

#### **Graduate Council**

## **MEMORANDUM**

To:

Dr. Jerome Gilbert - President

From:

Dr. Tracy Christofero - Chair, Graduate Council

Date:

December 6, 2016

Subject:

Approval of Graduate Council Minutes: December 2, 2016

Attached are the minutes of the recent Graduate Council meeting for your review. Approval of these minutes will also serve as approval of curricular motions, graduate faculty status, etc.

Please advise if you have any comments/concerns/questions.

Minutes approved.

Dr. Jerome Gilbert

President, Marshall University

Date

Note to President's secretary:

Please return the signed original to Tracy Christofero with .pdf copies e-mailed to:

Dr. Tracy Christofero, Chair, Graduate Council, MUGC 328, South Charleston

Dr. David Pittenger, Dean, Graduate College, Old Main, Huntington campus

Dr. Cam Brammer, Secretary, Graduate Council, SH 248, Huntington campus

Dr. Tammy Johnson, Admissions, Old Main 102, Huntington campus

Mr. Tim Melvin, Office of Academic Affairs, Old Main, Huntington campus

Ms. Sandee Lloyd, Graduate Dean's Office, Old Main, Huntington campus

Ms. Crystal Stewart, Information Technology, Drinko 313A, Huntington campus

Ms. Sonja Cantrell, Registrar's Office, Old Main, Huntington campus

## MU Graduate Council Meeting Minutes— December 2, 2016 South Charleston campus – Thomas Boardroom

#### Meeting began at 1:00 p.m.

Members Present: Allen, Anderson, Biros, Brammer, Christofero, De Bruin, Heaton,

Howard, Lanham, Larsen, Lawrence, Muellerleiile, Sollars, Vauth

Members Absent: Mehta, Ross

Ex-Officio Members Present: Pittenger, Eagle Ex-Officio Members Absent: Maher, Ormiston Visitors: Bobbie Nichols. Dennis Anderson

#### Agenda

Christofero	Announcements
Brammer	Approval of previous meeting Minutes (Attachment 1)
Christofero	Graduate faculty status candidates (Attachment 2)
Brammer	Academic Planning, Standards, & Policies (Attachment 3)
Heaton	Curriculum Committee (Attachment 4)
Anderson	Program Review
Lanham	Credentialing
Christofero	Miscellaneous Business of the Council

#### Please reserve these meeting dates:

- January 27, 2016 Huntington Drinko 349 NOTE THE ROOM CHANGE
- February 24, 2017 South Charleston Thomas Boardroom
- March 31, 2017 Huntington John Spotts
- April 28, 2017 South Charleston Thomas Boardroom

Please remind your college and curriculum committee that beginning next month, requests are due by the first of the month for inclusion on that month's agenda.

Chair Christofero called the meeting to order at 1:00 PM.

The minutes of the October 28, 2016 GC meeting were APPROVED

**GRADUATE FACULTY STATUS candidates (Attachment 2) APPROVED** 

ACADEMIC PLANNING, STANDARDS, & POLICY COMMITTEE
(Attachment 3) Brammer presented requests. APPROVED with minor edits.

<u>CURRICULUM COMMITTEE</u> - See <u>Attachment 4</u> for individual course approvals and motion regarding courses presented by COEPD.

**PROGRAM REVIEW COMMITTEE** - Anderson requested that all Program Reviews be sent to him by Dec. 9, 2016.

<u>CREDENTIALING COMMITTEE</u> - Lanham reported that the committee is evaluating policy AA 20 for revision.

Motion to move to Executive Session, 2<sup>nd</sup>, **Approved** 

Motion to return to regular session, 2<sup>nd</sup>, **Approved.** 

Motion to approve Dean Zatar for Graduate Faculty Status, 2<sup>nd</sup>, Approved.

The meeting adjourned at 2:35 PM.

