

Graduate Council Minutes

October 13, 2011

2:30 pm

Present: Drs. Sustich, Schmidt, Humphrey, Holman, Traylor, Owen, Miao, Zeng, Christenberry, Clift, McKay, and Risch. Also present were Ms. Finch, Welch, McCann, and Mr. Henry. Visiting: Dr. Beasley.

1. Elected new Committee Chair...Dr. Tom Risch
2. New Program  
Master of Science in Engineering-**APPROVED**
3. New Courses  
POSC 5233 Life sex death or Body politics in Comparative Perspective-**APPROVED**  
SCOM 6103 Communication Theory-**TABLED**
4. Bulletin Changes  
Exercise Science bulletin change-**APPROVED**  
Sports Administration bulletin changes-**APPROVED**  
PSSC 6543 prerequisite change-**APPROVED**  
SCOM 6253 bulletin change-**APPROVED**  
Bulletin Change for DPT program-**APPROVED**  
Bulletin Change PT 818V Independent Study-**APPROVED**  
Bulletin Change PT 7123 Introduction to Research and Evidence Based Practice-**APPROVED**  
Bulletin Change PT 7314 Exercise Physiology-**APPROVED**  
Bulletin Change PT 8151 Research II-**APPROVED**  
Bulletin Change PT 8245 Musculoskeletal I-**APPROVED**  
Bulletin Change PT 8352 Health and Wellness-**APPROVED**  
Bulletin Change PT 8585 Clinical Education V-**APPROVED**  
Bulletin Change PT 8685 Clinical Education VI-**APPROVED**  
Bulletin Change PT 8754 Neuromuscular III-**APPROVED**  
Bulletin Change PT7832 Clinical Education II-**APPROVED**
5. Deletion  
BIO 6362 and 6372 deletions-**APPROVED**  
SCOM 6223 Applied Communication Research deletion-**APPROVED**

**New Program Proposal-Bulletin Change Transmittal Form**

**Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)

**New Program** (The following critical elements are taken directly from the Arkansas Department of Higher Education's "Criteria and Procedures for Preparing Proposals for New Programs".) Please complete the following and attach a copy of the catalogue page(s) showing what changes are necessary.

Department Curriculum Committee Chair	Date	COPE Chair (if applicable)	Date
Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

<b>1. Proposed Program Title</b>	Master of Science in Engineering (MSE)										
<b>2. CIP Code Requested</b>	14.0101										
<b>3. Contact Person</b>	<table> <tr> <td>Name</td> <td>Dr. David Beasley, Dean</td> </tr> <tr> <td>Name of Institution</td> <td>Arkansas State University -Jonesboro</td> </tr> <tr> <td>Address</td> <td>College of Engineering Arkansas State University P.O. Box 1740, State University, AR 72467</td> </tr> <tr> <td>E-mail Address</td> <td><a href="mailto:dbbeasley@astate.edu">dbbeasley@astate.edu</a></td> </tr> <tr> <td>Phone Number</td> <td>870.972.2958</td> </tr> </table>	Name	Dr. David Beasley, Dean	Name of Institution	Arkansas State University -Jonesboro	Address	College of Engineering Arkansas State University P.O. Box 1740, State University, AR 72467	E-mail Address	<a href="mailto:dbbeasley@astate.edu">dbbeasley@astate.edu</a>	Phone Number	870.972.2958
Name	Dr. David Beasley, Dean										
Name of Institution	Arkansas State University -Jonesboro										
Address	College of Engineering Arkansas State University P.O. Box 1740, State University, AR 72467										
E-mail Address	<a href="mailto:dbbeasley@astate.edu">dbbeasley@astate.edu</a>										
Phone Number	870.972.2958										
<b>4. Proposed Starting Date</b>	August 15, 2012										
<b>5. Program Summary</b>	<p>This proposal is to establish a new Master of Science in Engineering (MSE) graduate program within the College of Engineering at Arkansas State University (ASU) - Jonesboro. Engineering programs at ASU have evolved significantly from their beginnings as an agricultural engineering program in the 1960s and the later establishment of the Bachelor of Science in Engineering program in 1982/1983. Additional recent developments, including the establishment of three new undergraduate degrees (Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering) and one graduate degree (Master of Engineering Management) in 2008/2009, have created a fertile ground for additional momentum and synergy in academia, research, and industry, and should have a positive impact on Arkansas' economic development.</p> <p>The ASU College of Engineering is poised to initiate an expanded engineering graduate program that will build upon ASU's tradition and existing strengths in engineering education and research. The ASU MSE program will enable engineering graduate students to enhance their investigation and problem-solving skills through the application of advanced engineering principles and methods in original research and development activities. The ASU MSE program will provide outstanding student-centered instruction, learning, and research and scholarship opportunities to serve the community, state, and nation, and further enhance ASU's recognition as a comprehensive research-oriented university.</p>										

The goal of the ASU MSE program is to utilize fundamental science and technology in order to enhance the efficient and sustainable use of resources and to integrate research and teaching to promote cross-disciplinary interactions between university and industry. Applied engineering and state-of-the-art technology will form our core identity as a scientific institution and will offer students hands-on experiences in solving engineering problems.

Admission to graduate study in the MSE program is granted to qualified applicants who have an undergraduate GPA of at least 2.75 on a 4.00 scale and a bachelor's degree in engineering. Applicants must submit their GRE score and the minimum combined Verbal and Quantitative score must be 1,000 (paper-based test) or an equivalent score on the computerized test. All international applicants will be required to provide English scores: 550 on the paper-based or 79 on the internet-based Test of English as a Foreign Language (TOEFL) or a score of 6 on the International English Language Testing System (IELTS) exam. Reference and letter of intent requirements will part of the online application process. Admittance into the MSE program will be contingent upon acceptance of the applicant by an advisor and the availability of funds for the proposed research.

The graduate curriculum consists of nine newly developed 6000 level graduate-only courses, five existing 6000 level graduate-only courses, and eighteen existing 5000 level dual-purpose courses. The minimum number of semester credit hours is 30. Students in the MSE program will be required to complete four core courses from the major field body of knowledge for 12 semester credit hours, a minimum of two 6000 level graduate engineering elective courses for 6 credit hours, two additional approved graduate elective courses for 6 credit hours, and two semesters of thesis research for 6 credit hours. The courses will be taught by new and existing faculty members in the College of Engineering.

Budget support will be required to facilitate the MSE program for three years, which has been allocated to salary, instrumentation, library, office supply, and travel. An administrative specialist will be needed to build and operate online application process and manage the operation of the program. The administrative specialist will also manage operations in the companion Master of Engineering Management program. New equipment will be required to facilitate an innovative engineering discipline course to provide students with actual hands-on experiences on advanced direct and indirect experimental techniques. Library, office supplies, and travel costs, will be requested to assist the program. Funding sources consist of revenue from MSE student tuition, new state general revenue, external sources, and library allocations. Extra monetary support, primarily for joint research/teaching equipment, is and will be available from extramural research funds.

The Dean of the College of Engineering administrates the MSE program as Program Director with significant support provided by a Program Committee and an External Advisory Committee.

No similar program exists in northeast and eastern Arkansas, as Arkansas has few universities offering Master of Science degrees in Engineering, e.g., University of Arkansas at Fayetteville, University of Arkansas at Little Rock, and Arkansas Tech University at Russellville, which are all located in central and western Arkansas.

