

# University Graduate Council Minutes

Tuesday, December 13, 2015

Snead Hall, B4178

3 p.m. – 5 p.m

Members present:

Doug Boudinot, Chair

Jill Bettinger

Al Copolillo

Brendan Dwyer

Kimberly Jefferson

Patricia Kinser

Christopher Lemmon

Oonagh Loughran

Simon Okoth

John Ryan

Mark Schaefermeyer

Patricia Slattum

Jennifer Stewart

Paul Thulin

Stephen Vitiello

Ben Wier

Yan Zhang

Guests: Angela Reynolds, Jason Merrick, Alex Tartaglia, Jana McQuaid, Cheryl Magill, James McMillan, Valerie Robnolt, Jennifer Wayne, Kate Grant, Leigh Anne Gravatt

I. The UGC report for November 2016 was approved electronically.

II. Action Items – **ALL APPROVED**

## **College of Humanities and Sciences**

### **Department of Mathematics**

#### **Curriculum Revisions**

- [MS-MAS-AM: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in applied mathematics](#)
- [MS-MAS-MA: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in mathematics](#)

### **Department of Psychology**

#### **Curriculum Revisions**

- [PHD-PSH: Health Psychology, Doctor of Philosophy \(Ph.D.\)](#)
- [PHD-PSL-BD: Clinical Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in behavioral medicine](#)
- [PHD-PSL-CC: Clinical Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in clinical child](#)
- [PHD-PSN: Counseling Psychology, Doctor of Philosophy \(Ph.D.\)](#)
- [PHD-PSY-DC: Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in developmental psychology](#)
- [PHD-PSY-SH: Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in social psychology](#)

### **Department of Statistical Sciences & Operations Research**

#### **Curriculum Revisions**

- [MS-MAS-OR: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in operations research](#)
- [MS-MAS-ST: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in statistics](#)
- [PHD-SMS: Systems Modeling and Analysis, Doctor of Philosophy \(Ph.D.\) \[Statistical Sciences and Operations Research\]](#)

## **School of Allied Health Professions**

### **Department of Gerontology**

#### **Curriculum Revision**

- [MS-GTY: Gerontology, Master of Science \(M.S.\)](#)

### **Department of Hospital & Health Administration**

#### **Curriculum Revision**

- [PHD-HSR: Health Services Organization and Research, Doctor of Philosophy \(Ph.D.\)](#)

## **School of Business**

### **Curriculum Revision**

- [MSCM-SCM: Supply Chain Management, Master of \(M.S.C.M.\)](#)

## **School of Education**

### **Department of Educational Leadership**

#### **Curriculum Revisions**

- [CPM-EDL: Educational Leadership, Certificate in \(Post-master's certificate\)](#)
- [MED-EDL-ADSP: Educational Leadership, Master of Education \(M.Ed.\) with a concentration in administration and supervision](#)
- [MED-EDL-LDST: Educational Leadership, Master of Education \(M.Ed.\) with a concentration in leadership studies](#)

### **Department of Teaching and Learning**

#### **Curriculum Revisions**

- [MED-REA-TADT: Reading, Master of Education \(M.Ed.\) with a concentration in reading with TESOL/adult](#)
- [MED-REA-TK12: Reading, Master of Education \(M.Ed.\) with a concentration in reading with TESOL/K-12](#)

### **Education – Dean's Office**

#### **Curriculum Revisions**

- [PHD-EDP-CCCH: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in curriculum, culture and change](#)
- [PHD-EDP-CESN: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in counselor education and supervision](#)
- [PHD-EDP-EA: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in art education](#)
- [PHD-EDP-EDPY: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in educational psychology](#)
- [PHD-EDP-EI: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in educational leadership](#)
- [PHD-EDP-RH: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in research and evaluation](#)
- [PHD-EDP-SEDL: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in special education and disability leadership](#)
- [PHD-EDP-SPLD: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in sport leadership](#)
- [PHD-EDP-UL: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in urban services leadership](#)