Submitted by Brammer 12-6-2016; Review/approved by Christofero 12-6-2016

#### Attachment 1

#### MU Graduate Council *PREVIOUS* Meeting Minutes Huntington Campus – John Spotts Room

**Members Present:** Allen, Anderson, Biros, Brammer, Christofero, De Bruin, Heaton, Howard, Lanham, Larsen, Lassiter, Mehta, Ross, Sollars, Trzyna (for Muellerleile)

Members Absent: Lawrence, Muellerleile, Vauth

Ex-Officio Members Absent: Pittenger, Eagle, Maher, Ormiston

Visitors: Tarter, Agesa, Welch, Landry

Agenda

Christofero	Announcements
Brammer	Approval of previous meeting Minutes (Attachment 1)
Christofero	Graduate faculty status candidates (Attachment 2)
Brammer	Academic Planning, Standards, & Policies (Attachment 3)
Heaton	Curriculum Committee (Attachment 4)
Anderson & Reynolds	Program Review
Lanham	Credentialing
Christofero	Miscellaneous Business of the Council

#### Please reserve these meeting dates:

- \* December 2, 2016 South Charleston Thomas Boardroom
- January 27, 2016 Huntington TBD
- February 24, 2017 South Charleston Thomas Boardroom
- \* March 31, 2017 Huntington John Spotts
- April 28, 2017 South Charleston Thomas Boardroom

Please remind your college and curriculum committee that beginning in January, requests are due by the first of the month for inclusion on that month's agenda.

Chair Christofero called the meeting to order at 1:00 PM.

The minutes of the September 30, 2016 GC meeting were **APPROVED** 

#### **GRADUATE FACULTY STATUS REQUESTS - APPROVED**

## ACADEMIC PLANNING, STANDARDS, & POLICY COMMITTEE

Brammer presented the items in Attachment 3. APPROVED w/ minor edits

<sup>\*</sup> To assure committee members also enjoy their Thanksgiving and Spring breaks, curriculum requests are due three weeks before the posted meeting date rather than the normal two weeks. Please be sure your dean, faculty and college curriculum committee are aware of this.

#### **CURRICULUM COMMITTEE**

Heaton presented the items in Attachment 4. APPROVED w/ minor edits

#### PROGRAM REVIEW COMMITTEE

Anderson introduced Dr. Reynolds who presented instructions for reviewing programs this year. The schedule is as follows:

- Graduate Council members' reviews due by January Graduate Council meeting
- College revisions due back to Graduate Council by mid-January
- Programs to be sent reports by 12/9/2016 for revisions, if necessary
- Revised reports due back to Council by 12/16/2016
- Programs to send changes to Anderson

Programs under review and Reviewer Assignments:

Programs Under Review and Faculty Assignments								
Program	College	Faculty	Faculty					
MS Adult and Technical Education	COEPD	Biros	Brammer					
MA in Counseling	COEPD	Debruin	Mehta					
MA in Psychology	COLA	Lanham	Larson					
Psychology Doctorate (PsyD)	COLA	Sollars	Heaton					
EdS in School Psychology	COLA	Howard	Allen					
MA in Mathematics	cos	Howard	Allen					
MS in Physical and Applied Sciences	cos	Sollars	Heaton					
MS in Chemistry	cos	Lanham	Larson					
MA in Elementary Education	COEPD	Anderson	Vauth					
MA in Early Childhood Education	COEPD	Anderson	Vauth					
MA in Secondary Education	COEPD	Anderson	Christofero					
Educational Specialist (EdS)	COEPD	Biros	Brammer					
MA in English (deferred from 2015-2016)	COLA	Debruin	Mehta					

Note: Muellerleile not assigned due to personal emergency

#### **CREDENTIALING COMMITTEE**

Lanham reported that the Committee reviewed the credential files of **COLA** and it is **complete.** COE and COS are scheduled for Spring 2017.