List of existing degree programs that support the proposed program:

- Bachelor of Science in Engineering (BSE)
- Bachelor of Science in Civil Engineering (BSCE)
- Bachelor of Science in Electrical Engineering (BSEE)
- Bachelor of Science in Mechanical Engineering (BSME)
- Master of Engineering Management (MEM)

## 6. Need for the Program

The state of Arkansas currently stands at the threshold of a knowledge-based economy. Arkansas has been making progress, but most states are focused on investing heavily and nurturing key institutions to improve their position in the knowledge-based economy. Therefore, it is necessary to implement both incremental improvements and dramatic change to lift its position and begin to close the gap. In order to embrace knowledge-based industries, Arkansas needs to attract and grow its knowledge-based assets (e.g. highly educated workers, research facilities, and entrepreneurial startups) and leverage them for economic development [1]. Table 1 shows Arkansas' relative position in human capital investment with respect to all states in the country.

**Table 1. Arkansas Rankings in Human Capital Investment<sup>1</sup>**

	Human Capital Investment Component	Rank
1	% Pop. 25+ With Bachelor's Degree or Greater	49
2	% of Pop. 25+ With Advanced Degree or Greater	50
3	% of Pop. 25+ With PhD Degree	38
4	# of Grad Students in Sci & Eng (25-34 Age Cohort)	46
5	State Spending on Student Aid - \$ per capita	20
6	Average Verbal SAT Scores	14
7	Average Math SAT Scores	15
8	Average ACT Scores	38
9	State Appropriations for Higher Educ - \$ per capita	21
10	% Change in State Appropriation for Higher Education	35
11	Number of Doctoral Scientists – per capita	49
12	Number of Doctoral Engineer – per capita	46
13	# Sci & Eng Doctorates Awarded (25 – 34 Age Cohort)	43
14	# Sci & Eng Post-doctorates (25 – 34 Age Cohort)	38
15	% Bachelor's Degree Granted in Sci & Eng	28
16	% Work Force w/Recent Bachelor's Degree in Sci or Eng	50
17	% Work Force w/Recent Master's Degree in Sci or Eng	43
18	% Work Force w/Recent PhD in Sci or Eng	42
19	Percent of Households with Computers	47
20	Percent of Households with Internet Access	49

<sup>1</sup> Arkansas's Position in the Knowledge-based Economy, Milken Institute, 2004  
Revised 9/9/04

The table shows Arkansas ranked very low (46<sup>th</sup> in the nation) on Number of Doctoral Engineers – per capita, while SAT and ACT scores are ranked relatively higher. It should be noted that the test-takers are more likely to leave the state for higher education in engineering than to remain. Providing additional opportunities for graduate students in science and engineering are important to a state because it serves as a means to enhance the future of the science and engineering community in a particular state. Graduate programs in engineering also act as one of the most effective means of attracting high-tech companies to Arkansas.

The College of Engineering at ASU has continued to grow to meet the demand for high quality engineering in Arkansas State. To significantly expand R&D capabilities and initiate a research-based engineering graduate program at ASU, the Arkansas Science and Technology Authority (ASTA) provided funds to establish the Center for Efficient and Sustainable Use of Resources (CESUR) at ASU-Jonesboro in 2010. To achieve the objectives, the CESUR has developed three missions:

- R&D on efficiency improvement and sustainability of energy resources through partnerships with government, regional industries and universities,
- Technical support for regional industries' technical innovation through technology transfer and industrial application of developed technologies, and
- Providing industry-oriented training to students to help create and support knowledge-based jobs through graduate program.

The proposed MSE program will enable graduate students at the CESUR and MSE program to integrate their learning and R&D activities for interdisciplinary results. The core faculty members have demonstrated capabilities including, but not limited to: 1) experimental/computational thermodynamics, heat/mass transfer, and thermal fluid engineering for advanced power plant technology applications, 2) electromagnetic theory and optics, laser printer technology, radar cross section, applied mathematics, thin film semiconductor materials, and electromagnetic compatibility, 3) renewable energy, devices for energy harvesting, small scale sensors for bio- and medical application, and thin film secondary cells using nano- and micro-scale fabrication technology.

A number of faculty members in engineering have been associated with the Environmental Science program (EVS) at ASU and have mentored graduate students for their R&D, but the College of Engineering needs to develop its own graduate program. Successful performance and completion of R&D requires a strong, focused graduate program and infrastructure.

The new MSE program at ASU will benefit the state of Arkansas and its residents in many ways. ASU needs an MSE program to incorporate education with interdisciplinary research and will provide diverse cross-disciplinary research experiences to enhance graduate students' competitiveness in engineering areas. All faculty members in the College of Engineering at ASU envision that the MSE program will produce invaluable professionals who will yield consistently exceptional outcomes nationally and internationally.

## 7. Curriculum Outline

### Program of Study

The number of semester credit hours for the M.S. degree will be 30. Students will be required to complete four core courses from the major field body of knowledge for 12 semester credit hours, a minimum of two 6000 level graduate engineering elective courses for 6 credit hours, two additional approved graduate elective courses for 6 credit hours, and two semesters of thesis research for 6 credit hours. Of the 12 credit hours of electives, a minimum of 6 credit hours must be chosen from the 6000 level courses in Table 2, and the remaining 6 credit hours may be chosen from the existing graduate level engineering classes at Table 3. Each student pursuing thesis-based MSE degree will be required to complete and defend a thesis of original research in engineering areas under guidance of a selected advisor and thesis committee.

**Table 2: Proposed core and engineering elective courses**

Core Courses (12 Credit Hours Required)		
Course Number	Name	Credits
ENGR 6013	Advanced Experimental Methods for Engineers	3
ENGR 6023	Advanced Engineering Mathematics	3
ENGR 6033	Micro and Nanotechnology Manufacturing	3
ENGR 6043	Applied Probability, Estimation, and Detection	3
Engineering Elective Courses (6 Credit Hours Required)		
Course Number	Name	Credits
ENGR 6113	Materials Science and Engineering	3
ENGR 6123	Engineering Optimization	3
ENGR 6133	Engineering Electrodynamics	3
ENGR 6143	Advanced Heat and Mass Transfer	3
ENGR 6153	Advanced Fluid Mechanics	3

**Table 3. Existing engineering courses that may be used toward 6 hours of electives**

Courses (6 Credit Hours Maximum)		
Course Number	Name	Credits
CE 5223	Transportation Engineering	3
CE 5233	Foundation Engineering	3
CE 5243	Reinforced Concrete Design	3
CE 5253	Soil Mechanics	3
CE 5263	Water and Waste Treatment	3
CE 5283	Structural Steel Design	3
EE 5303	Engineering Fields and Waves II	3
EE 5313	Control Systems	3
EE 5323	Electrical Machinery	3

EE 5344	Microprocessor and PLC Applications	3
EE 5353	Power Systems	3
EE 5373	Electronics II	3
ME 5503	Fluid and Thermal Energy Systems	3
ME 5523	Introduction to Finite Element Analysis	3
ME 5543	Machine Design	3
ME 5553	Heat Transfer	3
ME 5583	Energy Conversion	3
ME 5593	Design of Heating, Ventilation, and Air-Conditioning Systems	3
EGRM 6003	Engineering Statistics	3
EGRM 6013	Quality Control Improvement	3
EGRM 6023	Engineering Management I	3
EGRM 6033	Engineering Management II	3
EGRM 6043	Operations Research	3

\* Other appropriate science courses (math, physics, chemistry, biology, etc.) can also be used for the 6 hours of electives.

