materials:

Thomas F. Madden, *The Crusades: The Essential Readings*. Blackwell (2002).

Jonathan Riley-Smith, *What Were the Crusades?* Ignatius Press (2009).

Christopher Tyerman, *The Debate on the Crusades, 1099-2010* Manchester (2011)

4. Budget implications:

- 4.1 Proposed method of staffing: Current staffing levels are adequate.
- 4.2 Special equipment, materials, or library resources needed: Current resources are adequate

5. Term for implementation: Fall 2017

6. Dates of committee approvals:

History Department	3/10/17
Potter College Curriculum Committee	04/06/2017
Professional Education Council (if applicable)	
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

****New course proposals require a Course Inventory Form be submitted by the**

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CEBS
Certificate Program - Create New
(Action)

Date: August 8, 2016

College: College of Education and Behavioral Sciences

Department: Educational Administration, Leadership, & Research

Contact Person: Margie DeSander, marguerita.desander@wku.edu, 5-4890

1. Identification of program:

- 1.1 Program title: Educational Leadership Executive Coaching
- 1.2 Required hours: 12
- 1.3 Program Description: A program for educational leadership students to prepare them to mentor current or aspiring leaders in their development.
- 1.4 Classification of Instructional Program Code (CIP): 13.0401

2. Learning outcomes of the proposed certificate program:

Students who complete the certificate will be able to

1. Describe key historical and contemporary theories of leadership.
2. Describe research regarding leadership development and effectiveness.
3. Describe their own leadership approach within the context of leadership theory and research.
4. Demonstrate growth in their own leadership capacity as a result of applying skills and concepts drawn from the leadership literature to their internship experience.
5. Analyze leadership, team, and organizational characteristics and behaviors toward solving common workplace problems at both the tactical and strategic levels.
6. Identify key values to guide individuals and organizations.
7. Describe theories, research, and processes related to effective leadership coaching.
8. Use theoretical-, empirical-, and self-knowledge, as well as an ethical framework, to support and mentor aspiring or newly appointed leaders.

3. Rationale:

- 3.1 Reason for developing the proposed certificate program: Executive coaching is a fast growing area of leadership development that would give educational leadership doctoral students and other educational leadership students an advantage as they explore future leadership training opportunities.
- 3.2 Relationship of the proposed certificate program to other programs now offered by the department: No other certificates are offered in the EDD program.
- 3.3 Relationship of the proposed certificate program to certificate programs offered in other departments: The University College houses a graduate leadership studies certificate that is generalist in nature, and, thus, not specifically geared toward helping leaders develop the capacity of mentoring and coaching other current or aspiring leaders.
- 3.4 Projected enrollment in the proposed certificate program: 10 per academic year.
- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): East Tennessee State University has an executive coaching course as part of their leadership development program for all university employees. Middle Tennessee State University's Center for Organizational and Human Resource Effectiveness offers executive coaching services, but no certificate program.

Northern Illinois University’s Center for Human Capital and Leadership offers a “Coaching for Success” professional development program. University of Southern Mississippi has a Training and Development Certificate Program that includes an executive coaching component. Georgetown University’s School of Continuing Studies offers a Leadership Coaching certificate; New York University’s School of Professional Studies offers an Organizational and Executive Coaching certificate; Harvard University’s Division of Continuing Education offers Leadership Coaching Strategies seminars.

3.6 Relationship of the proposed certificate program to the university mission and objectives: This certificate ties with the university mission of creating “citizen-leaders” and specifically relates to strategic plan objective 1.5, “prepare students for lifelong learning and success,” by helping fulfill the associated strategy, “expand leadership training and development opportunities for students.”

4. **Admission Criteria:** An earned Master’s degree. Please refer to the [admission section](#) of this catalog for Graduate School admission requirements.

5. **Curriculum:** Twelve hours total of coursework in the following three areas:

- (a) Leadership Content Knowledge (6 hours) – EDLD 710 (*Leadership Theories and Ethics*, 3 hours) and EDLD 720 (*Individual and Group Issues in Leadership*, 3 hours)
- (b) Educational Leadership Seminar – EDLD 794 (focused on executive coaching, 3 hours)
- (c) Executive Leadership Doctoral Program Internship – EDLD 798 (focused on leadership coaching, 3 hours)

Notes: 1) EDLD 710 has a prerequisite of EDLD 702 or permission of instructor. 2) The Executive Coaching Internship must be approved by the certificate program coordinator.