## **School of Engineering**

### **Curriculum Revision**

- [PHD-BME: Biomedical Engineering, Doctor of Philosophy \(Ph.D.\)](#)

## School of Medicine

### Curriculum Revision

- [PHD-HPR: Healthcare Policy and Research, Doctor of Philosophy \(Ph.D.\)](#)

## School of Nursing

### Curriculum Revision

- [DNP-NRP: Nursing Practice, Doctor of \(D.N.P.\)](#)

## School of Pharmacy

### Curriculum Revision

- [DPHA-PHA: Pharmacy, Doctor of \(Pharm.D.\)](#)

## Wilder School

### Curriculum Revision

- [PHD-PPA-PBAD: Public Policy and Administration, Doctor of Philosophy \(Ph.D.\) with a concentration in public administration](#)

### III. Committee Reports

#### A. Committee on Admissions and Academic Standards

- a. No report.

#### B. Committee on Internal Review

- a. No report.

#### C. Committee on Policies and Procedures

The Policies and Procedures Committee voted on the following changes to the Graduation checklist in the Graduate Bulletin:

<http://bulletin.vcu.edu/graduate/study/general-academic-regulations-graduate-students/graduation-requirements/>

**Insert the word “graduate” before “certificate” for clarity. Remove bold from text.**

##### Current

Graduation applications must be submitted by students to their advisers or deans no later than the dates indicated in the university's [academic calendars](#) on the Web. Students should schedule conferences with their advisers well ahead of the deadline and should note that the application requires the approval of the adviser, the department chair or the school director of graduate studies, and the school dean. **Credit is applicable toward only one degree unless students are admitted to a course of study that allows a defined number of shared courses. Graduate credit hours earned toward a VCU certificate may be applied one time to degree requirements for master's or Ph.D. programs. Graduate credit hours earned toward a VCU certificate may be applied toward only one certificate.** The determination of the acceptability of specific courses to be used for both the certificate and the graduate degree will be the responsibility of that masters or Ph.D. program or school.

##### Proposed

Graduation applications must be submitted by students to their advisers or deans no later than the dates indicated in the university's [academic calendars](#) on the Web. Students should schedule conferences with their advisers well ahead of the deadline and should note that the application requires the approval of the adviser, the department chair or the school director of graduate studies, and the school dean. Credit is applicable toward only one degree unless students are admitted to a course of study that allows a defined number of shared courses. Graduate credit hours earned toward a VCU graduate certificate may be applied one time to degree requirements for master's or Ph.D. programs. Graduate credit hours earned toward a VCU graduate certificate may be applied toward only one certificate. The determination of the acceptability of specific courses to be used for both the graduate certificate and the graduate degree will be the responsibility of that masters or Ph.D. program or school.

<http://bulletin.vcu.edu/graduate/study/general-academic-regulations-graduate-students/graduation-requirements/>

**Remove “20% C rule”. 3.0 GPA needed to graduate. Proposal 1: Grades of “C” continue to count towards graduate degree. Proposal 2: Grades of “C” do not count towards graduate degree.**

Current

No more than six credit hours or 20 percent of total credit hours attempted (whichever greater) at C or below level (C, D, F). Individual programs reserve the right to establish more stringent requirements regarding the acceptance of C grades. Specifically, students may not present courses receiving grades less than C for fulfilling degree requirements.

Proposed 1

Students may not present courses receiving grades less than C for fulfilling degree requirements. Individual programs reserve the right to establish more stringent requirements regarding acceptance of C grades.