### Course Sequence

The proposed curriculum is structured as a four semester program.

#### Fall Semester, Year 1 (9 credit hours)

ENGR 6013 Advanced Experimental Methods for Engineers (3)  
 ENGR 6023 Advanced Engineering Mathematics (3)  
 ENGR 6033 Micro and Nanotechnology Manufacturing (3)

#### Spring Semester, Year 1 (9 credit hours)

ENGR 6043 Applied Probability, Estimation, and Detection (3)  
 Engineering Electives (6)

#### Fall Semester, Year 2 (9 credit hours)

Electives (6)  
 Thesis Research (3)

#### Spring Semester, Year 2 (3 credit hours)

Thesis Research (3)

### New Courses

**ENGR 6013. Advanced Experimental Methods for Engineers:** Fundamental through advanced indirect and direct experimental techniques. Topics include fundamental laboratory instruments, Design of Experiment, computer interfacing, photography and basic optics, image processing, high speed motion analysis, radiation detectors, monochromators, flame emission spectroscopy, flame emission scanning, flame probe measurement and phase transition characteristics measurement.

**ENGR 6023. Advanced Engineering Mathematics:** Advanced analytical techniques for the solution of engineering problems including applications in vibrations, electricity and magnetism, optics, and thermodynamics. Topics include introduction to modeling, linear algebra, tensor calculus, linear and nonlinear system solution, wave equations, Laplace equation, boundary value problems, transforms, and complex analysis.

**ENGR 6033. Micro and Nanotechnology Manufacturing:** Advanced manufacturing technology based on the integration of science, engineering, and technology at the length scale of micrometers and nanometers. Topics include micromachining, MEMS, deposition, nanosciences, nanophotonics, and nanofabrication.

**ENGR 6043. Applied Probability, Estimation, and Detection:** Application of probability to the analysis of engineering systems with inherent randomness to achieve efficient use of information in engineering analysis. Topics include random variables, statistics, probability density functions, noise, nonrandom parameter estimation, bounds, Bayesian estimation, detection, and filters.

**ENGR 6113. Materials Science and Engineering:** Advanced concepts in materials science and engineering to relate between material properties (strength, magnetism, thermal expansion) and microstructures (crystal/dislocations/grain/precipitate/composite structures), and to emphasis on the lattice dynamics and electrical, semiconductor, optical, and dielectric properties of materials from the point of view of modern solid state physics or quantum mechanics.

**ENGR 6123. Engineering Optimization:** Application of various optimization techniques to seek optimum value and design under specific requirements. Topics include set-up numerical formulations and algorithms, introduction of axiomatic design and design of experimental methods, and application to practical engineering problems.

**ENGR 6133. Engineering Electrodynamics:** Dynamic theory of material interactions with electromagnetic fields based on conservation of energy and momentum with emphasis on modern applications of light-matter interactions. Topics include conservation laws in mechanics, fluids, and electromagnetics; statics, quasi-statics, and electromagnetic waves; dispersion relations; and optical manipulation.

**ENGR 6143. Advanced Heat and Mass Transfer:** Advanced topics in heat and mass transfer that are representative of real engineering problems with solution techniques. Topics include governing equations, conduction, convection, radiation, phase transitions, diffusive mass transfer, solution techniques for FDM (Finite Differencing Method) and PDE (Partial Differential Equation) in heat and mass transfer.

**ENGR 6153. Advanced Fluid Mechanics:** Advanced fluid mechanics from the fundamentals to turbulence. Topics include vector analysis, kinematics, control volume theorem, continuity, momentum, Navier-Stokes, Euler and Bernoulli equations, potential flow, circulation, vorticity, similarity, boundary layers approximation, and turbulence.

## Admission to Program

Each applicant must have an undergraduate GPA of at least 2.75 on a 4.00 scale and a bachelor's degree in engineering. Applicants that do not have a bachelor's degree in engineering, for example those having a bachelor's degree in physics, or those having an undergraduate GPA below 2.75, will be considered on a case-by-case basis and must show equivalent experience and training and have completed the required prerequisites for the courses. Applicants must present Graduate Record Examination (GRE) scores for the Verbal, Analytical, and Quantitative tests. The minimum combined Verbal and Quantitative scores must be 1000 for the paper test or the equivalent score from the computerized GRE. Applicants will be responsible for the Graduate School's application fee. Admission of international students will require additional proof of English proficiency of the scores: 550 on the paper-based or 79 on the internet-based Test of English as a Foreign Language (TOEFL) or a score of 6 on the International English Language Testing System (IELTS) exam as outlined in the ASU Graduate Handbook<sup>2</sup>. References and a letter of intent will be also required for admission. Admittance into the MSE program will be contingent upon acceptance of the applicant by an advisor and the availability of funds for the proposed research.

## 8. Faculty

A list of names and credentials of all current faculty in the proposed program is shown below.

### Core Engineering Graduate Faculty (alphabetic order)

- Jeong, Kwangkook, Ph.D., Assistant Professor of Mechanical Engineering  
Ph.D., Mechanical Engineering and Mechanics, Lehigh University, 2009  
M.S., Mechanical Engineering, KAIST, South Korea, 1996  
B.S., Mechanical Engineering, Ajou University, South Korea, 1994.  
Academic Experience: 2 years, Industry Experience: 10 years
- Kemp, Brandon, Ph.D., Assistant Professor of Electrical Engineering  
Ph.D., Electrical Engineering, Massachusetts Institute of Technology, 2007  
M.S., Electrical Engineering, University of Missouri – Rolla, 1998  
B.S., Engineering, Arkansas State University, 1997  
Academic Experience: 1 year, Industry Experience: 8 years
- Seok, Ilwoo, Ph.D., Assistant Professor of Mechanical Engineering  
Ph.D., Mechanical Engineering, University of California, Los Angeles, 2010  
M.S., Mechanical Engineering, Hanyang University, South Korea, 1999  
B.S., Mechanical Engineering, Hanyang University, South Korea, 1997  
Academic Experience: 1 year, Industry Experience: 6 years

### Engineering Administration

- David Beasley, Ph. D. (Purdue University), Dean of the College of Engineering

### Additional Engineering Graduate Faculty

- Clifft, Rick, Ph.D. (University of Houston), Director of Engineering Management, Professor of Civil Engineering
- Edgar, Brad, Ph.D. (University of Kansas), Director and Associate Professor of Mechanical Engineering
- Elsayed, Ashraf, Ph.D. (University of Alabama), Assistant Professor of Civil Engineering
- Engelken, Robert, Ph.D. (University of Missouri – Rolla), Professor of Electrical Engineering
- Haran, Shivan, Ph.D. (University of Houston), Assistant Professor of Mechanical Engineering
- Hwang, Yeonsang Ph.D. (University of Colorado), Assistant Professor of Civil Engineering
- Kher, Shubhalaxmi, Ph.D. (Devi Ahilya University), Assistant Professor of Electrical Engineering
- Mixon, Paul, Ph.D. (University of Memphis), Director and Associate Professor of Electrical Engineering
- Parsons, Tom, Ph.D. (West Virginia University), Director and Professor of Civil Engineering
- Sherman, Paul, Ph.D. (Oakland University), Associate Professor of Mechanical Engineering

## 9. Description of Resources

**Instructional Resources:** The Master of Science in Engineering will utilize the current classrooms and equipment located in the Laboratory Science West, Agriculture, and Arkansas Bioscience Institute (ABI) buildings to provide instructional and research opportunities to students in the MSE program. The College of Engineering currently occupies approximately 30,000 sq. ft. of space in the three buildings for instruction, administration, faculty/staff offices, laboratory work, and research. There are seven classrooms and 14 labs totaling almost 19,000 sq. ft., which are utilized exclusively by the Engineering Program for undergraduate/graduate formal lecture and laboratory classes. Most of the classrooms are fully-equipped with ceiling-mounted projectors, motorized/pull-down projection screens, and teacher stations.