6. **Budget implications:** All designated courses described under “Curriculum” are already offered as part of the existing EDD program curriculum. Based on student interest, the EDLD 794 course with executive coaching as the topic may need to be offered more frequently.

7. **Term of implementation:** Winter 2018

8. **Dates of committee approvals:**

Department	11/29/2016
College Curriculum Committee	10/4/2016
Office of Academic Affairs (if ≥18 hour program)	NA
Professional Education Council (if applicable)	NA
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	Pulled from agenda at proponent’s request
University Senate	
Board of Regents	

**OCSE
Revise a Course
Action**

Date: February 1, 2017

College, Department: Ogden College of Science and Engineering, Department of Agriculture

Contact Person: Todd Willian, todd.willian@wku.edu, (270) 745-5969

1. Identification of course

- 1.1 Course prefix: AGRO 409G
- 1.2 Course title: Weed Science

2. Proposed change(s):

- 2.1 course number: AGRO 509
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description: Identification of prominent weed species; relationship of weeds to crop production problems; control measures, both physical and chemical, are presented.
- 2.8 other:

3. Rationale for revision of course: AGRO 409G is one of several 400G-level courses the Department of Agriculture proposes to change to 500-level status. Since course content is taught at the 500-level, reflection of that level in the course number is warranted.

4. Term of implementation: Winter 2018

5. Dates of committee approvals:

Department of Agriculture	February 2, 2017
OCSE Graduate Curriculum Committee	April 12, 2017
Professional Education Council (if applicable)	NA
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Course
(Action)**

Date: February 1, 2017

College, Department: Ogden College of Science and Engineering, Department of Agriculture

Contact Person: Todd Willian, todd.willian@wku.edu, (270) 745-5969

1. Identification of course

- 1.1 Course prefix (subject area) and number: AGRO 410G
- 1.2 Course title: Weed Science Laboratory

2. Proposed change(s):

- 2.1 course number: AGRO 510
- 2.2 course title:
- 2.3 credit hours:
- 2.4 grade type:
- 2.5 prerequisites:
- 2.6 corequisites:
- 2.7 course description: A laboratory course correlated with AGRO 509.
- 2.8 other:

3. Rationale for revision of course: AGRO 410G is one of several 400G-level courses the Department of Agriculture proposes to change to 500-level status. Since course content is taught at the 500-level, reflection of that level in the course number is warranted.

4. Term of implementation: Winter 2018

5. Dates of committee approvals:

Department of Agriculture	February 2, 2017
OCSE Graduate Curriculum Committee	April 12, 2017
Professional Education Council (if applicable)	NA
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

**Course revision proposals require a Course Inventory Form be submitted by the College Dean's office to the Office of the Registrar.*

**Revise a Program
(Action)**

Date: 3/30/2017

College: OCSE

Department: Agriculture

Contact Person: Fred DeGraves, fred.degraves@wku.edu, 614-477-1430

1. Identification of program:

1.12 Reference number: 052

1.13 Program title: Master of Science in Agriculture

2. Proposed change(s):

2.1 title:

2.2 admission criteria:

2.3 curriculum:

2.4 other:

3. Detailed program description:

Existing Program	Revised Program
<p>In addition to Graduate School admissions requirements, applicants should have an undergraduate major or area of concentration in agriculture or a related science. Non-agriculture undergraduate degree holders may be required to complete pertinent undergraduate courses in agriculture, as prescribed by the departmental graduate committee.</p>	<p>In addition to Graduate School requirements, the Department of Agriculture desires the following:</p> <ul style="list-style-type: none"> • Bachelor's degree in Agriculture or a related science¹ • GPA ≥ 2.75 (on a 4.0 scale) • GRE general scores for quantitative, verbal, and analytical writing² • Three letters of reference • A resume or curriculum vitae • A cover letter, in which the applicant specifies the program to which they are applying, if the program will be thesis or non-thesis, academic interests, relevant experiences, and a graduate faculty member in the WKU Department of