**\*These proposed revisions to the Graduate Bulletin will be voted on by UGC at the January meeting.**

**D. Committee on Programs and Courses**

**College of Humanities and Sciences**

**Department of Forensic Science**

**New Courses**

- [FRSC 510: Developmental Osteology](#)
- [FRSC 515: Advanced Forensic Anthropology](#)
- [FRSC 580: Applied Stats Forensic Sci](#)
- [FRSC 607: Forensic Taphonomy](#)
- [FRSC 690: Scientific Writing](#)
- [FRSC 792: Research Techniques](#)
- [FRSZ 792: Research Techniques](#)

**Course Revision**

- [FRSC 505: Forensic Entomology](#)

**Department of Mathematics**

**Curriculum Revisions**

- [MS-MAS-AM: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in applied mathematics](#)
- [MS-MAS-MA: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in mathematics](#)

**New Courses**

- [MATH 502: Abstract Algebra I](#)
- [MATH 550: Combinatorics](#)
- [MATH 650: Advanced Combinatorics](#)
- [MATH 656: Advanced Graph Theory](#)

**Course Revisions**

- [MATH 750: Topics in Combinatorics: \\_\\_\\_\\_\\_](#)
- [MATH 756: Topics in Graph Theory: \\_\\_\\_\\_\\_](#)
- [MATH 769: Topics in Applied Mathematics: \\_\\_\\_\\_\\_](#)
- [MATH 556: Graph Theory](#)
- [MATH 633: Partial Differential Equations](#)
- [MATH 690: Research Seminar](#)

**Department of Physics & Physical Science**

**Course Revisions**

- [PHYS 583: Geometrical Methods of Physics and Gravitation](#)
- [PHYS 640: Equilibrium Statistical Physics](#)

**Department of Psychology**

**Curriculum Revisions**

- [PHD-PSH: Health Psychology, Doctor of Philosophy \(Ph.D.\)](#)
- [PHD-PSL-BD: Clinical Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in behavioral medicine](#)
- [PHD-PSL-CC: Clinical Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in clinical child](#)
- [PHD-PSN: Counseling Psychology, Doctor of Philosophy \(Ph.D.\)](#)
- [PHD-PSY-DC: Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in developmental psychology](#)
- [PHD-PSY-SH: Psychology, Doctor of Philosophy \(Ph.D.\) with a concentration in social psychology](#)

**Department of Statistical Sciences & Operations Research**

**Curriculum Revisions**

- [MS-MAS-OR: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in operations research](#)
- [MS-MAS-ST: Mathematical Sciences, Master of Science \(M.S.\) with a concentration in statistics](#)

[PHD-SMS: Systems Modeling and Analysis, Doctor of Philosophy \(Ph.D.\) \[Statistical Sciences and Operations Research\]](#)

**Course Revisions**

- [STAT 775: Time Series Analysis II](#)
- [SSOR 690: Research and Communications Seminar](#)

**School of Allied Health Professions**

**Department of Gerontology**

**Curriculum Revision**

- [MS-GTY: Gerontology, Master of Science \(M.S.\)](#)

**New Courses**

- [GRTY 639: Human Resource Management and Leadership for Gerontologists](#)
- [GRTY 640: Financial Management for Gerontological Leaders](#)

**Department of Physical Therapy**

**New Courses**

- [PHTY 540: Psychosocial Aspects of Physical Therapy](#)
- [PHTY 660: Musculoskeletal Physical Therapy III](#)

**Course Revisions**

- [PHTY 508: Musculoskeletal Physical Therapy I](#)
- [PHTY 510: Rehabilitation I](#)
- [PHTY 512: Health Care Systems](#)
- [PHTY 648: Musculoskeletal Physical Therapy II](#)
- [PHTY 676: Comprehensive Study of Physical Therapy Practice](#)
- [PHTY 680: Clinical Education III](#)
- [PHTY 695: Clinical Education IV](#)

**Department of Hospital & Health Administration**

**Curriculum Revision**

- [PHD-HSR: Health Services Organization and Research, Doctor of Philosophy \(Ph.D.\)](#)

**Course Revision**

- [HADM 763: Applied Health Services Research](#)

**School of the Arts**

**Course Revision**

- [ARTH 774: Dissertation Proposal](#)

