

**MINUTES OF THE MEETING
OF THE GRADUATE ACADEMIC POLICIES AND PROCEDURES COMMITTEE
January 25, 2016
APPPROVED**

The Graduate AP&P Committee met on Monday, January 25, 2016 at 3:00 pm in the William C. Strickland Conference Room of I.G. Greer Hall.

Present: John Abbott, Mark Bradbury, Scott Collier, Patty Dale, Marty Hall, Dru Henson, Holly Hirst, Marie Hoepfl, Denise Levy, Kathleen Lynch-Davis, Gary McCullough, William Pollard, Max Poole, Ben Powell, Debbie Race, Robert Sanders, David Shows, Jennifer Snodgrass, Susan Staub, Tyler Steelman

Excused: Karen Fletcher, Elizabeth Graves

Absent: Audrey Dentith, Sharron Grimes, Lisa Houser, Dontrell Parson, William Pelto, Terry Rawls, Glenda Treadaway, Sandra Vannoy, David Wiley

Guests: Bill Anderson, Jacqui Bergman, Michael Briley, Jennifer Burriss, Lisa Curtin, Jim Fogelquist, Catherine Fountain, Jennifer Geib, Robin Groce, Diane Mines, Lauren Renkert, Tracy Salinas, N. Travis Triplett

1. At 3:00 pm, Dr. Marie Hoepfl confirmed the presence of a quorum, made guest introductions, and called the meeting to order.
2. **MOTION 1: Approval of Minutes.** It was moved (Shows) and seconded (Steelman) that the minutes of the November 16, 2015 Grad AP&P meeting be accepted – PASSED.

Procedural notes: All dual-listed undergraduate course changes are approved through the Undergraduate AP&P Committee. Except as otherwise noted in these minutes, curriculum and policy motions are made from the respective Grad AP&P subcommittees and do not require a second.

3. **New Business:** Curriculum proposals

College of Arts & Sciences:

Department of Anthropology

MOTION 2: To approve the proposal from the Department of Anthropology - PASSED.

G_CAS_ANT_2015_01: Change the title, description and semester offering for **ANT 5410 (Qualitative Research Methods)**, a core methods course, to "**Ethnographic Research Methods**" to read as follows:

ANT 5410. Ethnographic Research Methods (3). On Demand. An introduction to the art of ethnographic fieldwork and research design. Topics include ethnographic methods, proposal writing, and research ethics. Students will carry out an original research project during the course using methods such as participant-observation, interviewing, focus group work, and audio and visual documentation.

Department of Biology

MOTION 3: To approve the proposals from the Department of Biology - PASSED.

GU_CAS_BIO_2015_18: Two requests: **(1)** Add a new course, **GS 5403 (Teaching Science in Middle and High Schools)** and add dual listing with **GS 4403**; **(2)** Change the catalogue description for **GS 4403**, including the dual listing to read as follows:

GS 5403. Teaching Science in Middle and High Schools (3).F; S.

This course is for the prospective middle/high school science teacher and it focuses on effective instructional strategies for teaching principles associated with major school science disciplines. Emphasis is placed on planning, science process skills, inquiry-based instruction, hands-on/minds-on activities, improvising materials, demonstrations, and assessment techniques. Special emphasis is also placed on the North Carolina Standard Course of Study and the Next Generation Science Education Standards. A minimum of 15 hours of experience in public school classrooms will be required as part of this course. [Dual-listed with GS 4403.]

GU_CAS_BIO_2015_19: Two requests: **(1)** Add a new course, **GS 5404 (The Meaning and Nature of Science)** and add dual listing with **GS 4404**; **(2)** Change the catalog description for **GS 4404**, including the dual listing to read as follows:

GS 5404. The Meaning and Nature of Science (3).F. The goal of this course is to help students develop a sound understanding of the nature of science, the process of scientific inquiry, and the reciprocal relationship between science and society through a critical examination of the history of science since the Renaissance. Lecture three hours. [Dual-listed with GS4404.]

Department of Geology

MOTION 4: To approve the proposal from the Department of Geology – PASSED.

GU_CAS_GLY_2015_08: Change prerequisites for **GLY 4630** and **5630 (Hydrogeology)**; Change the semester offering of **GLY 5630** from spring to fall to read as follows:

GLY 5630. Hydrogeology (3).F. The occurrence of groundwater resources; factors governing groundwater movement through aquifers; and an analysis of techniques for measuring a water resource are the focus of this course. Groundwater contamination and remediation methods will be introduced. Lecture two hours, laboratory three hours. Prerequisites: a minimum of six semester hours of geology courses above the 1000 level, MAT 1110. Calculus with Analytic Geometry I and PHY 1150-PHY 1151. Analytical Physics I-II or permission of the instructor. [Dual-listed with GLY 4630.]

Department of Languages, Literatures, and Cultures

MOTION 5: Following discussion about the nature and structure of dual-listed courses, the proposal was WITHDRAWN.

GU_CAS_LLC_2015_09: Add the dual-listed courses, SNH 4035/SNH 5035 (Language Variation in the Spanish-speaking World). Proposal **WITHDRAWN** for redesign and resubmittal.

Department of Mathematical Sciences

MOTION 6: To approve the proposal from the Department of Mathematical Sciences - PASSED.

GU_CAS_MAT_2015_46: 1) Add **MAT 5015 (Advanced Seminar in Secondary Mathematics Education)** as a dual-listed course with **MAT 4015**, an existing course; 2) Change **MAT 4015** as follows: a) Add dual-listing it with **MAT 5015**; b) Change the catalog description; c) Change the title from "**Senior Seminar for Mathematics Majors in Education**" to "**Advanced Seminar in Secondary Mathematics Education**" to read as follows:

MAT 5015. Advanced Seminar in Secondary Mathematics Education (3).F.

This course will include an examination of the North Carolina Mathematics Curriculum for high school with emphases on geometry and other selected topics. Class discussions, group activities, written assignments, and oral presentation will be integral parts of the course. A field experience and other professional development activities are required outside of class. Prerequisite: permission of the instructor. [Dual-listed with MAT 4015.]

MOTION 7: To approve the proposals from the Department of Mathematical Sciences - PASSED.