	<p style="text-align: center;">Agriculture that has agreed to serve as the graduate advisor^{3,4}</p> <p>¹ Exceptions to an Agriculture degree may be made for non-agriculture undergraduate degree holders. However, additional course work may be required, which will be determined by the department graduate committee and/or the student's thesis committee.</p> <p>² Although there are no formal minimum GRE scores required, admission into the program is competitive and GRE scores will be considered during the selection process.</p> <p>³ Program and faculty information may be found at: http://www.wku.edu/agriculture/. Students should contact the Agriculture graduate program coordinator for guidance in the research advisor selection process. The graduate program coordinator will review student research interests and suggest possible research advisors.</p> <p>⁴ Applications should be received by March 15th for priority consideration.</p>
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4. **Rationale:** Currently the WKU Graduate Catalog does not include GRE, letters of reference, resume/CV, or cover letter requirements for the Agriculture MS program. The proposed changes will improve transparency of the application process.
5. **Proposed term for implementation:** Spring 2018
6. **Dates of committee approvals:**

Department	_____
	March 30, 2017
College Curriculum Committee	_____
	April 12, 2017
Professional Education Council (if applicable)	_____
Graduate Council Curriculum Committee	_____
	May 1, 2017
Graduate Council	_____
	05/11/2017
University Senate	_____

Graduate Certificate Program in Biology - Create New (Action)

Date: 2/20/2017

College: Ogden College of Science and Engineering

Department: Biology

Contact Person: Michael Smith, michael.smith1@wku.edu, 270-745-2405

1. Identification of program:

1.1 Program title: Graduate Certificate in Biology

1.2 Required hours: 15

1.3 Program Description: This program is designed for individuals pursuing a career in biology who need up to 15 hours of graduate biology courses for professional training or accreditation. This certificate will equip its graduates with supplemental and enhanced knowledge and skills in biology to broaden their career opportunities.

1.4 Classification of Instructional Program Code (CIP): 26

2. Learning outcomes of the proposed certificate program: The objective of the certificate program is to provide students with in depth understanding of specialty fields in biology with enhanced credentials to enable them to gain employment or further training in biology. Specifically, students completing this certificate program should be able to clearly explain scientific methods used in particular sub-disciplines in the biological sciences, discuss advanced biological principles in scientific and applied frameworks, and how biology fits into a social context.

3. Rationale:

3.1 Reason for developing the proposed certificate program: In Kentucky and elsewhere, some secondary education teachers require at least 15 h of graduate credit in their subject in order to renew their certification or are allowed to teach that subject area, but a master's degree is not required. In addition, this program should provide training for students desiring jobs in rapidly expanding job markets such as biotechnology. This program will be a good recruitment tool for students needing additional graduate credits, but are not yet ready for master's level graduate degree program. Students who have completed the certificate can apply the courses taken to a Master of Science degree in Biology if they are admitted into that program at a later date.

3.2 Relationship of the proposed certificate program to other programs now offered by the department: Courses available include those for other WKU Biology graduate programs. Since 30 h are required for both the Master of Science and Master of Arts in Education degrees in Biology at WKU, the certificate represents the half-way point for completion of a master's degree. The Biology Education for Teacher Leaders, Master of Arts in Education program requires 18 hours of coursework in Biology.

3.3 Relationship of the proposed certificate program to certificate programs offered in other departments: There are no other biology-specific certificate programs, although WKU does have some health-related certificate programs (e.g., Aging Studies, Emergency Nurse Practitioner, Family Nurse Practitioner, Worksite Health).

3.4 Projected enrollment in the proposed certificate program: 5/year

- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions): Two of WKU's benchmark institutions have similar certificate programs (Ball State University and Florida Atlantic University). While the University of Kentucky has much more narrow graduate certificate programs that are biologically-relevant (e.g., Anatomical Sciences, Biostatistics, Stream and Watershed Science, Physiology Teaching), no other Kentucky university offers a general graduate certificate in Biology.
- 3.6 Relationship of the proposed certificate program to the university mission and objectives: The certificate program will enhance student opportunities for employment in biology allowing them to be productive, engaged, and socially responsible citizen-leaders.
- 4. Admission Criteria:** Admission into the WKU Graduate School, the minimum requirements of which is an earned bachelor's degree (or equivalent) and a 2.75 GPA (out of a 4.0 scale).
- 5. Curriculum:** The certificate requires 15 semester hours of graduate biology credit (BIOL 400G or higher). The core curriculum for this certificate program must include BIOL 500 Introduction to Graduate Studies and Research in Biology, one of the core Biodiversity courses (BIOL 532 Behavioral Ecology, BIOL 534 Environmental Science Concepts, BIOL 545 Animal Communication), and one of the core Biotechnology courses (BIOL 411G Cell Biology, BIOL 446G Biochemistry, BIOL 495G Molecular Genetics). The remaining 6 credit hours can be selected from these core courses or any other Biology graduate course except for BIOL 516 Investigations/Biology, BIOL 598 Graduate Seminar, and BIOL 599 Thesis Research/Writing. BIOL 500 (Introduction to Graduate Studies and Research in Biology) introduces graduate students to research techniques and experimental design, as well as studying current biological literature and methods of scientific writing.
- 6. Budget implications:** The certificate program will not put any additional costs or burdens upon the Biology Department or the university, since the courses being offered are already offered as part of the Master of Science degree in Biology.
- 7. Term of implementation:** Winter 2018
- 8. Dates of committee approvals:**