The meeting adjourned at 2:05 PM

# Attachment 2 Graduate Faculty Status Requests

Туре	Faculty Member	College/ School	Department/Division	Graduate Faculty Level	Term Start	Term Expires
Delete	Bartolovic, Frederick	CAM	Art and Design	Graduate	09/22/2011	09/22/2016
Delete	Bookwalter, Robert	COLA	Communication Studies	Associate	10/31/10	10/31/13
Delete	Donovan, Patrick	COLA	Geography	Graduate	10/07/11	10/07/16
Delete	Lopez, Carlos	COLA	Modern Languages	Graduate	12/01/12	12/01/17
Delete	Maslowski, Robert	COLA	Humanities	Associate	01/09/12	01/09/15
Delete	O'Keefe, Stephen	COLA	Psychology	Graduate	09/30/10	09/30/15
Delete	Rushton, Catherine	SOM	Forensic Science	Associate	10/31/12	10/31/15
Delete	Twietmeyer, Gregg	COHP	SOK	Graduate	03/10/14	03/10/19
Delete	White, Benjamin	COLA	English	Graduate	09/30/10	09/30/15
Edit	Amerikaner, Martin	COLA	Psychology	Graduate	08/22/2016	12/10/2021
Edit	Young, John	COLA	English	Graduate	08/22/2016	12/10/202

## Attachment 3 **Academic Planning Program/Degree Requests**

COLA APPROVED

Department: Political Science

Name of Certificate: Non-Profit Management

Credit Hours: 18 hours Type of Change: Addition

Rationale: Meet the needs of in service professionals in any location, Increase the number of students in classes currently being offered in both the MPA program and the College of Business MBA program. Additionally, a certificate in Non-Profit Management will meet the needs of mid-level administrators for continuing education purposes. This certificate consists of already existing classes, which we hope will lead students into either the MBA or the MPA. In addition, it will be available completely online, with every class offered at least once per academic year depending on enrollment. This certificate will appeal to a greater range of people.

Effective Date: Fall 2017

Department: Geography Major or Degree: MA and MS

Type of Change: (addition, deletion, change); Changes

Rationale: The changes requested allow for the MA and MS Programs to be in alignment in the number of hours needed. GEO679 and GEO681 will be used for thesis hours and will provide quality control; raise admission standards for MS students; omit language referencing the old GRE scoring system; preference for departmental statistics course; change language about 600 level courses to reflect Graduate college requirements; change the language regarding minimum number of hours that must be GEO, will still allow 2 courses from outside when necessary to avoid delays in student graduation or where appropriate for a

student's interests or research; finally change list of courses based on current catalog update.

Effective Date: Fall 2016

Department: Geography

**APPROVED** Name of Certificate: Geospatial Information Science Certificate - Advanced

Credit Hours: 12

Type of Change: (addition, deletion, change): see rationale

Rationale: Adjust the list of choices for the required applications/research methods/internship: Added a new course from Natural Resources and Recreation Management; deleted a course that hasn't been offered in years.

Adjust the list of GIScience electives: Added new GIS courses from Geography, Natural Resources and Recreation Management, and Physical Science.

Adjust the members of the GIScience Curriculum Committee: Faculty and staff are subject to change. Add information about the Administrative Home of the program: Directs students, faculty and staff to the director of the program for more information.

Effective Date: Spring 17

Department: Geography

**APPROVED** 

**APPROVED** 

Name of Certificate: Geospatial Information Science Certificate-Basic

Type of Change: (addition, deletion, change): see Rationale

Credit Hours: 12

Rationale: Delete the requirement that students take courses from at least two departments: Because of the limited number of departments that offer courses and total number of courses in the program, some students have difficulty enrolling in courses in multiple departments. In addition, in the future, it might be possible for a student to get the certificate using online courses, which might not be available from at least two departments.

Adjust the list of GIScience electives: Added new GIS courses from Geography, Natural Resources and Recreation Management, and Physical Science.

Adjust the members of the GIScience Curriculum Committee: Faculty and staff are subject to change.

Add information about the Administrative Home of the program: Directs students, faculty and staff to the director of the program for more information.