Current undergraduate engineering classes are mainly scheduled during the morning hours, so no scheduling problems are anticipated for the new MS Engineering classes which will be scheduled in the afternoons to the early evening hours.

The MS Engineering students will be allowed to use ASU shared facilities. ASU-ABI includes a dedicated clean room, thermal chamber, chemical storage, and variety of analytical instruments of SEM microscopy and confocal imaging. The CESUR (Center for Efficient and Sustainable Use of Resources) in ABI, belongs to the College of Engineering, and supports renewable energy research ranging from micro-and nano-scale manufacturing and numerical analysis to power plant design and simulation. The Center houses significant manufacturing and analytical equipment such as thermal energy storage simulator, high temperature thermal chambers, spin coater, potentiostat, microscope, source meter, viscometer, fume hood, gas analyzer, and anti-shock optic table, etc. All of this equipment will be available to MSE students for their research.

The College of Engineering employs two full-time technicians to provide tech support for computing and equipment. They also manage the machine shop welding and machining equipment and a 3-axis CNC vertical mill. In addition, part-time student help augments the technician staff.

<sup>2</sup> Arkansas State University Graduate Bulletin, ASU, 2011.  
Revised 9/9/04

**Library Resources:** Existing library resources have been supporting ongoing MS programs in engineering management, agriculture, biology, sciences, and mathematics in addition to Ph.D. programs in environmental sciences and molecular biosciences.

A keyword search of the Dean B. Ellis Library catalog, using the word *engineering*, returns 6,437 book titles, with 2,067 of those titles being e-books. Of those titles, 428 were published within the last 3 years, and 2,422 were published within the last 10 years. Broader keyword searches for *STEM (Science, Technology, Engineering, and Mathematics)* return in excess of 7,000 title hits each, with approximately 10% of the titles having been published within the last 3 years.

The Dean B. Ellis Library has subscription based access to several thousand current journals and periodicals, with hundreds of these journals having possible subject-specific relevancy to students in a Master of Science in Engineering degree program.

More than 100 online databases are also being covered for all academic disciplines. In addition to major full-text databases with relevancy for all graduate students, such as *Dissertations & Theses* and *LexisNexis Academic*, the Library also maintains subscriptions to relevant subject-specific databases, including *International Engineering Abstract*, Transactions for all three relevant disciplines (CE, EE, and ME), *IEEE proceeding*, *Web of Science*, and more than 300 full-text journals through *OvidSP*, *ScienceDirect*, and *Wiley InterScience*. A full list of all subscribed Library databases may be found at: <http://www.library.astate.edu/databases/journalDB/DatabaseListing.cfm>

All of the Library's online subscribed content is available to students and faculty off-campus via access through the library's proxy server.

Unlimited interlibrary loan services to faculty, staff, and students are subsidized by the Dean B. Ellis Library, so that virtually 100% of all interlibrary loan requests are completed at no cost to faculty, staff, or students. This assures faculty and students unfettered access to the resources they need, even if they are neither held inside the Library nor available through our subscribed online content. Approximately 98% of all requested journal articles are delivered electronically, and the majority of these articles are available within three days of request submission.

Through the Library's formula-based allocations to all academic departments, faculty select books, journals, and databases for purchase or subscription in their areas of subject expertise. Graduate student credit hour production, graduate degrees awarded, and the number of faculty in each department are some of the major factors in the allocation formula. As new programs enroll students and those students earn their advanced degrees, the Library collection development allocation to the department which houses that degree program will increase proportionally.

**Computing Resources:** Each faculty and staff has Pentium 4 (Core 2 processor) or better laptop or desktop systems. The College of Engineering has over 100 computer systems and 14 shared printers located throughout the facilities for student use. Software required for engineering students such as Maple, Minitab, Microsoft Office, Matlab/Comsol, Photoshop, LabView, SolidWorks, Blackboard, and Autodesk are being installed and available upon request to the computing technician. To maximize visual effects in class materials, every classroom has the high speed computer system which is designated to connection with projector system, or teacher station.

One room, LSW 234, is a dedicated student plaza and is equipped with 18 computer systems, large study tables, and white board. Through the Blackboard Academic Suite system, available universally at ASU-J, course materials, communications, and course management are strengthened significantly for both students and faculty. Currently, 36 computer systems (including 18 in the student plaza) are being upgraded with new i7 quad processor systems. In addition, The HPC (High Performance Computing) system, partially funded by the College of Engineering, is also available as the terminal computer to solve large scale, complex structural problems.

Arkansas State University has a backbone infrastructure that is capable of providing 10 Gigabit data rates with the state regional optical network ARE-ON. High speed, wireless network service is available to all students throughout the ASU campus. ITS (Information and Technology Services), which is a service organization of ASU, provides services to the University ranging from the network, communication, safety system, to all of the information and technology supports. Many useful software packages, such as operating systems of Windows or Mac, Microsoft Office, and Anti-virus vaccine are available for download through ITS websites.

## 10. New Program Costs

To support the MSE program and facilitate R&D infrastructure, new funds are required for the first three years as shown in Table 4.

**Table 4. Resource requirements for proposed MSE program**

<b>Resource Requirements</b>	<b>1<sup>st</sup> Year (in dollars)</b>	<b>2<sup>nd</sup> Year (in dollars)</b>	<b>3<sup>rd</sup> Year (in dollars)</b>
Staff (Number) (1)			
Administrative	29,700	29,700	29,700
Full-time Faculty	-	-	-
Part-time Faculty	-	-	-
Graduate Assistants	40,434	41,242	42,067
Equipment & Instructional Materials (2)	81,000	10,000	5,000
Library	9,000	9,000	9,000
Other Support Services			
Supplies/Printing	5,000	5,000	5,000
Faculty Development/Travel	12,000	9,000	6,000
Distance Technology	-	-	-
Other	-	-	-
<b>Total</b>	<b>177,134</b>	<b>103,942</b>	<b>96,767</b>

**(1) Salaries, Wages and Fringe:** 12 months support based on \$22,000/year and fringe for three years is requested for an administrative staff person to manage the MSE and MEM graduate programs. Funds are also requested to support the salary and tuition of three graduate students for first three years.