Department	<u>3/10/2017</u>
College Curriculum Committee	<u>April 12, 2017</u>
Graduate Council Curriculum Committee	<u>5/1/2017</u>
Office of Academic Affairs (if ≥18 hour program)	<u>NA</u>
Professional Education Council (if applicable)	<u>NA</u>
Graduate Council	<u>05/11/2017</u>
University Senate	<u></u>
Board of Regents	<u></u>

**Revise a Program
(Action)**

Date: 3/28/17

College: Ogden College of Science and Engineering

Department: Department of Biology

Contact Person: Michael Smith, michael.smith1@wku.edu, 270-745-2405

1. Identification of program:

1.1 Reference number: 0442

1.2 Program title: Biology Education for Teacher Leaders, Master of Arts in Education

2. Proposed change(s):

2.1 title:

2.2 admission criteria:

2.3 curriculum:

2.4 other:

3. Detailed program description:

Existing Program	Revised Program
<p>Program Requirements (30-34 hours)</p> <p>During the first course in the program, TCHL 500, students will complete an assessment process that will be used in determining which TCHL core courses they must take (see Important Note below). All students must either complete TCHL 540, TCHL 544, TCHL 548, TCHL 550, TCHL 554, and TCHL 558 or pass proficiency evaluations for these courses. TCHL 500, TCHL 530, and TCHL 560 are required for all students, and there are no proficiency evaluations that may be substituted for these courses. An Action Research Project for Teacher Leaders focusing on a classroom, school, or district issue is the capstone for the completion of the program.</p> <p>Professional Education Core:</p>	<p>Program Requirements (30-34 hours)</p> <p>During the first course in the program, TCHL 500, students will complete an assessment process that will be used in determining which TCHL core courses they must take (see Important Note below). All students must either complete TCHL 545540, TCHL 544, TCHL 548, TCHL 550, TCHL 554, and TCHL 558 or pass proficiency evaluations for these courses. TCHL 500, TCHL 530, TCHL 559 and TCHL 560 are required for all students, and there are no proficiency evaluations that may be substituted for these courses. An Action Research Project for Teacher Leaders focusing on a classroom, school, or district issue is the capstone for the completion of the program.</p> <p>Professional Education Core:</p>

Code	Title	Hours	Code	Title	Hours
TCHL 500	Foundations of Teacher Leadership ¹	3	TCHL 500	Foundations of Teacher Leadership ¹	3
TCHL 530	Curriculum Development	3	TCHL 530	Curriculum Development	3
TCHL 540	Classroom Instruction: Instructional Strategies	1	TCHL 540	Classroom Instruction: Instructional Strategies	1
TCHL 544	Equitable School and Community Partnerships	1	TCHL 544	Equitable School and Community Partnerships	1
TCHL 548	Classroom Instruction: Managing the Learning Environment	1	TCHL 548	Classroom Instruction: Managing the Learning Environment	1
TCHL 550	Student Assessment I: Fundamentals of Student Assessment	1	TCHL 550	Classroom Instructional Strategies and Management	3
TCHL 554	Student Assessment II: Standardized Testing	1	TCHL 554	Student Assessment I: Fundamentals of Student Assessment	1
TCHL 558	Student Assessment III: Classroom Tests and Instruments	2	TCHL 558	Student Assessment II: Standardized Testing	1
TCHL 560	Action Research Capstone for Teacher Leaders	3	TCHL 560	Student Assessment III: Classroom Tests and Instruments	2
Content Major:			TCHL 555	School and Classroom Assessment	3
Select 18 hours of advisor-approved BIOL courses numbered 400G or higher that would count for the M.S. in Biology program			TCHL 559	Action Research Design	1
			TCHL 560	Action Research Capstone for Teacher Leaders	3
Total Hours		30-34	Content Major:		
¹ While enrolled in TCHL 500, master's candidates will use several documents, including their KTIP assessments or in-kind examples, dispositions self-surveys,			Select 18 hours of advisor-approved BIOL courses numbered 400G or		