GU_CAS_MAT_2015_47: Change the course descriptions of the dual-listed courses **MAT 4910** and **MAT 5965 (Informal Geometry)** to read as follows:

MAT 5965. Informal Geometry (3).F. This course is an informal treatment of the geometric concepts in the elementary and middle school mathematics curriculum. The topics considered include polygons, congruence, similarity, tilings, transformations, symmetry, angles, constructions, area, perimeter, circles, and polyhedra. Does not count for the Master of Arts in Mathematics. Prerequisite: MAT 3910. Introduction to the Logic and Structure of Mathematics I or MAT 3920. Introduction to the Logic and Structure of Mathematics II or permission of the instructor. [Dual-listed with MAT 4910.]

GU_CAS_MAT_2015_48: Change the course descriptions of the dual-listed courses **MAT 4930** and **MAT 5935 (Basic Concepts of Probability and Statistics)** to read as follows:

MAT 5935. Basic Concepts of Probability and Statistics (3).On Demand. This course examines the concepts underlying the elementary and middle school curriculum in probability and statistics. Probability models will be studied using both mathematical approaches and simulations. Statistics will be presented as a problem solving process involving question formulation, data collection, data analysis and the interpretation of results. Does not count for the Master of Arts in Mathematics. Prerequisite: MAT 3910. Introduction to the Logic and Structure of Mathematics I or MAT 3920. Introduction to the Logic and Structure of Mathematics II or permission of the instructor. [Dual-listed with MAT 4930.]

Department of Physics and Astronomy

MOTION 8: To approve the proposals from the Department of Physics and Astronomy with corrections - PASSED.

G_CAS_P&A_2015_14: Add **AST 5530-5549 (Selected Topics)** to read as follows:

AST 5530-5549 Selected Topics (1-4). On Demand. An intensive study of a single topic in astronomy or astrophysics.

G_CAS_P&A_2015_15: Add **PHY 5400 (Professional Skills)** to read as follows:

PHY 5400. Professional Skills (1).F. This course is designed to help students develop important professional skills such as leadership, networking, interview skills, self-promotion, resume writing, and cover letter writing, all geared toward the field of engineering physics. Students will complete assignments related to these skills and are expected to attend all guest lectures designed to help students with professional skills. Students should enroll in one of their last two semesters of study. Prerequisites: Open to students admitted to the Engineering Physics graduate program or with permission of the instructor.

G_CAS_P&A_2015_16: Add **PHY 5405 (Graduate Seminar)** to read as follows:

PHY 5405. Graduate Seminar (1). S. This course is designed to help students incorporate the skills of effective communication in Engineering Physics. Students will be required to present their research or internship experience in writing and through oral presentations. Students should enroll in one of their last two semesters of study after completing research or an internship. Prerequisites: Open to students admitted to the engineering physics graduate program or with permission of the instructor.

GU_CAS_P&A_2015_17: 1) Delete **PHY 5640 (Quantum Mechanics)**; 2) Change the catalog description of **PHY 4640 (Quantum Mechanics)** to reflect the removal of the dual-listing.

GU_CAS_P&A_2015_18: 1) Delete **PHY 5820 (Medical Physics)**; 2) Change the catalog description of **PHY 4820 (Medical Physics)** to reflect the removal of the dual-listing.

G_CAS_P&A_2015_19: Delete **PHY 5910 (Professional Science Colloquium)**.

GU_CAS_P&A_2015_20: 1) Delete the dual-listed courses **PHY 4002/5002 (Applied Physics Literature)**.

GU_CAS_P&A_2015_21: 1) Delete **PHY 4740 (Sensors and Transducers)**; 2) Change the catalog description of **PHY 5740 (Sensors and Transducers)** to reflect the removal of the dual-listing and change the prerequisite to read as follows:

PHY 5740. Sensors and Transducers (4).S. This applications-oriented course covers the integration of transducers into sensor-based systems. Students will integrate transducers with signal conditioning circuitry and will develop proficiency in interfacing the conditioned signals with data acquisition hardware, using programs such as the National Instruments LabVIEW software program. Sensors covered include, but are not limited to, temperature, pressure, optical, and humidity. Lecture three hours, laboratory three hours. Prerequisite: PHY 5730 or equivalent.

GU_CAS_P&A_2015_22: 1) Delete **PHY 4735 (Microcontrollers)**; 2) Change credit hours (from 3 to 4), description, and prerequisites of **PHY 5735 (Microcontrollers)** to read as follows:

PHY 5735. Microcontrollers (4).S. An in-depth study of the architecture, programming and interfacing of microcontrollers. Topics to be covered include: introduction to microcontrollers, architectures, internal hardware (such as timers, serial ports, A/Ds, D/As, I2C), instruction sets, assembly language programming, interrupt-driven code, and interfacing. Both stand-alone microcontrollers and single board computers will be used in lab. Most labs will involve interfacing microcontrollers to devices such as switches, LEDs, keypads, 7-segment displays, LCD displays, motors, sensors, etc. Microcontroller simulators and in-circuit-emulators (ICE) will be used for debugging. Lecture-three hours, laboratory three hours. Prerequisite: PHY 5330 or the equivalent.

G_CAS_P&A_2015_23: 1) Change the course number, credit hours and course description of **PHY 5010** [DELETE **PHY 5010** and ADD **PHY 5011**] to read as follows:

PHY 5011. Applied Physics Colloquium (0). F;S. This course is designed to introduce students to a wide variety of physics research and research in other disciplines by attending colloquia on campus. All graduate students are expected to attend all departmental and other designated colloquia. Students must enroll at least two times. Graded on an S/U basis.

GU_CAS_P&A_2015_24: Change credit hours (from 3 to 4) and course description for the dual-listed course **PHY 4330/5330 (Digital Electronics)** to read as follows:

PHY 5330. Digital Electronics (4).F. This course provides an introduction to digital electronics, with an emphasis on the study of components that are building blocks for digital devices and equipment, especially microcomputers. Emphasis will be placed on the design of combinatorial, sequential, and state machine (ASM) circuits, including simplification by Boolean algebra, Karnaugh maps, and computer-aided tools. Hardware description languages will be used to implement designs on programmable logic devices (PLD). Topics to be covered include: number systems, Boolean algebra, logic families, gates, flip-flops, medium scale integration devices, combinatorial and sequential circuits, ASM, PLD, arithmetic logic units, memory, input-output, D/A, A/D, and a generic CPU. The industry-oriented, hands-on labs involve circuit construction, testing and trouble-shooting using modern test equipment. Lecture three hours, laboratory three hours. [Dual-listed with PHY 4330.]