**(2) Equipment & Instructional Materials:** No educational equipment is required for MSE program except the ENGR 6013 Advanced Experimental Methods for Engineers. To facilitate the core course, instrumentation needs to be acquired to cover fundamental methodologies of engineering measurements thru advanced experimental techniques. The needed equipment is listed in Table 5.

**Table 5. List of educational equipment for proposed MSE program**

Year	Name	Specifications	Unit Price
1 <sup>st</sup> Year	HeNe Laser	Wavelength : 633nm Output power : 35.0mW Beam diameter : 0.98mm Polarization : 500:1	\$7,000
	Monochromator	Type : 1/4m monochromator Focal length : 260mm No. of gratings : 3 F/# : F/3.9 Wavelength accuracy : 0.35nm Communication : RS232 and IEEE-488	\$10,000
	Spectrograph	Type : 1/4m spectrograph Focal length : 260mm F/# : F/3.9 Wavelength accuracy : 0.35nm Wavelength precision : 0.08nm Usable wavelength range : 180nm – 24um Communication : USB2.0	\$9,000
	IR thermometer	Temperature span : 100-2500F Wavelength : 4.8-5.3um	\$17,000
	Data Acquisition System	Signal : 64AI, 2MS/s single-channel T/C : 64channels, 80S/s LabVIEW software	\$28,000
	Materials	Lenses, choppers, polarizer, and mirrors, etc	\$10,000
	Subtotal of 1 <sup>st</sup> Year		
2 <sup>nd</sup> Year	Materials	Lenses, choppers, polarizer, and mirrors, etc	\$10,000
	Subtotal of 2 <sup>nd</sup> Year		
3 <sup>rd</sup> Year	Materials	Lenses, choppers, polarizer, and mirrors, etc	\$5,000
	Subtotal of 3 <sup>rd</sup> Year		
Total			<b>\$96,000</b>

The objective of ENGR 6013 is to provide students with actual hands-on experiences on direct and indirect experimental techniques for the measurement of phase transition characteristics, mixing enthalpy, heat/mass transfer, combustion, and fluid mechanics, etc. This course will deal with 1) fundamental laboratory instruments, Design of Experiment, and computer interfacing, 2) photography and basic optics, 3) image processing, 4) high speed motion analysis, 5) radiation detectors, 6) monochromators, 7) flame emission spectroscopy, 8) flame emission scanning, 9) flame probe measurement, 10) mixing enthalpy measurement, 11) phase transition characteristics measurement, and 12) condensation and evaporation. The course instructor, Dr. Jeong will collaborate with Drs. K. Ha at KAERI (Korea Atomic Energy Research Institute) and L. Wright at Baylor University to enhance this course to an innovative engineering discipline. Financial supports from infrastructural or academic capital funds will be needed to acquire the instructional equipment and materials.

**Library:** Current existing library allocation for the College of Engineering needs to be continued and increased to subscribe more journals and references to support the MSE program.

**Other Support Services:** Supplies and printing services need to be supported with \$5,000/year for three years to facilitate the MSE program. Financial support from infrastructure or academic capital funds will be needed.

**11. Sources of Funding**

The estimated sources of funding for the new program for the first three years are shown in Table 6.

**Table 6. Planned funding sources for proposed MSE program**

Planned Funding Sources	1 <sup>st</sup> Year	2 <sup>nd</sup> Year	3 <sup>rd</sup> Year
	(in dollars)	(in dollars)	(in dollars)
New Student Tuition	48,384	80,640	104,832
New State General Revenue	-	48,384	80,640
Redistribution of State General Revenue	-	-	-
External Grant/Contract	-	-	-
Library allocation	9,000	9,000	9,000
Total	57,384	138,024	194,472

The program needs to receive the FTE (Full-Time Equivalent) tuition. The program will be able to accommodate 8 to 12 students per year. A FTE graduate student is enrolled in 30 student semester credit academic hours (SSCH). Based on the individual costs for the 30 SSCH with 2011/12 academic year basis, tuition (\$224 per SSCH) income per one new graduate student would range from \$6,720 (in-state) to \$13,440 (out-of-state). We project the student enrollment with 8 (all for 1<sup>st</sup> year), 16 (8 for 1<sup>st</sup> year and 8 for 2<sup>nd</sup> year), and 20 (12 for 1<sup>st</sup> year and 8 for 2<sup>nd</sup> year) students for the first, second, and third years, respectively. With the assumption that half of enrollment is out-of state, tuition income per cohort for 2<sup>nd</sup> year is obtained as below:

$$\text{For 2}^{\text{nd}} \text{ year; } (\# \text{ of } 1^{\text{st}} \text{ year students} \times 18 \text{ SSCH} + \# \text{ of } 2^{\text{nd}} \text{ year students} \times 12 \text{ SSCH}) \times \$224 \times 1.5 = \$ 80,640$$



## 12. Organizational Chart Reflecting New Program

The new Master of Science in Engineering will be housed in the College of Engineering. The Dean of the College of Engineering will administer the program as the Program Director with support provided by a Program Committee and an External Advisory Committee, as shown in Figure 1.

The Program Committee will consist of four participating faculty in the College of Engineering appointed to staggered 3-year terms by the Program Director. The Program Committee will work with the Program Director to provide direction and support for the program, including development and implementation of all policies pertaining to the program (e.g. governing student committees, students, curriculum, admissions, student recruit and retention, examinations, student progression, toward degree completion, instruction, internship, etc.).

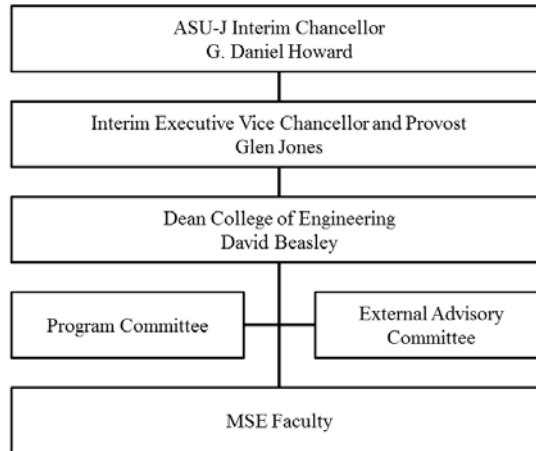


Figure 1. Organizational chart for proposed MSE program

The External Advisory Committee will consist of business and industry leaders, researchers and academicians from participating industry, research units, and academic institutions. This Advisory Committee will work with the Program Director and Program Committee to evaluate program curriculum and content. These individuals will provide insight as to present and future industry needs.

## 13. Specialized Requirements

None

## 14. Board of Trustees Approval

December 2, 2011

## 15. Desegregation

The proposed ASU MSE program will recruit talented students in engineering from across the U.S. and around the world. ASU is committed to recruiting qualified applicants from traditional and non-traditional student populations for every educational program and degree. The location of ASU in the Lower Mississippi River Delta makes it readily accessible to the largest concentration of African American population in the state of Arkansas. The lack of programs in the vicinity has limited educational opportunities for this population. As several minority faculty members have been recruited, it is expected to add more minority students. The administration at ASU is committed to improving opportunities for disadvantaged, low income, and first generation students during their undergraduate and graduate careers. ASU has a proven record of providing undergraduate education to under-represented minority students. 15.9% of the ASU student body is African American, which is higher than the state-wide percentage of 15.4% African American.<sup>3,4</sup> The Lower Mississippi Delta Region, including 42 counties in Arkansas (an EPSCoR state), is one of the poorest areas in the country, affected by widespread poverty and a host of social problems.