<p>referrals from school personnel, and their respective School Improvement Plan, to develop with their respective program advisors individualized programs of study of 30-34 hours related to Kentucky Teacher Standards and professional goals. Each student's program of study will include some or all of the TCHL courses, at least one content course specific to their initial teaching certification areas, plus additional education-related or content courses.</p>	<p>higher that would count for the M.S. in Biology program</p> <p style="text-align: right;">30-34</p> <p>Total Hours</p> <p>¹ While enrolled in TCHL 500, master's candidates will use several documents, including their KTIP assessments or in-kind examples, dispositions self-surveys, referrals from school personnel, and their respective School Improvement Plan, to develop with their respective program advisors individualized programs of study of 30-34 hours related to Kentucky Teacher Standards and professional goals. Each student's program of study will include some or all of the TCHL courses, at least one content course specific to their initial teaching certification areas, plus additional education-related or content courses.</p>
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4. Rationale: The curriculum contract for the Master of Arts in Education for Teacher Leaders-Biology Major/Secondary Education Minor, has been changed. The Teacher Leadership program is no longer offering Classroom Instruction as three separate 1 credit hour courses (TCHL 540, 544, and 548) but as one 3 credit hour course (TCHL 545). Similarly, three separate 1 credit hour Student Assessment courses are no longer offered (TCHL 550, 554, 558) but a single three credit hour course is offered (TCHL 555). In addition, TCHL 559 (Action Research Design) is now required in all MAE programs. This revision brings the Biology MAE in alignment with the other MAE programs.

5. Proposed term for implementation: Fall 2017

6. Dates of committee approvals:

Department	04/07/2017
College Curriculum Committee	April 12, 2017
Professional Education Council (if applicable)	NA
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	

Revise a Program (Action)

Date: 3/31/2017

College: Ogden

Department: Chemistry

Contact Person: Eric Conte, eric.conte@wku.edu, 745-6019

1. Identification of program:

1.1 Reference number: 059

1.2 Program title: Chemistry, Master of Science

2. Proposed change(s):

2.1 title:

2.2 admission criteria:

2.3 curriculum:

2.4 other:

3. Detailed program description:

Existing Program	Revised Program
<p>In addition to Graduate School requirements, candidates for admission to this program must submit evidence of satisfactory completion of undergraduate curricula in chemistry.</p>	<p>In addition to Graduate School requirements, the Department of Chemistry desires the following:</p> <ul style="list-style-type: none"> • Bachelor's degree in chemistry or equivalent including supporting courses in mathematics ¹ • GPA in Chemistry courses ≥ 3.0 (on a 4.0 scale) • GRE general scores (Q+V) and Analytical Writing ^{2,3} <p>Please refer to the admission section of this catalog for Graduate School admission requirements.</p> <p>¹ Exceptions to possessing a chemistry degree may be made for students with undergraduate degrees in chemistry-related areas (e.g. chemical engineering, pharmacy, pharmaceutical science, forensic chemistry). However, additional courses may be required and will be determined by the graduate program coordinator and/or</p>

	<p>the student's thesis committee.</p> <p>² Scores from MCAT, PCAT, or DAT may be substituted for GRE scores if they reflect percentile ranks similar to those of the desired GRE scores.</p> <p>³ Although there are no formal minimum GRE scores, admission is competitive. The average GRE scores of recently admitted students are approximately [145](V) and [150](Q). Applications should be received by March 15th for priority consideration.</p>
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4. Rationale:

Currently the WKU Graduate Catalog does not include a GRE requirement for Chemistry MS program. Also, we wish to provide more details of our desires for applicants of our graduate program.