GU_CAS_P&A_2015_25: Change credit hours (from 3 to 4) and course descriptions for the dual-listed courses **PHY 4730/5730 (Analog Systems)** to read as follows:

PHY 5730. Analog Systems (4).F. The theory and operation of DC and AC circuits with discrete passive and active components. Included are resistors, capacitors, inductors, diodes, bipolar transistors, field effect transistors, and operational amplifiers. An in-depth analysis of circuit theorems, phasors, differential equations, and simulations predicting the behavior of systems of analog devices will be explored in lecture and laboratory. The use and limitations of common electronics instrumentation such as multimeters, oscilloscopes, and function generators will also be explored. Lecture three hours, laboratory three hours. [Dual-listed with PHY 4730.]

G_CAS_P&A_2015_26: Change course description of **PHY 5550 (Directed Research)** to read as follows:

PHY 5550 Directed Research in Applied Physics (1-3). F;S. An original research project will be chosen, formulated and executed by the student under the guidance of a faculty member. Individual faculty will determine assessment tailored to the student's particular research project.

G_CAS_P&A_2015_27: Change the prerequisites for **PHY 5635 (LabVIEW Interfacing and Robotics)** to read as follows:

PHY 5635. LabVIEW Interfacing and Robotics (4).S. An applications-oriented course designed to create programs written in the LabVIEW language for hardware interfacing. Data acquisition and control hardware is used to collect data from sensors and instruments which is then analyzed and displayed using LabVIEW. The hardware is also used to control devices such as motors and a five-axis robotic arm. Other topics covered include rotary encoders, state machines, and PID control. The topics covered will prepare students to take the National Instruments CLAD certification exam. Lecture three hours, laboratory three hours. Prerequisite: PHY 5020 or PHY 5735 or PHY 5740.

GU_CAS_P&A_2015_28: Change the course description and prerequisites of the dual-listed courses **PHY 4620/5620 (Optics)** to read as follows:

PHY 5620. Optics (4).F A rigorous introduction to geometric and wave optics with applications including lasers, interferometers, spectroscopy, telescopes, fiber optics, and remote sensing. Basic electromagnetic wave theory is employed to describe the interaction of electromagnetic radiation with matter including absorption, dispersion, reflection, and scattering. Geometric optics is employed to study image formation by optical systems using both ray-tracing and matrix optics methods. Wave optics is used to study interference, diffraction, and coherence. This leads into a detailed lab-based unit dealing with interferometry and optical system alignment, with applications to optical component testing, spectral analysis of light sources, and coherence. The course also includes a semester synthesis project. Lecture three hours, laboratory three hours. Prerequisite: PHY 3001. Analytical Methods in Physics or equivalent (with a grade of "C" or higher) or permission of instructor. [Dual-listed with PHY 4620.]

G_CAS_P&A_2015_29: Change the course description and prerequisites of **PHY 5435 (Laboratory Automation)** to read as follows:

PHY 5435. Laboratory Automation (4).S. A rigorous applications-oriented course designed to foster an in-depth understanding of both the hardware and software aspects of laboratory automation. Personal computers are used to control laboratory instruments, collect and analyze data, and plot results. Topics covered include the use of data acquisition and control cards, serial and IEEE-488 interfacing, and coordinated data collection and control. State-of-the-art data acquisition languages are used extensively in the laboratory. Lecture three hours, laboratory three hours. Prerequisite: PHY 5330 and either PHY 5020 or PHY 5735.

G_CAS_P&A_2015_30: Revise the title of the **Graduate Minor in Physics (272/40.0801)** to a **Graduate Minor in Engineering Physics (147/40.0801)**.

G_CAS_P&A_2015_31: Revise the Program of Study for the **MS in Engineering Physics (Major code: 113*/40.0801)** as follows: 1) Revise the listing of required courses for all concentrations; 2) Revise the listing of specific courses in the **Systems and Laboratory Automation concentration (Code: 113B)**; 3) Revise the listing of specific courses in the **Professional Science Master's (PSM) in Instrumentation and Automation concentration (Code: 113C)**; 4) Revise the listing of specific courses in the **Professional Science Master's (PSM) in Nanoscience for Advanced Materials concentration (Code: 113D)**; 5) Revise the requirements of the comprehensive exam to read as follows:

ENGINEERING PHYSICS PROGRAM OF STUDY

Course Requirements for the Master of Science in Engineering Physics

Semester Hours Required: See specific concentrations below

Required Courses (10 s.h.)

- PHY 5011: Applied Physics Colloquium (0)
- PHY 5330: Digital Electronics (4)
- PHY 5400: Professional Skills (1)
- PHY 5405: Graduate Seminar (1)
- PHY 5730: Analog Systems (4)

Concentration (CHOOSE ONE)

Systems and Laboratory Automation Concentration (Code: 113B)

Hours in concentration: 23 (THESIS) or 26

Total hours required for degree: 33 (THESIS) or 36

- PHY 5735: Microcontrollers (4)
- PHY 5740: Sensors and Transducers (4)
- PHY 5550: Directed Research in Applied Physics (1+1+1=3) OR PHY 5900: Internship (1+1+1=3)
- Choose thesis (12 s.h.) or non-thesis option (15 s.h.):
 - PHY 5999: Thesis (6)
 - 6 s.h. of graduate electives, including at least 3 s.h. of graduate PHY coursework chosen with approval of the program director

O OR

- 15 s.h. of graduate electives with approval of graduate program director

OR

PSM in Instrumentation and Automation Concentration (Code: 113C)

Hours in concentration: 26

Total hours required for degree: 36

- PHY 5735: Microcontrollers (4)
- PHY 5740: Sensors and Transducers (4)
- PHY 5900: Internship (3)
- 12 s.h. of Professional Core Courses approved by graduate program director:
 - ENG 5520: Technical Writing (3) or similar technical communications course
 - 9 s.h. of graduate courses from (BUS 5000:5998, MBA 5000:5998, TEC 5149)
- 3 s.h. of graduate electives approved by graduate program director