## 16. How will this program be assessed?

The goal of the proposed Master of Science in Engineering program is to provide an educational experience focusing on the integration of research and technology development that will allow graduates to be successful in deriving solutions to society's most challenging technical problems. To achieve this goal, the proposed program objectives are to discover new scientific principles, apply novel engineering solutions, and develop cutting-edge technology toward achieving efficient and sustainable use of resources; to integrate cross-disciplinary research and teaching that produces engineering professionals equipped to take on the more complex problems that face our state and country; and to establish and grow industry-university partnerships that will drive toward and prepare this region for a diverse, knowledge-based economy.

Specific program outcomes are listed below. Program graduates will have:

1. Knowledge of advanced experimental methods and the ability to design experiments and collect data;
2. A good understanding of statistical concepts and an ability to apply this knowledge to achieve engineering solutions that most efficiently use information and resources;
3. A practical knowledge of fabrication and manufacturing techniques, specifically at the micro- and nano-scales;
4. An ability to apply advanced mathematical concepts to model physical systems and engineering processes to drive knowledge based design;
5. An advanced, cross-disciplinary understanding of engineering sciences, and an ability to relate physical concepts from multiple engineering disciplines;

<sup>3</sup> Arkansas State University Factbook, ASU, 2011

<sup>4</sup> Arkansas, <http://en.wikipedia.org/wiki/Arkansas>, Wikipedia, 2011

6. An ability to identify critical issues, formulate realistic solutions, evaluate alternatives, and carry out independent research to provide novel solutions to technical problems; and
7. A demonstrated ability to make novel, significant contributions to the scientific and engineering body of knowledge.

The four core courses in the curriculum have been separately designed to develop the student's knowledge and abilities so as to achieve the desired outcomes in 1-4. The requirement of six semester hours of 6000 level engineering graduate coursework and additional six semester hours of elective coursework aims to produce outcome 5. Outcome 6 is addressed in the 6 hours of supervised thesis research. Outcome 7 is addressed by requiring each program graduate to write and defend a research thesis. Each program outcome will be assessed using surveys, examinations and performance evaluations of students. Performance targets will be established for each outcome indicator so that evaluations can be made to determine if the outcomes are being achieved or if modifications are needed to the curriculum and/or delivery methods.

**17. Does this affect other programs? If yes, how?**

Yes. The MEM program in Engineering should see increased enrollment in a number of the EGRM courses. Additionally, courses in the CE, EE, and ME sequences which carry dual-level designations will also see increased enrollment in at least some of those courses. These are all positive consequences of establishing the MSE program. Since MSE students will take 6 hours of graduate-level electives, other programs offering technical courses (e.g., math, physics, chemistry, biology, computer science, etc.) will potentially see increased enrollment in some courses.

## New/Special Course Proposal-Bulletin Change Transmittal Form

- Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.  
 **Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)

**New Course** or  **Special Course (Check one box)**

Please complete the following and attach a copy of the catalogue page(s) showing what changes are necessary.

Department Curriculum Committee Chair	Date	COPE Chair (if applicable)	Date
		Professional Education Head of Unit (If applicable)	Date
Department Chair	Date		
		General Education Committee Chair (If applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

<b>1. Proposed Course Prefix and Number</b> POSC 5233
<b>2. Course Title – if title is more than 30 character (including spaces), provide short title to be used on transcripts.</b>  Life sex death or Body politics in comparative perspective / <i>Short title: Body politics comp perspective</i>
<b>3. Will this course be lecture only, lab only, lecture and lab, activity, dissertation, experiential learning, independent study, internship, performance, practicum, recitation, seminar,...? Please choose one.</b>  Seminar
<b>4. What is the grade type?</b>  Standard letter
<b>5. Is this course dual listed (undergraduate/graduate)?</b>  Yes, with POSC 4233
<b>6. Is this course cross listed?</b>  No
<b>7. Brief course description (40 words or less) as it should appear in the bulletin.</b>  A cross-national study of policy and policy change with respect to state regulation of the body.
<b>8. Indicate all prerequisites and if this course is restricted to a specific major, which major.</b>  <b>a. Are there any prerequisites?</b> Completion of POSC 6003 or permission of instructor.  <b>b. Why?</b> Undertaking multivariate analyses of World Values Survey data requires graduate quantitative training.

<p><b>9. Course frequency (e.g. Fall, Spring, Summer). Not applicable to Graduate courses.</b></p> <p>NA</p>
<p><b>10. Contact Person</b> (Name, Name of Institution, Address, Email Address, Phone Number)</p> <p>David Levenbach, Arkansas State University, POB 1750, 72467, <a href="mailto:fidel@astate.edu">fidel@astate.edu</a>, x-2147, 413.559.1533</p>
<p><b>11. Proposed Starting Term/Year</b></p> <p>Spring 2012</p>
<p><b>12. Is this course in support of a new program? If yes, what program?</b></p> <p>No</p>
<p><b>13. Does this course replace a course being deleted?</b></p> <p>No</p> <p><b>c. Has this course number been used in the past?</b></p> <p>No</p>
<p><b>14. Does this course affect another program? If yes, provide contact information from the Dean, Department Head, and/or Program Director whose area this affects.</b></p> <p>No</p>
<p><b>15. Justification should include:</b></p> <p><b>A. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain).</b></p> <p>The course is designed to provide training in empirical comparative analysis. Students will consider and test explanations for policymaking outcomes cross-nationally and over time. They will improve their skills in data-gathering and interpretation, as well as their ability to assess quantitative information, and to collaborate in investigative work, with each student contributing knowledge from idiographic research to form testable propositions that will hold cross-nationally.</p> <p><b>B. How does the course fit with the mission established by the department for the curriculum? If course is mandated by an accrediting or certifying agency, include the directive.</b></p> <p>The course advances both of the department's goals for the MA program--enhancing students' analytical skills and deepening their substantive knowledge. Students will consider the variety of competing theoretical explanations for variations in public policy and have additional practice in investigation, data analysis, and written and oral communication.</p> <p><b>C. Student population served.</b></p> <p>Principally MA students in political science, but it will also be open to other graduate students with training in quantitative analysis.</p> <p><b>D. Rationale for the level of the course (lower, upper, or graduate).</b></p> <p>Students are required to manage and make good use of the downloaded World Values Survey data set, including appropriately sophisticated multivariate analyses, so as to include a consideration of public opinion with other factors in explaining public policy. This is appropriate for graduate students.</p>
<p><b>16. Outline</b> (The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)</p> <p>The comparative study of public policymaking (1 wk)  Searching for intelligent life, sex, death: Research tricks of the trade (1 wk)  Constitutional design and policymaking (1 wk)  Normative theories of control and liberty (2 wks)  Policymaking on divorce (2 wks)  Policymaking on contraception and abortion (2 wks)</p>

Policymaking on homosexuality and same-sex marriage (2 wks)

Policymaking on recreational drug use (2 wks)

What else at the end but predicting policymaking on assisted suicide, of course? (1 wk)

**17. Course requirements** (e.g. research papers, projects, interviews, tests, etc.)

A number of reading checks; six country reports (including socioeconomic context and political structure); four policy & policymaking reports (divorce; contraception and abortion; homosexuality and gay marriage; recreational drug use), and a final essay forecasting assisted suicide policy.