Effective Date: Spring 2017

#### COB

Department: Management Major or Degree: HCA

Type of Change: Non-curricular change

Rationale: Due to new government policies that do not allow international

students who are provisionally admitted to get an I-

20 the LCOB is updating its admission requirements to allow students who need additional foundations cour

ses to be fully admitted to HCA program.

Effective Date: Fall 2016

Department: Management Major or Degree: HRM

Type of Change: Non-Curricular

Rationale: Due to new government policies that do not allow international

students who are provisionally admitted to get an I-

20 the LCOB is updating its admission requirements to allow students who need additional foundations cour

ses to be fully admitted to HRM program.

Effective Date: Fall 2016

Department: Accounting

Major or Degree: MS in Accounting Type of Change: Non-Curricular

Rationale: Due to new government policies that do not allow international

students who are provisionally admitted to get an

i-

20 the LCOB is updating its admission requirements to allow students who need additional foundations cour ses to be fully admitted to MS in Accounting program.

Effective Date: Fall 2016

Department: Management Major or Degree: MBA program Type of Change: Non-curricular

Rationale: Due to new government policies that do not allow international

students who are provisionally admitted to get an I-

20 the LCOB is updating its admission requirements to allow students who need additional foundations cour

ses to be fully admitted to the MBA program.

Effective Date: Fall 2016

#### CITE

Department: The Weisberg Division of Engineering

Major or Degree: MS in Electrical and Computer Engineering (MSEE)

Type of Change: Addition of Program

Rationale: The rationale is based on need for degree in the tristate; employment opportunities for

graduates; and financial gain for college and university.

Effective Date: Fall 2017

APPROVED

## Attachment 4

## **Curriculum Requests**

## College of Education and Professional Development

Course Addition (1)

Department:

Leadership Studies

Course:

LS 706 Strategic Planning in a Global Environment

Description:

This course will examine multiple types of organizations within their external context, analyze how planning is conducted as well as implemented across distance and cultures and evaluated.

Prerequisites: First Term:

None

Spring 2018

Credit Hours:

Course Changes (2)

Change Type:

Title, Description, Content

Department:

Leadership Studies

Old Title:

LS 710 Principles of Leadership

New Title:

LS 710 Theories and Principles of Leadership

Rationale:

The changes reflect an expanded content. The proposed change reflects the Leadership Studies goal of broadening the curriculum thereby expanding the market. With the expected increase in enrollment, the change will support the University's overall enrollment initiative, enhance

graduate education and promote faculty research and development.

Old Descrip:

This course is a study of the characteristics and behaviors of leaders. Emphasis is on the

development of understandings and abilities which will work in different situations.

New Descrip:

This course is a study of the multiple theories and models of leadership and the foundational principles that anchor them. Emphasis is on understanding the qualities of theory in general and of leadership theories in particular, with a specific focus on recognizing the theoretical underpinnings

of various leadership choices.

Change Type:

Title, Description, Content

Department:

Leadership Studies

Old Title:

LS 756 Current Issues in Higher Education

New Title:

LS 756 Current Issues in Organizational Development

Rationale:

The changes reflect an expanded content. The proposed change reflects the Leadership Studies goal of broadening the curriculum thereby expanding the market. With the expected increase in enrollment, the change will support the University's overall enrollment initiative, enhance

graduate education and promote faculty research and development.

Old Descrip:

This course focuses on current and emerging problems of higher education. It deals with both societal and internal factors which impinge on the administration of colleges and universities.

New Descrip:

This course is designed to examine current and emerging issues confronting leaders in multiple

types of organizations.

Motion to have the COEPD and COB faculties have discussion regarding proposed course changes, development and delivery to ensure no conflict occurs. COEPD faculty is to report back to Council for an on-line vote on the above 3 proposals within 2 weeks (Dec. 16), 2nd, Approved.