OR

PSM in Nanoscience for Advanced Materials Concentration (Code: 113D)

Hours in concentration: 29 or 30

Total hours required for degree: 39 or 40

- PHY 5845: Nanoscience and Technology (3)
- PHY 5860: Physical Principles of Electron Microscopy (3)
- PHY 5861: Physical Principles of Electron Microscopy Laboratory (1)
- PHY 5900: Internship (3)
- 7-8 s.h. of Related Coursework: Choose 2 of the following 3 with approval of graduate program director
 - PHY 5740: Sensors and Transducers (4)
 - A course in solid state physics (3)
 - A course in materials (4)
- 12 s.h of Professional Core Courses approved by graduate program director:
 - ENG 5520: Technical Writing (3) or similar technical communications course
 - 9 s.h. of graduate courses from (BUS 5000:5998, MBA 5000:5998, TEC 5149)

Other Requirements for the MS in Engineering Physics:

- Thesis: Optional
- Proficiency: Not required
- Candidacy: Required for thesis option; admission to candidacy is awarded upon approval of thesis committee and prospectus
- Comprehensive: An oral defense of the thesis is required for the thesis option of **Systems and Laboratory Automation**. For non-thesis option and other concentrations: A written and oral comprehensive examination is required.
- Product of Learning: Not required

Department of Psychology

MOTION 9: The Proposal **G_CAS_PSY_2015_10** was WITHDRAWN.

MOTION 10: To approve the proposal from the Department of Psychology - PASSED.

G_CAS_PSY_2015_11: Change the hours for **PSY 5998 (Thesis Proposal)** from 3 to 1-3 to read as follows:

PSY 5998. Thesis Proposal (1-3).F;S. Graded on an S/U basis.

Department of Sociology

MOTION 11: To approve the proposals from the Department of Sociology – PASSED.

GU_CAS_SOC_2015_13: Change **SOC 5750 (Social Stratification)** as follows: 1) Remove the dual-listing with **SOC 4750**; 2) Change the semester offering from fall/spring to fall to read as follows:

SOC 5750. Social Stratification (3).F. A study of the distribution of wealth, power, privilege, and prestige. The course examines conservative, liberal, and radical explanations of human inequality. Cross-cultural and comparative analysis is used to focus on various problems of inequality and their consequences.

GU_CAS_SOC_2015_14: Change **SOC 5600 (Political Sociology)** as follows: 1) Remove the dual-listing with **SOC 4600**; 2) Change the semester offering from spring alternate years to "**On Demand**" to read as follows:

SOC 5600. Political Sociology (3).On Demand. An analysis of the social influences on political behavior, the relationship between political and other institutions, the uses and abuses of political power.

GU_CAS_SOC_2015_15: Change **SOC 5650 (Women in the Justice System)** as follows: 1) Remove dual-listing with **SOC 4650**; 2) Change semester offering from S to "**On Demand**" to read as follows:

SOC 5650. Women in the Justice System (3).On Demand. This course will explore issues related to women in the criminal justice system. It will examine the types of crime committed by women, treatment of women by police, courts, and the correctional system, women's victimization by battering, rape, and harassment, and women in non-traditional criminal justice occupations.

GU_CAS_SOC_2015_16: Change **SOC 5800 (Sociology of the Family)** as follows: 1) Remove the dual-listing with **SOC 4800**; 2) Change the title to "**Sociology of Families**"; 3) Revise the semester offering from fall/spring to fall to read as follows:

SOC 5800. Sociology of Families (3).F. The origin and development of the family as a social institution; the contemporary family in various cultures; the relationship of the family to the economic, political, religious, and educational institutions in American society.

GU_CAS_SOC_2015_17: Change **SOC 5950 (Globalization and Population)** to remove the dual-listing with **SOC 4850** to read as follows:

SOC 5950. Globalization and Population (3).On Demand. This course examines how worldwide changes have given rise to global organizations, global inequities and some environmental degradation. Special emphasis is placed on how the population dynamics of fertility, mortality and migration underlie many global issues and create new conflicts.

GU_CAS_SOC_2015_18: Change the title and course description of **SOC 5560 (Race and Minority Relations)** as to read as follows:

SOC 5560. Race and Ethnicity (3).F. Critically examines how race and ethnicity are socially constructed, defined, and perpetuated throughout social institutions. Utilizes sociological theories and current research that demonstrate the extent of racial/ethnic inequalities. Social justice efforts to reduce racial and ethnic inequalities are also addressed. [Dual-listed with SOC 4560.]

MOTION 12: To approve the proposals from the Department of Sociology, Graduate Certificate in Gerontology, with changes noted -- PASSED.

G_CAS_SOC_2015_20: Revise the **Graduate Certificate in Gerontology** to (1) make it more accessible to on-campus students and (2) to bring the total semester hours more in line with the norm for graduate certificates. Revisions include: 1) Decrease the semester hours of the **Graduate Certificate in Gerontology** from 15 to 12; 2) Decrease the required courses from 5 to 3 including **5400 (Sociology of Adult Development & Aging)** and two of **SOC 5420 (Health Care & Aging)**, **SOC 5630 (Programs & Services for Older Adults)**, and **SOC 5550 (Housing for Older Adults)**. All of these are now offered online; 3) Courses not taken in Option #2 can be taken as pre-approved electives; and 4) Provide additional pre-approved on-campus electives.

The Graduate Certificate program can be completed 100% online so students can schedule coursework and assignments around their job, family and other obligations. There is no requirement to be logged on at a particular day or time, nor is there any online course requirement to come to the main campus. Other elective courses are offered only on campus.

PROGRAM OF STUDY FOR THE GRADUATE CERTIFICATE IN GERONTOLOGY

Admission Requirements: Baccalaureate degree from an accredited college or university; complete application to the Graduate School; writing sample describing the applicant's relevant academic, work or volunteer experience, and the applicant's reasons for applying to the program. Some requirements may be waived for applicants already accepted into an Appalachian State University master's degree program.