**18. Special features** (e.g. labs, exhibits, site visitations, etc.)

This class is made possible by, and indeed was conceived because of, a publicly available data set, the World Values Survey, which contains public opinion data on a wide variety of political and social items, including opinions on the justifiability of divorce, abortion, homosexuality, drug use, and assisted suicide. Overall there are five waves of data, gathered at roughly five-year intervals, on over 80 countries. At least three waves of data are available for 35 countries on three of the four items on which students will report (the drug use item is less-well covered). There is at the WVS website an easy facility for students to do over-time univariate analyses of the four policy items for their country reports; the facility will also support selected bivariate analyses. White undergraduate students will be required to incorporate at least this level of analytical work so as to assess public opinion as one of the potential explanations for policy outcomes, graduate students will be required to manage and undertake appropriately sophisticated multivariate analyses of these data.

**19. Required reading**

- S. Coltrane & M. Adams. 2003. The Social Construction of the Divorce "Problem," *Family Relations* 52: 363-372.
- R. MacCoun *et al.* 1996. Assessing Alternative Drug Control Regimes, *Journal of Policy Analysis and Management* 15: 330-52.
- N. McAfee. 2009. Feminist Political Philosophy, *The Stanford Encyclopedia of Philosophy*, E.N. Zalta, ed.
- J.S. Mill. 1859. *On Liberty*. Chaps. 1, 4.
- Mooney, C.Z., ed. 2001. *The Public Clash of Private Values*. CQ Press.
- M. Rheinstein. 1953. Trends in Marriage and Divorce Law of Western Countries, *Law and Contemporary Problems* 18: 3-19.
- P. Selznick. 1987. The Idea of a Communitarian Morality, *California Law Review*, 75: 445-463.
- S. Singh, et al. 2009. *Abortion Worldwide: A Decade of Uneven Progress*. New York: Guttmacher Institute, 2009.
- Y. Yishai. 1993. Public Ideas and Public Policy: Abortion Politics in Four Democracies, *Comparative Politics* 25: 207-228.

**20. Department staffing and classroom/lab resources** (Will this require additional faculty, supplies, etc.?)

No additional personnel or resources will be needed.

**21. What is the primary goal of this course?**

Systematic analysis of competing theoretical explanations for variations in public policy and policy change.

**22. If this proposal is for a general education course, please check the primary goal this course addresses:**

**23. Considering the indicated primary goal, provide up to three outcomes that you expect of students after completion of this course. For example, what will students who meet this goal know or be able to do as a result of this course?**

**Primary Goal Outcome #1:** Students will learn to make a systematic analysis of competing theoretical explanations for variations in public policy and policy change.

**Learning Activity:** (For example, what instructional processes do you plan to use to help students reach this outcome?) Students will prepare four policy and policymaking reports throughout the term to develop and polish their skills of systematic analysis.

**Assessment Tool:** (For example, what will students demonstrate, represent, or produce to provide evidence of their learning?) Students will write a final essay in which they apply their knowledge of other policy areas (i.e., divorce, abortion/contraception, homosexuality, and recreational drug use) to make a forecast for their chosen case as to the trajectory of policy on assisted-suicide.

**From the most current electronic version of the bulletin, copy all bulletin pages that this proposal affects and paste it to the end of this proposal.**

POSC 5143 Public Opinion and Public Policy The function of public opinion in political systems, and methods for revealing public preferences; with principal focus on the U.S. case.

POSC 6113 Intergovernmental Relations A survey of federalism, grant-in-aid programs, and federal, state, local relations in the United States.

POSC 6123 Urban Politics An analysis of urban political processes and urban policy alternatives.

POSC 6133 Seminar in Political Parties and Political Behavior An analysis of selected aspects of American political parties and electoral behavior. May be repeated only once when topic changes.

POSC 6143 Seminar in American Government and Politics An examination of selected aspects of American governmental institutions and processes. May be repeated only once when topic changes.

POSC 6153 The Supreme Court, Politics and Law An analysis of the role of the Supreme Court as a political institution and its impact on public policy and the Constitution.

POSC 6173 Environmental Policy Processes Analysis of attitudes, values, processes and institutions that affect environmental policy and the environmental issues currently being faced at local, state, national and international levels.

#### Comparative Politics

POSC 5213 Politics of the Former Soviet Lands Government and politics of Russia and her neighbors, including the transition from communism and issues of war and peace between the republics of the former Soviet Union.

POSC 5223 Middle Eastern Political Systems Major Middle Eastern political systems, with concentration on their common characteristics and major differences.

**POSC 5233. Life Sex Death or Body Politics in Comparative Perspective. A cross-national study of policy and policy change with respect to state regulation of the body. Completion of POSC 6003 or permission of instructor.**

POSC 6213 Major Asian Political Systems An examination of the political institutions of selected Asian countries.

POSC 6223 Seminar in Comparative Politics A review of the theory and method of comparative political study with an analysis of governmental institutions in Western and non-Western countries.

**Bulletin Change Transmittal Form**

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**Bulletin Change**

Please attach a copy of all catalogue pages requiring editorial changes.

Department Curriculum Committee Chair	Date	COPE Chair (if applicable)	Date
Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

- 1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)  
**Tom Adams, Graduate Coordinator HPESS, Arkansas State University, P.O. Box 240, State University Arkansas, Email: [tadams@astate.edu](mailto:tadams@astate.edu), Phone: 870-972-3066**

**2. Proposed Change**

The revisions shown below reflect three proposed changes to the MS degree in Exercise Science:

1. For the MS degree in Exercise Science we are proposing to increase the total degree requirement hours for both the non-thesis and thesis degree tract options from 30 hours to 33 hours.
2. For the MS Degree in Exercise Science: thesis tract option, we are proposing to require ESPE 6543, Cellular Physiology of Exercise. This course was approved Spring 2011.
3. For the MS degree in Exercise Science non-thesis tract option we are proposing to add three hours of restricted elective bringing the total restricted elective hour requirement to 6 hours and total degree credit hour requirement to 33 hours.

**2. Effective Date**

**Spring 2012**

**4. Justification**

- a. The proposed changes in the MS degree in Exercise Science non-thesis option from 30 hours to 33 hours is to bring consistency in the number of required hours between the thesis and non-thesis options for all Departmental degree tracts. In addition, we found we needed to make the thesis and internship experiences 6 hours credit in all our degree tracts to better reflect the credit a student earns for completed course work relative to the amount of work required for the course. This change also helps the department degree tract to be more consistent with other programs in the university structure.
- b. The proposal to require ESPE 6543, Cellular Physiology of Exercise course into the thesis degree tracts is based on the belief that knowledge of cellular and subcellular adaptations to exercise is valuable and consistent with existing curriculum expectations of students graduating with an advanced degree in Exercise Science. We have determined that all MS in Exercise Science students need this valuable content. As a result, we have removed it from being an optional course to a required course for both the thesis tract and non-thesis tract students.
- c. The addition of the 3 hour restricted elective to the non-thesis tract is necessary to allow for a 6 credit hour internship experience. The Department anticipates the majority of non-thesis tract students will elect the internship experience as their elective. We will continue however to offer the Independent Study and Graduate Project courses as alternatives. We do not however, expect big interest in these courses. Our students appear to be more interested in gaining "real world" experiences that can be acquired through the internship option.