#### **College of Health Professions**

Course Changes (2)

Change Type:

**Credit Hours** 

Department:

Social Work

Course:

SWK 551 Foundations of Field Practicum

Rationale:

Social Work graduate students are often employed and require flexibility to complete field hours.

Having a range of hours for field education provides a design that is more accommodating to their schedules.

Description:

This is the second of two courses in M.S.W. social work practice in which the purpose continues

to be preparation for student for entry professional social work practice. Within this course, students continue to apply principles that guide professional practice with particular emphasis placed on the micro level practice, working with individuals and families. (PR: SWK 501 and 511)

Credit hours:

from 3 hours to a range of 1-9 hours

Change Type:

Credit Hours

**APPROVED** 

Department:

Social Work

Course:

SWK 653 Advanced Field Practicum

Rationale:

Social Work graduate students are often employed and require flexibility to complete field hours.

Having a range of hours for field education provides a design that is more accommodating to their

schedules.

Description:

Provides concentration year second semester agency-based field instruction and classroom

seminar for advanced learning and practice opportunities relevant to social work. (Concurrent PR:

SWK 633 and SWK 634)

Credit hours:

from 3 hours to a range of 1-9 hours

#### College of Information Technology and Engineering

**ALL 22 APPROVED** 

Course Additions (22)

Department:

**Electrical Engineering** 

Course:

EE 510 Design of Digital Systems

Description:

This course provides fundamental understanding of Digital circuits. Students learn the essentials

of digital circuit operation, design and simulate digital circuits using the techniques of practicing

electrical and computer engineers.

Prerequisites:

None Fall 2017

First Term: Credit Hours:

Department:

**Electrical Engineering** 

Description:

Course: EE 529 Linear Systems and Control

This course provides a rigorous introduction to the analysis and control of linear dynamical systems in time domain. The course introduces the fundamentals of linear spaces and linear

operator theory.

Prerequisites:

None Fall 2017

First Term: **Credit Hours:** 

3

Department:

**Electrical Engineering** 

Course:

EE 530 Cyber-Physical Systems

Description:

This course provides an introduction to modeling and analysis of cyber-physical systems. Several

models of continuous-time systems and discrete-time systems are introduced.

Prerequisites:

None

First Term:

Spring 2018

**Credit Hours:** 

Department:

**Electrical Engineering** 

Course:

EE 535 Power System Protection

Description:

This course covers the power system faults and application of relays for power system protection.

Symmetrical components as applied fault currents. Introduction to digital filtering,

microprocessor, computer simulation for relays.

Prerequisites:

None

First Term:

Fall 2017

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 602 Random Signals and Noise

Description:

This course provides an introduction to the fundamentals of random variables, random signals, and

simulation of random phenomena.

Prerequisites:

None Fall 2017

First Term: Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 606 Electrical Engineering Analysis

Description:

This course covers Laplace transform for boundary-value problem, applications to control theory,

frequency response of ordinary differential equations, linear algebra techniques; eigenvalue

analysis of linear systems and in multivariate optimization.

Prerequisites:

None First Term: Fall 2017

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 607 Advanced Electrical Engineering Analysis

Description:

This course covers complex functions, complex integration, vectors, matrices, functions of

matrices, Cayley-Hamilton theorem, state-space modeling, optimization techniques, least squares

technique, total least squares, and numerical techniques.

Prerequisites:

None First Term: Fall 2017

3

3

Credit Hours:

Department:

**Electrical Engineering** 

Course: Description: EE 608 Research Methods Overview of research methods in engineering. Research theory, design, ethics and practice.

Research plan and proposal. Experimental, numerical and analytical research. Reviewing

literatures, collect and analyze data quantitatively and qualitatively.

Prerequisites:

None First Term: Fall 2017

**Credit Hours:** 

Department:

**Electrical Engineering** 

Course:

EE 611 Digital Integrated Circuits Design

Description:

This course covers the CMOS circuits. Design approaches with emphasis placed on structures full

custom design, MOS device, critical interconnect and gate characteristics. CMOS logic design

from transistor to fabrication.