Location: On Line and On Campus

Course Requirements for the Graduate Certificate in Gerontology (Code: 110A)

Semester Hours Required: 12

Required Courses

SOC 5400: Sociology of Adult Development and Aging (3)

and at least one two of the following:

SOC 5420: Health Care and Aging (3)

SOC 5550: Housing for Older Adults (3)

SOC 5630: Programs and Services for Older Adults (3)

Pre-Approved Elective Courses

- BIO 5563: Biology of Aging (3)
- CSD 5850: Adult Language Disorders (3)
- PA 5270: Not-for-profit Organizations (3)
- PA 5271: Grants Strategies and Preparation (3)
- FCS 5551: Families in Later Life (3)
- GHY/PLN 5400: Planning Theory and Processes (3)
- HPC 5680: Counseling the Aging (3)
- HPC 5110: Multicultural Counseling (3)
- NUT 5210: Nutrition for the Elderly (3)
- PSY 5562: Psychology of Adulthood and Aging (3)
- RM 5560: Leisure and Aging (3)
- SW 5840: Nonprofit and Public Human Services Administration (3)
- NUR 5150: Advanced Health Assessment for Adults (3)
- NUR 5250: Nursing Research and Evidence-Based Practice (3)
- SOC 5900: Internship (3)

NOTE: Many pre-approved elective courses have prerequisites. Students should ensure they either meet the prerequisites or receive Permission of Instructor to take the course.

Beaver College of Health Sciences:

Department of Communication Sciences and Disorders

MOTION 13: To approve the proposals from the Department of Communication Sciences and Disorders - PASSED.

GU_HS_CSD_2015_04: Remove the dual-listing from **CSD 4850** and **CSD 5850 (Adult Language Disorders)** and Change name and course description of **CSD 5850** to **(Adult Neurogenic Communication Disorders)** to read as follows:

CSD 5850. Adult Neurogenic Communication Disorders (3).F;S. Provides requisite knowledge for understanding, assessing, and treating language and cognitive impairments in adults with focal and diffuse brain injury. Students will learn about neural substrates for language and cognition, assessment principles, and treatment for aphasia, right hemisphere disorders, traumatic brain injury, and dementia.

G_HS_CSD_2015_08: 1) Request that the phrase "**(Meets ASHA XX-X-X)**" be removed from all CSD graduate course descriptions; and 2) Request the required Praxis score be changed to "162" rather than 600 in POS to read as follows:

CSD 5162. Structural Analysis of Language (3).F;S. A study of language content, form, and use with special emphasis on the acquisition of descriptive taxonomies for the classification of spoken language samples. The course includes guided and independent practice in language sampling and analysis procedures. [Dual-listed with CSD 4162.]

CSD 5364. Audiology (3).F;S. The science of hearing and the etiologies of hearing impairment. Prerequisites: CSD 2259 (Communication Disorders), CSD 2260 (Anatomy and Physiology of the Speech and Hearing Mechanism), CSD 2464 (Basic Speech and Hearing Science), and CSD 2465 (Basic Speech and Hearing Science Laboratory); or permission of the department chair. [Dual-listed with CSD 4364.]

CSD 5561. Introduction to Clinical Procedures I (3).F;S. This course provides instruction in methods used for intervention in speech-language pathology. Primary emphasis is placed on evidence-based remediation procedures for children and adults with communication disorders; implementing clinical approaches in a variety of settings; organization of clinical practicum; and writing skillful clinical reports, referral letters, IEPs, and IFSPs. Students will participate in clinical experiences.

CSD 5565. Clinical Practicum II (3).F;S. Supervised second level practicum in evaluation and therapy techniques in speech-language pathology. Specific clinical assignments will depend on prior and concurrent coursework in the disorders areas. Assignments will be consistent with the workload formula in the Department of Communication Sciences and Disorders Graduate Student Handbook. Students may have an off-campus placement. Graded on an S/U basis. Prerequisite: CSD 5561.

CSD 5566. Clinical Practicum III (3 or 6).F;S. Supervised third level practicum in evaluation and therapy techniques in speech-language pathology. Specific clinical assignments will depend on prior and concurrent coursework in the disorders areas. Assignments will be consistent with the workload formula in the Department of Communication Sciences and Disorders Graduate Student Handbook. Students may have an off-campus placement. CSD 5566 may be taken for 6 s.h. alone, or for 3 s.h. credit concurrently with a 3 s.h. enrollment in CSD 5569. Graded on an S/U basis. Prerequisite: CSD 5565.

CSD 5569. Clinical Practicum IV (3).F;S. Supervised practicum involving evaluation and therapy techniques in speech-language pathology. Specific clinical assignments will depend on prior and concurrent coursework in the disorders areas. Graded on an S/U basis. Prerequisite: CSD 5566.

CSD 5660. Evidence-Based Practice in Communication Sciences and Disorders (3).F;S. This course provides instruction in evidence-based practice, including research and experimental design in communication sciences and disorders. The course will focus on the importance of evidence-based practice in communication sciences and disorders; scientific principles, methods and controls used in the field; design and analysis of research on groups and single subjects; levels of evidence in evidence-based practice; and constructing, writing, and presenting a research manuscript using evidence-based practice.

CSD 5661. Assessment and Evaluation (3).F;S. The philosophy and implementation of procedures for the evaluation of communication disorders in children and adults with emphasis on obtaining and interpreting case history data, conducting diagnostic interviews, and administering, scoring and interpreting data from diagnostic

instruments used to evaluate articulation, language, fluency, voice, and motor speech disorders. Observation of and participation in diagnostic sessions are required.

CSD 5662. Management of Hearing Disorders (3).S;SS. Studies of the habilitation/ rehabilitation of hearing impairments in preschool and school-aged children and adults. Emphasis on prescriptive and resource curricular management. Includes audition training, speech reading methods, and a survey of hearing aid monitoring techniques. Prerequisite: CSD4364/5364 (Audiology). [Dual-listed with CSD 4662.]

CSD 5663. Disorders of Fluency (3).F.S. Study of the etiology, evaluation, and management of disorders of fluency (including stuttering) in children and adults with a concentration on the major theories of causation.

CSD 5666. Voice and Resonance Disorders (3).F.S. Study of the etiology, evaluation, and rehabilitation of functional and organic voice disorders in children and adults, including a review of the anatomic and physiological bases of phonation, respiration, and resonance; theories of voice production; and physiologic and acoustic correlates of voice disorders.

CSD 5669. Speech Sound Disorders (3).F.S. Clinical application of current research in disorders of the speech sound system.