**School of Business**

**Curriculum Revision**

- [MSCM-SCM: Supply Chain Management, Master of \(M.S.C.M.\)](#)

**School of Education**

**Curriculum Revisions**

- [PHD-EDP-CCCH: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in curriculum, culture and change](#)
- [PHD-EDP-CESN: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in counselor education and supervision](#)
- [PHD-EDP-EA: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in art education](#)
- [PHD-EDP-EDPY: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in educational psychology](#)
- [PHD-EDP-EI: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in educational leadership](#)
- [PHD-EDP-RH: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in research and evaluation](#)
- [PHD-EDP-SEDL: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in special education and disability leadership](#)
- [PHD-EDP-SPLD: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in sport leadership](#)
- [PHD-EDP-UL: Education, Doctor of Philosophy \(Ph.D.\) with a concentration in urban services leadership](#)

**Course Revision**

- [EDLP 702: Understanding Self as Leader: Theory and Data Analysis](#)

**School of Engineering**

**Curriculum Revision**

- [PHD-BME: Biomedical Engineering, Doctor of Philosophy \(Ph.D.\)](#)

**New Courses**

**Department of Computer Science**

- [CMSC 615: Cryptocurrency and Blockchain Techniques](#)
- [CMSC 628: Mobile Networks: Applications, Modeling and Analysis](#)
- [CMSC 636: Artificial Neural Networks and Deep Learning](#)

**Department of Electrical & Computer Engineering**

- [EGRE 532: GPU Computing](#)

- [EGRE 573: Sustainable and Efficient Power Systems](#)
- [EGRE 624: Nonlinear Optical Materials and Devices](#)
- [EGRE 626: Advanced Characterization of Electronic Materials and Devices](#)
- [EGRE 627: Nanophotonics](#)
- [EGRE 632: Dependable Embedded Systems](#)
- [EGRE 636: Introduction to Cyber-Physical Systems](#)
- [EGRE 644: Wireless Communications](#)
- [EGRE 651: Intelligent Linear Systems](#)

## **School of Nursing**

### **Curriculum Revision**

- [DNP-NRP: Nursing Practice, Doctor of \(D.N.P.\)](#)

### **Course Revisions**

- [NURS 664: DNP Residency: Mentored Practicum](#)
- [NURS 704: Analysis and Construction of Theory for Nursing Research](#)
- [NURS 720: Foundations of Biobehavioral Research](#)
- [NURS 721: Advanced Concepts in Biobehavioral Research](#)
- [NURS 725: Synthesis and Emerging Trends in Scientific Inquiry](#)
- [NURS 731: Foundations in Health Care Quality Research](#)
- [NURS 732: Advanced Concepts in Health Care Quality Research](#)
- [NURS 770: Quantitative Research](#)
- [NURS 772: Qualitative Research](#)
- [NURS 797: Practicum in Nursing Research](#)

## **School of Pharmacy**

### **Curriculum Revision**

- [DPHA-PHA: Pharmacy, Doctor of \(Pharm.D.\)](#)

### **Minor Items for Approval by the Chair and Dean**

## **College of Humanities and Sciences**

### **Course Revisions**

#### **Department of Forensic Science**

- [FRSC 520: Forensic Fire Investigation](#)
- [FRSC 566: Advanced Crime Scene Investigation](#)

#### **Department of Mathematics**

- [MATH 505: Modern Geometry](#)
- [MATH 511: Applied Linear Algebra](#)
- [MATH 707: Functional Analysis I](#)
- [MATH 715: Numerical Solutions for Differential Equations](#)
- [MATH 505: Modern Geometry](#)
- [MATH 615: Iterative Numerical Methods](#)
- [MATH 632: Ordinary Differential Equations I](#)
- [MATH 640: Mathematical Biology I](#)
- [MATH 732: Ordinary Differential Equations II](#)