5. Proposed term for implementation: Spring 2018

6. Dates of committee approvals:

Department	3/31/2017
College Curriculum Committee	April 12, 2017
Professional Education Council (if applicable)	_____
Graduate Council Curriculum Committee	5/1/2017
Graduate Council	05/11/2017
University Senate	_____

**Certificate Program - Create New
(Action)**

Date: February 20, 2017

College: CHHS

Department: Public Health

Contact Person: Marilyn Gardner, marilyn.gardner@wku.edu, 270-745-5864

1. Identification of program:

1.1 **Program title:** Health Education

1.2 **Required hours:** 12

1.3 **Program Description:** The Health Education Certificate imparts the knowledge and skills necessary for health educators, and is aligned with the seven areas of responsibility outlined by the National Commission for Health Education Credentialing (NCHEC) for Certified Health Education Specialists (CHES).

2. Learning outcomes of the proposed certificate program:

Upon completing the certificate, students will be able to:

- Assess individual and community needs for health education
- Plan effective health education strategies, interventions, and programs
- Implement health education strategies, interventions, and programs
- Design evaluation plan for health education interventions and programs
- Administer health education strategies, interventions, and programs
- Serve as a health education resource person
- Communicate and advocate for health and health education

3. Rationale:

3.1 **Reason for developing the proposed certificate program:** The reasons for developing this proposed health education certificate program are three-fold. First, the proposed certificate program supports workforce development inasmuch as it is designed for community and public health practitioners who want advanced instruction in health education and who need academic preparation for the Certified Health Education Specialist (CHES) examination. Second, this certificate serves the needs of MPH students who formerly sought the health education concentration. Third, health education is an area of study that is beneficial to many disciplines and complements several existing degree programs. We hope to attract students from these disciplines into the MPH program.

3.2 **Relationship of the proposed certificate program to other programs now offered by the department:** The proposed certificate program complements the existing MPH programs. Two of the courses are nested within the MPH core curriculum, and the other two can be used as electives.

3.3 **Relationship of the proposed certificate program to certificate programs offered in other departments:** There are no other certificate programs in other departments related to health education.

- 3.4 Projected enrollment in the proposed certificate program:** five to ten students per academic year.
- 3.5 Similar certificate programs offered elsewhere in Kentucky and in other states (including programs at benchmark institutions):** There are no certificates in health education offered elsewhere in Kentucky. The University of Alabama at Birmingham has a 15 hour online health education and promotion certificate, and two of our benchmarks – Ball State and University of North Carolina at Charlotte – offer certificates in community health.
- 3.6 Relationship of the proposed certificate program to the university mission and objectives:** This proposed certificate program supports the university mission of lifelong learning. It also supports objectives 3.1.3, increase by 20%, the credit hours completed through distance learning, as it is an online certificate program. It also supports objective 1.5.1, increase the total number of degrees by 17%, insomuch as it nests within the MPH program, and thus may encourage students to seek the MPH degree.
- 4. Admission Criteria:** Admission to the Graduate School.
- 5. Curriculum:**
- PH 587, Health Behavior (3 credit hours)
- PH 575 Program Planning in Public Health Practice (3 credit hours)
- PH 576 Education and Communication Techniques in Public Health Education (3 credit hours)
- PH 548 Community Health Organization (3 credit hours).
- 6. Budget implications:** None; the courses in this proposed certificate program are existing courses that are offered at least once annually by the department.
- 7. Term of implementation:** Winter 2018
- 8. Dates of committee approvals:**
- | | |
|---------------------------------------|-------------------|
| Department | <u>3/1/2017</u> |
| College Curriculum Committee | <u>4/10/2017</u> |
| Graduate Council Curriculum Committee | <u>5/1/2017</u> |
| Graduate Council | <u>05/11/2017</u> |
| University Senate | _____ |
| Board of Regents | _____ |

GCC Members Present: (members absent in yellow)

All absent members presented their comments to the Chair, GCCC prior to the May 1st, 2017 meeting.

- Dr. Kirk Atkinson, Chair (GFCB) - Email: kirk.atkinson@wku.edu
- Dr. Marge Maxwell, (CEBS) - Email: marge.maxwell@wku.edu
- Dr. Andrew Rosa, (UC) - Email: andrew.rosa@wku.edu
- Dr. Chris Groves, (OCSE) - Email: chris.groves@wku.edu (served as Chair in Atkinson's absence)
- Dr. Dorothea Browder (PCAL) - Email: dorothea.browder@wku.edu
- Dr. Amy Cappiccie, (CHHS) - Email: amy.cappiccie@wku.edu

Please remind all college representatives to use the provided WORD DOCX format forms on the web site (www.wku.edu/gcc) and not old forms from previous proposals or PDF's.