CSD 5672. Severe Communication Disorders in Children and Adults (3).SS. A study of the communication development of children and adults with severe communication disorders. Emphasis will be placed on developing expertise in ongoing evaluation through standard and nonstandard procedures, program planning, and use of augmentative communication systems.

CSD 5675. Preschool Language Disorders (3).F;S. A study of the evaluation and management of language disorders in preschool children, including models of language and language disorders, high risk factors, and interdisciplinary assessment, program planning, and intervention. Prerequisites: CSD 3366 (Communication Development), CSD 4162 (Structural Analysis of Language), or permission of the instructor.

CSD 5676. School-Age Language Disorders (3).F;S. A study of the identification, evaluation, and management of language disorders in school-aged children and adolescents, with special emphasis on language development after age five, the role of language in educational contexts, formal and informal assessment strategies, alternative service delivery models, and specific strategies for intervention. Prerequisites: CSD 3366 (Communication Development), CSD 4162 (Structural Analysis of Language), or permission of the instructor.

CSD 5678. Written Language Disorders (3).F;S. A study of the identification, evaluation, and management of written language disorders in individuals from birth to 18 years who are at risk for or who have been identified as having a communication and/or specific language impairment (SLI). A special emphasis is placed on the written language skills of these individuals in a variety of educational contexts (e.g., daycare settings,

developmental preschool programs, public schools, etc.). Formal and informal strategies for assessment, alternative service delivery models, and specific strategies for intervention will be covered. Prerequisites: CSD 5675 and CSD 5676 or permission of the instructor.

CSD 5682. Communication Disorders in Diverse Populations (3).SS. A seminar on the interrelationship of sociological variables and linguistic performance with special emphasis on communication differences and disorders among culturally and linguistically diverse populations, non-biased assessment of diverse populations, elective intervention approaches, and differing learning styles.

CSD 5766. Neuroanatomy and Physiology (3).F;S. Basic anatomy and physiology of the central and peripheral nervous systems with special emphasis on neural systems involved in normal and disordered speech, language, and hearing. Prerequisite: CSD 2260 (Anatomy and Physiology of the Speech and Hearing Mechanism). [Dual-listed with CSD4766.]

CSD 5850. Adult Language Neurogenic Communication Disorders (3).F;S. Provides requisite knowledge for understanding, assessing, and treating language and cognitive impairments in adults with focal and diffuse brain injury. Students will learn about neural substrates for language and cognition, assessment principles, and treatment for aphasia, right hemisphere disorders, traumatic brain injury, and dementia.

(The change in this course was requested with proposal GU_HS_CSD_2015_04)

CSD 5851. Motor Speech Disorders (3).F;S. This course provides instruction in the differential diagnosis and management of neurogenic speech disorders, including the dysarthrias and apraxia of speech.

CSD 5852. Dysphagia (3).F;S. This course provides instruction in the description, differential diagnosis, and management of swallowing disorders in adults and children. Discussion will include developmental, behavioral, structural, and neurogenic disorders and the cultural influences on eating behaviors.

CSD 5900. Internship (6-12).F;S. An internship in the area of communication disorders. Graded on an S/U basis. Prerequisites: completion of CSD 5566 or its equivalent and permission of the Communication Disorders faculty.

CSD 5989. Graduate Research (1-9).F;S. This course is designed to provide access to University facilities for continuing graduate research at the master's and specialist's levels. Graded on an S/U basis. CSD 5989 does not count toward a degree.

CSD 5999. Thesis (1-4).F;S. Graded on an SP/UP basis until the thesis has been successfully defended and received final approval, at which time all grades will be changed to S.

Other Requirements for the MS in Speech-Language Pathology:

- **Thesis:** Optional
- **Proficiency:** Not required
- **Candidacy:** Required; see an assigned academic advisor for specific timeline and requirements for admission to candidacy
- **Comprehensive:** PRAXIS II (NTE) in Speech Language Pathology serves as the comprehensive examination. Minimum score 600 or 162*.
- **Product of Learning:** Not required

* ETS changed the test score scale effective September 2014. For details, please Visit:
<https://www.ets.org/praxis/asha/requirements/>

Department of Health and Exercise Sciences

MOTION 14: To approve the proposals from the Department of Health and Exercise Sciences - PASSED.

GU_HS_HES_2015_1: 1) Remove all dual listings in the ES curriculum and 2) Change titles and course descriptions of the following: **ES 4600-5600 (Survey of Sports Performance); ES 4620-5620 (Cardiovascular Physiology); ES 4625-5625 (Concepts of Clinical Exercise Testing)** to read as follows:

ES 5600. Analysis of Sports Performance (3).S. This course is an overview of non-Olympic, Summer and Winter Olympic sports. It focuses on physiological and biomechanical requirements, and other performance characteristics and sport requirements. Typical resistance training programs for each sport will also be discussed.

ES 5620. Advanced Cardiorespiratory Physiology (3).F. This is an advanced course in cardiovascular exercise physiology designed to address specific principles and concepts of cardiorespiratory physiology as they apply to physical work. Topics such as cardiac function, blood flow, ventilation, oxygen transport and metabolism will be covered, focusing on cardiovascular control during acute and chronic exercise.

ES 5625. Exercise Testing for Clinical Populations (3).F. This course provides experience in common clinical exercise testing procedures and interpretation for various chronic disease populations. Students will be required to conduct a variety of clinical exercise tests used in the assessment of common cardiopulmonary and metabolic chronic diseases used in clinical settings and hospitals. Students will be required to demonstrate

proficiency through practical evaluations, written examinations, and group presentations. Emphasis will be placed on the student's ability to independently manage exercise testing in preparation for leadership roles in a variety of clinical settings.

GU_HS_HES_2015_1 Cont'd: 1) Remove dual listing, and 2) Change course title, description, title and semester offering of **ES 4645-5645 (Cardiopulmonary Pathophysiology and Rehabilitation)** to read as follows:

ES 5645. Current Trends in Cardiopulmonary Pathophysiology (3).S. This course details the functions of the cardiovascular and respiratory systems emphasizing pathophysiology and treatment. Focus will be on current literature to address recent findings in disease and treatment. Prerequisite: ES 5620.