#### **Department of Statistical Sciences & Operations Research**

- [OPER 731: Discrete Optimization](#)

### **Course Deletions**

#### **Department of Mathematics**

- [MATH 501: Introduction to Abstract Algebra](#)
- [MATH 504: Algebraic Structures and Functions](#)
- [MATH 508: Analysis II](#)
- [MATH 509: General Topology I-II](#)
- [MATH 510: General Topology I-II](#)
- [MATH 512: Complex Analysis for Applications](#)
- [MATH 516: Numerical Analysis II](#)
- [MATH 517: Methods of Applied Mathematics](#)
- [MATH 518: Methods of Applied Mathematics](#)
- [MATH 520: Game Theory and Linear Programming](#)
- [MATH 521: Introduction to Algebraic Number Theory](#)

- [MATH 530: The History of Mathematics](#)
- [MATH 531: Expositions in Modern Mathematics](#)
- [MATH 532: Ordinary Differential Equations I](#)
- [MATH 533: Partial Differential Equations I](#)
- [MATH 534: Applied Discrete Dynamical Systems](#)
- [MATH 554: Using Technology in the Teaching of Mathematics](#)
- [MATH 580: Methods of Applied Mathematics for the Life Sciences: Discrete](#)
- [MATH 581: Methods of Applied Mathematics for the Life Sciences: ODE](#)
- [MATH 582: Methods of Applied Mathematics for the Life Sciences: PDE](#)
- [MATH 603: Advanced Probability Theory](#)
- [MATH 604: Advanced Probability Theory](#)
- [MATH 608: Real Analysis II](#)
- [MATH 620: Theory of Partial Differential Equations](#)
- [MATH 711: Complex Analysis I](#)
- [MATH 712: Complex Analysis II](#)
- [MATH 719: Operational Methods](#)
- [MATH 721: Boundary Value Problems](#)
- [MATH 740: Mathematical Biology II](#)
- [MATH 751: Combinatorics I-II](#)
- [MATH 757: Graph Theory II](#)
- [MATH 759: Graph Enumeration](#)
- [MATH 770: Fourier Analysis](#)
- [MATH 787: Special Topics in Discrete Mathematics](#)

### **School of the Allied Health Professions**

#### **Course Revisions**

- [GRTY 638: Long-term Care Administration](#)
- [HADM 702: Research in Health Care Financing and Delivery Systems](#)
- [HADM 705: Advanced Health Service Organization Theory](#)
- [PHTY 537: Rehabilitation II](#)
- [PHTY 640: Neurologic Physical Therapy](#)

### **School of the Arts**

#### **Course Revision**

- [ARTH 772: Major Field Exam](#)
- [ARTH 773: Minor Field Exam](#)

### **School of Business**

#### **Course Revisions**

- [MKTG 656: International Marketing](#)
- [MKTG 657: International Market Planning Project](#)
- [MKTG 672: Concepts in Consumer Behavior](#)
- [MKTG 673: Marketing Research](#)
- [MKTG 674: Service Quality Management](#)

### **School of Education**

#### **Course Deletions**

- [EDUS 700: Externship](#)
- [EDUS 798: Thesis](#)
- [EDUS 899: Dissertation Research](#)

### **School of Nursing**

#### **Course Revisions**

- [NURS 605: Statistical Methods for Quality Improvement](#)
- [NURS 608: Quality Improvement in Practice](#)
- [NURS 610: Health Information and Data Management](#)
- [NURS 700: Scientific Integrity: Responsible Conduct of Research](#)

#### **Course Deletions**

- [NURS 710: Contemporary Influences in Nursing Education: "The Future of Nursing Report](#)
- [NURS 742: Unitary-transformative Dimensions of Healing](#)
- [NURS 750: Risk and Resilience Across the Life Span](#)