Prerequisites: First Term:

None Fall 2017

**Credit Hours:** 

Department:

**Electrical Engineering** 

Course:

EE 615 Real-time and Embedded Systems

Description:

This course covers the Designing real-time embedded systems from a hardware and software

perspective. Communications and signal processing systems. Applications to seismic monitoring,

process control, and biomedical systems.

Prerequisites:

None

First Term:

Fall 2017

**Credit Hours:** 

3

Department:

**Electrical Engineering** 

Course:

EE 618 Data and Communication Networks

Description:

This course introduces the underlying concepts behind networking using the Internet and its

protocols as examples.

Prerequisites: First Term:

None Fall 2018

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 624 Wireless Communication

Description:

This course introduces fundamental technologies for wireless communication.

Prerequisites:

None

First Term:

Fall 2018

Credit Hours:

3

Department:

Electrical Engineering EE 630 Robust Control

Course: Description:

Linear systems, norms for signals and systems, stability and performance, uncertainty and

robustness, parameterization of stabilizing controllers, algebraic Riccati equations, H2 control, and

H∞ control.

Prerequisites:

First Term:

None Fall 2018

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 631 Optimal Control

Description:

This course introduces the theory of Optimal Control. It covers evaluation methods for control signals that satisfy some physical constraints and minimize and maximize some performance

measures.

Prerequisites:

First Term:

None Fall 2018

3

Credit Hours:

Department: **Electrical Engineering** 

Course:

EE 636 Power System Operations and Controls

Description:

This course covers modern power systems, operational, control problems, solution techniques. State estimation, contingency analysis, load-frequency control and automatic generation control,

load flow analysis and external equivalents for steady-state operations.

Prerequisites:

First Term:

None Fall 2017

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 638 Nonlinear Systems and Control

Description:

The course provides a rigorous introduction to the analysis and control of nonlinear dynamical

systems in time domain.

Prerequisites:

None

First Term:

Fall 2018

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 639 Distributed Power Generation Systems-Renewable Resources

Description:

This course covers fundamentals of energy and sustainability; power efficiency; hydro, wind,

solar, fuel systems; Converters and controllers for integration of renewable energy sources; Smart

grid, hybrid generation systems.

Prerequisites:

None First Term: Fall 2017

Credit Hours:

3

Department:

**Electrical Engineering** 

Courses: Description: EE 650-653 Special Topics

Prerequisites:

Subject matter to be selected from topics of current interest As specified by instructor and approved by Divisions' Chair

First Term:

Fall 2018

Credit Hours:

1-4

Department:

**Electrical Engineering** 

Course:

EE 685-688 Independent Study

Description:

Independent study in which a student meets regularly with a faculty member to discuss

assignments.

Prerequisites:

As specified by instructor and approved by Divisions' Chair

First Term:

Fall 2017

Credit Hours:

1-4

Department:

**Electrical Engineering** EE 698 Design Project

Course: Description:

The course introduces the principles of product design; specifications, evaluation of design

alternatives, technical reports and oral presentations. Intellectual property, industry standards and

conventions, engineering economics, reliability, safety, engineering ethics.

Prerequisites:

None

First Term:

Fall 2017

Credit Hours:

3

Department:

**Electrical Engineering** 

Course:

EE 699 Master's Thesis

Description:

This represents the course designation for a Master's Degree Research Thesis. Successful completion of a Thesis fulfills the research requirement for the M.S. degree in Electrical

Engineering.

Prerequisites:

EE 604, and advisor approval

First Term:

Fall 2017

Credit Hours:

1-6

Department: Course:

Mechanical Engineering

ME 699 Master Thesis

Description:

This course covers the communication problems encountered in researching and writing a thesis; the scientific writing of a research paper, the speaking and presenting skills, and the organization

skills.

Prerequisites:

None

First Term:

Spring 2017

**Credit Hours:** 

1-6