GU_HS_HES_2015_1 Cont'd: 1) Remove dual listing, and 2) Change course description and prerequisites of **ES 4660-5660 (Exercise Prescription and Chronic Disease Management)** to read as follows:

5660. Exercise Prescription and Chronic Disease Management (3).S. A comprehensive overview of the physical, physiological, and metabolic responses of the human body to exercise testing and training in healthy individuals and in those with metabolic, cardiovascular, and/or pulmonary disease. The focus will be on exercise as both treatment and prevention of disease, as well as managing healthy and clinical populations in a safe and professional setting. Current literature will be included to keep students up to date with novel treatments. An overview of environmental and legal considerations in the prescriptive process will also be discussed. Prerequisite: ES 5620.

G_HS_HES_2015_2: Increase the range of internship credit hours from 3-12 to 1-12 for **ES 5900** to read as follows:

ES 5900. Internship (1-12).F;S. A guided, practical experience at a qualified program site. Internship credit is determined by the ratio of 50 contact hours for one hour of credit for a maximum of 12 s.h. Graded on an S/U basis.

Reich College of Education:

Department of Curriculum and Instruction

MOTION 15: To approve the proposal from the Department of Curriculum and Instruction - PASSED.

GU_COE_CI_2015_6: (1) Change the course for **CI 3080** to **CI 4085**, and (2) Create a dual-listed course, **CI 5085 Teaching Secondary Mathematics** to read as follows:

CI 5085. Teaching High School Mathematics (3).F. This course prepares prospective secondary Mathematics teachers to understand effective mathematics curricula based on national, state, and program standards, and to implement effective instruction and assessment in grades 8-12. Major topics include current research in mathematics

education, understanding abilities of diverse learners, instructional strategies (including interpreting secondary mathematics content for learners), applying instructional technology, assessing learning, and secondary classroom management. An instructional design plan (IDP) is created and at least two lessons from that IDP are taught to students during the internship. Students will have an internship experience in public school classrooms. It is strongly advised that all other requirements for licensure (except student teaching) be completed prior to the methods course. [Dual-listed with CI 4085.]

Beaver College of Health Sciences:

Department of Social Work

MOTION 16: To approve the proposal from the Department of Social Work - PASSED. There was one abstention (Levy).

G_HS_SW_2015_2: Revise admission requirements for the **Master of Social Work** program to eliminate specific content areas that were previously required as part of the liberal arts background requirements for MSW students. Per our accreditation body, the new requirements will state that incoming students have a broad liberal arts background including knowledge from a variety of disciplines to read as follows:

Admission Requirements: Baccalaureate degree from an accredited college or university; complete application to the Graduate School; official general GRE exam scores; an undergraduate liberal arts background, including knowledge from a variety of disciplines; personal statement.

Walker College of Business:

Department of Management

MOTION 17: To approve the proposal from the Department of Management - PASSED.

GU_COB_MGT_2015_01: Change the title of **MGT 4630/5630** from **(Labor Relations)** to **(Employee and Labor Relations)**; and change the course description to read as follows:

MGT 5630. Employee and Labor Relations (3).S. This course explores the historical development of U.S. employment relations, the rights and responsibilities of employers and employees, and the legal framework of labor relations. The focus is on both union and nonunion settings, however special consideration of issues, terms, and strategies of union contract negotiation and administration are discussed. Strong consideration is given to public policy relating to the employment relationship. In addition to these topics, we will explore union governance and structure, collective bargaining and impasse resolution procedures, grievance procedures, employee involvement and opinions, and deviant workplace behaviors. [Dual-listed with MGT 4630.]

Master of Business Administration

MOTION 18: To approve the proposals from MBA with corrections noted - PASSED.

G_COB_MBA_2015_1: Revise program of study to reflect that rather than requiring MBA students to take **MBA 5820 Executive Skills** every semester they are enrolled in the program, they are required to take the course three times to read as follows:

MBA 5820: Executive Skills (0) F; S; SS. –This course is designed to help the student develop important business skills, such as resume-building, interviewing, networking and self-promotion. Material will be conveyed to the students through seminars, guest speakers and student projects. Students will also need to complete various assessment exercises. Prerequisite: admission to the MBA Program or permission of the program director. Full-time and part-time students must enroll for three semesters; dual-degree students must enroll for two semesters.

G_COB_MBA_2015_2: Remove **MBA 5250: Strategic Sourcing and Logistics Management** as a required course in the **MBA supply chain** concentration and keep it in the list of possible electives for the MBA supply chain management concentration to read as follows:

Supply Chain Management (Code: 305I).

Choose 9 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- MBA 5250: Strategic Sourcing and Logistics Management (3)
- MBA 5680: Six Sigma, Lean and Quality Management (3)
- MBA 5870: Analytical Models for Supply Chain Management (3)
- ECO 5740: Forecasting and Time Series Models (3)

G_COB_MBA_2015_3: Require **MBA 5240: Sustainability Performance Assessment** for the MBA sustainability concentration to read as follows:

Sustainable Business Concentration (Code: 305D).

MBA 5240: Sustainability Performance Assessment (3) AND

Choose 6 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- ECO 5621: Environmental Economics and Policy (3)
- ECO 5660: Benefit-Cost Analysis (3)
- MBA 5080: Sustainable Business for a Global Economy (3)
- MGT 5770: Business Ethics (3)

PROGRAM OF STUDY FOR THE MASTER OF BUSINESS ADMINISTRATION

Admission Requirements: Baccalaureate degree from an accredited college or university; complete application to the Graduate School; official general GMAT or GRE exam scores; evidence of knowledge in statistics, financial accounting, economics, corporate finance, marketing, and organizational behavior through course work, work experience or completion of the accelerated prerequisite program before taking graduate course work in those subjects.

To be considered for admission, applicants must meet the criteria for admission to the Graduate School. Meeting this condition does not guarantee admission.

Location: On Campus and Off Campus. Off-Campus cohorts follow a part-time extended format.

**Course Requirements for the Master of Business Administration (Code: 305*)
Total Semester Hours Required (minimum): 36**

Required Coursework

- MBA 5020: International Experience (3)
- MBA 5110: Economics for Decision-Making (3)
- MBA 5200: Problem Analysis and Quantitative Methods (3)
- MBA 5220: Operations and Supply Chain Management (3)
- MBA 5230: Fundamentals of Business Analytics (3)
- MBA 5320: Managerial Accounting (3)
- MBA 5420: Marketing Strategy and Applications (3)
- MBA 5600: Managerial Finance (3)
- MBA 5750: Strategic Management (3)
- MBA 5820: Executive Skills (0) – Full-time and part-time students must enroll three times; dual-degree students must enroll twice.