- [NURS 760: Foundations of Immunocompetence](#)
- [NURS 761: Research and Practice in Psychoneuroimmunology](#)
- [NURS 771: Instrument Development](#)
- [NURS 775: The Ethnographic Approach to Knowledge Generation in Nursing](#)
- [NURS 780: Patient Care Systems and Patient Outcomes](#)
- [NURS 781: Organizational Analysis in Nursing](#)
- [NURS 782: Analysis of Health Care Policy as a Factor in Nursing Practice](#)

#### **School of Pharmacy**

##### **Course revisions**

- [PHAR 533: Introductory Pharmacy Practice Experience: Patient Care](#)
- [PHAR 549: Personalized Medicine](#)

#### **Changes Approved by the Graduate School (Here as informational item.)**

##### **College of Humanities and Sciences**

- [MS-SOC: Sociology, Master of Science \(M.S.\)](#) – update to admissions requirements: getting rid of Spring semester admissions

##### **School of Dentistry**

- [DDS-DENP: Dentistry, Doctor of Dental Surgery \(D.D.S.\)](#) – update admissions requirements

##### **School of Education**

- [MED-SPL: Sport Leadership, Master of Education \(M.Ed.\)](#) – update curriculum requirements to change the word ‘selective’ to ‘elective’

##### **School of Nursing**

- [PHD-NURD: Nursing, Doctor of Philosophy \(Ph.D.\)](#) – update admissions requirements
- [CPM-NUR-AANP: Nursing, Certificate in \(Post-master’s certificate\) with a concentration in adult-gerontology acute care nurse practitioner](#) – update to admissions requirements
- [CPM-NUR-APNP: Nursing, Certificate in \(Post-master’s certificate\) with a concentration in adult-gerontology primary care nurse practitioner](#) – update to admissions requirements
- [CPM-NUR-FN: Nursing, Certificate in \(Post-master’s certificate\) with a concentration in family nurse practitioner](#) – update to admissions requirements
- [CPM-NUR-NL: Nursing, Certificate in \(Post-master’s certificate\) with a concentration in nursing administration and leadership](#) – update to admissions requirements
- [CPM-NUR-PQNP: Nursing, Certificate in \(Post-master’s certificate\) with a concentration in psychiatric-mental health nurse practitioner](#) – update to admissions requirements
- [MS-NUR-AANP: Nursing, Master of Science \(M.S.\) with a concentration in adult-gerontology acute care nurse practitioner](#) – update to admissions requirements
- [MS-NUR-APNP: Nursing, Master of Science \(M.S.\) with a concentration in adult-gerontology primary care nurse practitioner](#) – update to admissions requirements
- [MS-NUR-FN: Nursing, Master of Science \(M.S.\) with a concentration in family nurse practitioner](#) – update to admissions requirements
- [MS-NUR-NL: Nursing, Master of Science \(M.S.\) with a concentration in nursing administration and leadership](#) – update to admissions requirements
- [MS-NUR-PQNP: Nursing, Master of Science \(M.S.\) with a concentration in psychiatric-mental health nurse practitioner](#) – update to admissions requirements

#### **IV. Old Business**

None.

#### **V. New Business**

None.

#### **VI. Chair’s Report**

- December Commencement: Commencement took place this past Saturday, December 10, 2016. This is the first ceremony in which all master’s students sat in one place together, behind the doctoral students.



- Enrollment targets: Recently, the Graduate School has met with all School Deans/Associate Deans within the University to discuss graduate enrollment targets for fall 2017. Overall, we are shooting for higher master's enrollment and expect to see higher doctoral enrollment numbers as well.
- SCHEV Compliance issues: Many graduate programs are currently out of compliance with SCHEV's policy regarding core courses in a program. For doctoral programs, 25% of the core curriculum must be the same for all concentrations in a program. For master's programs, 50% of the core must be the same for all concentrations. The Provost's Office and Graduate School will be reviewing all programs to assess how to resolve these issues and get all of our programs in compliance. Eventually, these changes will need to go through P&C and UGC for approval.