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Attachment 2



Graduate Council

Graduate Student Research

Report—April 11, 2017

WAB 239

2:30 p.m.

- I. New Business - Reviews
 - A. 2:30 pm
Zexuan Wang, Geography & Geology (Dr. M. Royhan Gani)
Investigating Seismic Geomorphology and Formative Mechanisms of Deep-Marine Sediment Waves in the Northern Gulf of Mexico.
Requesting \$2,000.00
Awarded: \$2,000
 - B. 2:45 pm
Tanner Smith, Communication Sciences & Disorders (Dr. Janice Carter Smith)
The Dixit Method
Requesting \$1,780.28
Awarded: \$1,750.29
 - C. 3:00 pm
McKenzie Ward, Communication Sciences & Disorders (Dr. Janice Carter Smith)
Parent Implemented Adapted Dialogic Reading for Preschoolers with Autism
Requesting \$1335.89
Awarded: \$1525.89
 - D. 3:15 pm
Alisha Mays, Sociology (Dr. Nicole Breazeale)
Self-Evaluations and Volleyball Serve Performance
Requesting \$2,000.00
Awarded \$2,000.00
 - E. 3:30 pm
Selahaddin, Gumus, Chemistry (Dr. Donald Slocum)
Substituent effects on Regiospecific p-bromination of a wide variety of aromatic compounds
Requesting \$2,000.00
Awarded \$2,000.00

- F. 3:45 pm
 Julie Pride, Music (Dr. Zachary Lopes)
The Pianist as Partner in the Vocal Works of Roger Quilter
 Requesting \$2,000.00
Awarded \$2,000.00
- G. 4:00 pm
 Alyssa Dispennette, Kinesiology, Recreation & Sport (Dr. Jason Crandall)
The Effects of Bingocize® on fall risk, health knowledge, and quality of life in community-dwelling older adults
 Requesting \$1,731.00
Awarded: \$1,731.00
- H. 4:15 pm
 Dovletgeldi Seyitliyev, Physics & Astronomy (Dr. Ali Oguz Er)
Hydrogen generation from coal powders in water
 Requesting \$1,500.00
Awarded: \$1,500.00
- I. 4:30 pm
 Saidjafarzoda Ilhom, Physics & Astronomy (Dr. Ali Oguz Er)
Large area deposition of MoS₂ on Sapphire (Al₂O₃) c-plane (0001) by pulsed laser deposition with in situ electron diffraction monitoring
 Requesting \$1,490.20
Awarded: \$1,490.20

II. New Business – Proposed process change

1. Require an abstract in the application and a photo to be taken at the review meeting.

Rationale

Many of our graduate students are engaged in fascinating projects. In an effort to raise the profile of the funded projects, we would like to create a public report that briefly describes the research and the student. The report would list all funded projects with a brief abstract and a photo of the student applicant. As part of the application, each student would be asked to provide a project abstract that would be readable by the general public. Also, the review committee would take a photo when the student applicant meets with them. The student applicant may also provide a photo for consideration as a substitute photo. The Graduate Student Research committee would assemble the report and share it with the Graduate Council.

Attachment 3
GRADUATE FACULTY REPORT – May 2017

Regular

<u>Name</u>	<u>Department</u>
Link, Donna	Educational Admin., Leadership & Research
Sikora, Doris	Family & Consumer Sciences
Wilson, Terri	School of Teacher Education

Associate

<u>Name</u>	<u>Department</u>
Gross, Thomas	Psychology

Temporary

<u>Name</u>	<u>Department</u>
Simmons, Jane	Family and Consumer Sciences
Youngbluth, Stephen	Communication

Adjunct

<u>Name</u>	<u>Department</u>
Kerr, Linda	Communication Sciences & Disorders
Kirby, Denisha	Communication Sciences & Disorders
Frank, Danna	Communication Sciences & Disorders
Broyles, Rebecca	Communication Sciences & Disorders
Harley, Grant L.	Geography & Geology
Laffin, Nicole C.	Communication Sciences & Disorders
Roden-Carrier, Leigh Ann	Communication Sciences & Disorders
Barr, Stephanie	Communication Sciences & Disorders
Wilson, Tracy	Communication Sciences & Disorders
Dixon, P. Grady	Geography & Geology
Younglove, Jeffrey A.	Kinesiology, Recreation & Sport
Summers, Lindsay	Communication Sciences & Disorders