Concentration (CHOOSE 1)

Business Analytics (Code: 305F)

CIS 5850: Business Analytics Project (3) **AND**

Choose 6 s.h. from the list below or from the additional elective options at the end of the program description; electives outside of business require approval of the department offering the course; other electives may be chosen with approval of the program director.

- CIS 5630: Data Management (3)
- CIS 5830: Security Privacy and Ethical Issues in Business Analytics (3).
- MBA 5870: Analytical Models for Supply Chain Management (3)
- ECO 5740: Forecasting and Time Series Models (3)
- CS 5710: Data Mining and Knowledge Discovery in Scientific Data (3)
- BIO 5777: Biostatistics (4)
- GHY 5812: Advanced GIS (3)

OR

Economics Concentration (Code: 305E)

Choose 9 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- ECO 5621: Environmental Economics and Policy (3)
- ECO 5640: International Economic Policy (3)
- ECO 5660: Benefit-Cost Analysis (3)
- ECO 5740: Forecasting and Time Series Models (3)

OR

Interdisciplinary Business (Code: 305G)

(For students concurrently enrolled in MBA and another master's program at Appalachian) 9 s.h. chosen in consultation with the MBA program director; courses will typically be chosen

from the other major. In addition, double majors may petition to substitute MBA 5020 International Experience with an additional course from the other major; see the program director for more information. The final programs of study for both majors may not overlap by more than 50%.

OR

International Business Concentration (Code: 305C)

Choose 9 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- ACC 5230: International Accounting (3)
- ECO 5640: International Economic Policy (3)
- MBA 5020: International Experience (3)
- MBA 5080: Sustainable Business for a Global Economy (3)
- MBA 5720: International Seminar (3)
- MKT 5550: International Marketing (3)

OR

Leading and Managing Human Resources (Code: 305H)

Choose 9 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- COM/MBA 5311**: Communication in Conflict Management (3)
- MGT 5040: Employment Law (3)
- MGT 5160: Strategic Human Resource Management (3)
- MGT 5660: Staffing (3)
- MGT 5661: Performance Management (3)
- MGT 5671: Training and Development (3)
- MGT 5672: Advanced Organizational Psychology (3)
- MGT 5700: Contemporary Issues in Management and Leadership (3)
- MGT 5770: Business Ethics (3)
- PSY 5070: Organizational Behavior Management (3)

OR

Supply Chain Management (Code: 305I)

Choose 9 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- MBA 5250: Strategic Sourcing and Logistics Management (3)
- MBA 5680: Six Sigma, Lean and Quality Management (3)
- MBA 5870: Analytical Models for Supply Chain Management (3)
- ECO 5740: Forecasting and Time Series Models (3)

OR

Sustainable Business Concentration (Code: 305D)

MBA 5240; Sustainability Performance Assessment (3) AND Choose 6 s.h. from the list below or from the additional elective options at the end of the program description; other electives may be chosen with approval of the program director.

- ECO 5621: Advanced Environmental Economics (3)
- ECO 5660: Benefit-Cost Analysis (3)
- MBA 5080: Sustainable Business for a Global Economy (3)
- MGT 5770: Business Ethics (3)

**Note: MBA students should seek permission from the MBA director before registering for the non-MBA section of these courses.

Other Requirements for the MBA:

- **Thesis:** Optional
- **Proficiency:** Not required
- **Candidacy:** Required
 - Students must demonstrate knowledge and exposure to international business and culture before completion of the degree program, through approved activities such as short term study abroad, completion of a course with an international theme, international internship, practicum with an international theme, or other activities as approved by the program director.
 - Students must document valid work experience before the completion of the degree program, through approved activities such as business practicum, internship, documented previous work experience, or other activities approved by the program director.
- **Comprehensive:** Not required
- **Product of Learning:** Not required

Additional Elective Options: With approval of the program director, the following courses can count in any concentration provided that the course content fits with the concentration theme.

- MBA 5020: International Experience (3)
- MBA 5060: Executive Seminar (1-3)
- MBA 5500: Independent Study (1-3)
- MBA 5800: Business Practicum (1-6)
- MBA 5900: MBA Internship (1-6)
- MBA 5998: Thesis Preparation (1-3)
- MBA 5999: Thesis (1-6)

4. Old Business:

A. Update on Graduate Program Review Policy: Marie Hoepfl stated that the Committee was going to refine and clarify the Program Review Policy as there is still confusion about the fact that the process is not “in addition to” but rather “in line with” other assessment requirements.

B. Update on Revisions to Thesis/Dissertation Bound Copy Requirements: Max Poole stated the Joyce Ogburn agreed that the Library no longer needs a hard copy of theses and dissertations. A policy is being drafted by the School of Graduate Studies that states that the Graduate School will still handle the “front piece” of the process but now the Library will handle the “back piece,” and that it will be the department’s responsibility to get the bound copies to the student.

5. Updates from the Graduate School:

- A. Max Poole spoke briefly about a proposal under consideration to increase the hourly wage paid to all Graduate, Research, and Teaching Assistants. The plan is still in the discussion stage whereby Max is meeting with each Dean to talk through the plan's feasibility and financial requirements.
- B. Rob Sanders stated that Anna Basnight in the School of Graduate Studies is working on an attribute in the Banner Student record that will indicate accelerated admission status.
- C. Mark Bradbury suggested that each weekly Graduate Announcement sent by Rob Sanders include a "helpful hint" or a "FYI" item to assist Program Directors.
- D. Max Poole shared an enrollment "snapshot" that captured that there are 1,031 graduate students currently on campus.
- E. Dontrell Parson was not present so Rob Sanders shared that there were 16 graduate student participants in the 3MT competition held on January 21, 2016. The winner will be competing in Charlotte at the SCGS Conference on February 20, 2016.
- F. Marie announced that Tyler Steelman, President of GSAS, will be attending the Iowa caucus.

Meeting adjourned at 5:05 pm by Marie Hoepfl, with a reminder that the next meeting will be February 15, 2016.