**Pages 112 and 113 (Note the changes below reflect changes that were approved in the Spring 2011 and do not show in the current bulletin. We are attempting to modify the recently approved changes. For reference, I have highlighted the Spring 2011 changes in yellow. These are the components that differ from the current bulletin. The pages identified reflect location in the bulletin.**

**Approved Bulletin Changes:**

**PROGRAMS OF STUDY**

I. Thesis Option

ESPE 6513, Cardiovascular Physiology  
ESPE 6533, Laboratory Techniques in Exercise Physiology  
ESPE 6523, Physical Activity for Special Populations  
ESPE 6623, Measurement and Statistics  
ESPE 6653, Neuromuscular Physiology  
ESPE 6673, Research Design  
ESPE 6683, Biomechanical Analysis of Sport Skills  
ESPE 6693, Motor Learning **or** ESPE 6663, Advanced Strength Training and Conditioning  
**or ESPE 6543, Cellular Exercise Physiology**  
ESPE 6786, Thesis

**Minimum hours required for this program of study: 30**

II. Non-Thesis Option

ESPE 6513, Cardiovascular Physiology  
ESPE 6533 Laboratory Techniques in Exercise Physiology  
ESPE 6523, Physical Activity for Special Populations  
ESPE 6623, Measurement and Statistics  
ESPE 6653, Neuromuscular Physiology  
ESPE 6673, Research Design  
ESPE 6683, Biomechanical Analysis of Sport Skills  
ESPE 6693, Motor Learning **or** ESPE 6663, Advanced Strength Training and Conditioning  
**ESPE 6543, Cellular Exercise Physiology**

Restricted ESPE Electives (3 Hours)

**Minimum hours required for this program of study: 30**

**Replace With: (Proposed changes are identified in green. The Spring 2011 change I left in yellow). The next Bulletin should look exactly as shown below.**



## PROGRAMS OF STUDY

### I. Thesis Option

ESPE 6513, Cardiovascular Physiology  
ESPE 6533, Laboratory Techniques in Exercise Physiology  
ESPE 6523, Physical Activity for Special Populations  
ESPE 6623, Measurement and Statistics  
ESPE 6653, Neuromuscular Physiology  
ESPE 6673, Research Design  
ESPE 6683, Biomechanical Analysis of Sport Skills  
ESPE 6693, Motor Learning **or** ESPE 6663, Advanced Strength Training and Conditioning  
**ESPE 6543, Cellular Exercise Physiology**  
ESPE 6786, Thesis

**Minimum hours required for this program of study: 33**

### II. Non-Thesis Option

ESPE 6513, Cardiovascular Physiology  
ESPE 6533, Laboratory Techniques in Exercise Physiology  
ESPE 6523, Physical Activity for Special Populations  
ESPE 6623, Measurement and Statistics  
ESPE 6653, Neuromuscular Physiology  
ESPE 6673, Research Design  
ESPE 6683, Biomechanical Analysis of Sport Skills  
ESPE 6693, Motor Learning **or** ESPE 6663, Advanced Strength Training and Conditioning  
**ESPE 6543, Cellular Exercise Physiology**

Restricted ESPE Electives (**6** Hours)

**Minimum hours required for this program of study: 33**

Code #

**Bulletin Change Transmittal Form**

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**Bulletin Change**

Please attach a copy of all catalogue pages requiring editorial changes.

Department Curriculum Committee Chair	Date	COPE Chair (if applicable)	Date
Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

**HPESS Tom Adams, Graduate Coordinator HPESS, Arkansas State University, P.O. Box 240, State University Arkansas, Email: [tadams@astate.edu](mailto:tadams@astate.edu), Phone: 870-972-3066**

**2. Proposed Change**

The revision below incorporates and illustrates one proposed change to the MS Degree in Sports Administration:

1. For MS degree in Sports Administration we are proposing to change, in both the thesis and non-thesis options, the total hour requirement from 30 hours to 33 hours. This change reflects an increase in 3 hours of Internship or Thesis depending on the degree tract.

**2. Effective Date**

**Spring 2012**

**4. Justification**

- a. The proposed change in the MS degree in Sports Administration total hour requirement from 30 hours to 33 hours is to bring consistency in the number of required hours between the thesis and non-thesis options for all Departmental degree tracts. In addition, we found we needed to make the thesis and internship experiences 6 hours credit in all our degree tracts to better reflect the credit a student earns for completed course work relative to the amount of work required for the course. The existing requirement for the Sports Administration is only a 3 hour requirement. This change also helps the department to be more consistent with other programs in the university structure.

**Page 114 (Note the changes below reflect changes that were approved in the Spring 2011 and do not show in the current bulletin. We are attempting to modify the recently approved changes. I have left highlighted in yellow the spring 2011 changes to the existing bulletin. The pages identified reflect location in the bulletin.**

**Approved Bulletin Changes:**

Program of Study

## Required Core Coursework

ELAD 6103 Ethical Leadership  
ESPE 6113 Sport Law  
ESPE 6123 Sport Marketing  
ESPE 6133 Sport Finance & Budgeting  
ESPE 6143 Sport Communications  
ESPE 6153 Sport Leadership  
ESPE 6163 Sport Governance & Operations  
ESPE 6603 Sport in Society  
ESPE 6673 Research Design  
ESPE 681V Internship

**Minimum hours required for this program: 30**

Replace with: (the proposed changes are reflected in green). The next Bulletin should look exactly like what is printed below.

## Program of Study

### Required Core Coursework

ELAD 6103, Ethical Leadership  
ESPE 6113, Sport Law  
ESPE 6123, Sport Marketing  
ESPE 6133, Sport Finance & Budgeting  
ESPE 6143, Sport Communications  
ESPE 6153, Sport Leadership  
ESPE 6163, Sport Governance & Operations  
ESPE 6603, Sport in Society  
ESPE 6673, Research Design  
ESPE 681V Internship or ESPE 6786, Thesis

**Minimum hours required for this program: 33**

Code #

### Bulletin Change Transmittal Form

- Undergraduate Curriculum Council - Print 1 copy for signatures and save 1 electronic copy.
- Graduate Council - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)

**Bulletin Change**  
Please attach a copy of all catalogue pages requiring editorial changes.

Department Curriculum Committee Chair	Date	COPE Chair (if applicable)	Date
Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

1. **Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)  
D. Keith Morris, ASU-J, PO Box 1080, [kmorris@astate.edu](mailto:kmorris@astate.edu); 870-972-3468

2. **Proposed Change**  
Drop **PSSC 3503 Agriculture Spatial Technologies I** as the prerequisite and add **AGRI 3543 Fundamental of GIS and GPS or instructors consent** as the prerequisite.

3. **Effective Date**  
Spring 2012

4. **Justification**  
AGRI 3543 Fundamentals of GIS and GPS has recently been created and added to the curriculum and is designed as an introductory GIS course whereas PSSC 6543 as an advanced GIS course and is open to graduate students across the university.

**PSSC 6543 Advanced Geographic Information Systems** Advanced GIS using ArcGIS software as the analytical assessment package. Prerequisites: ~~PSSC 3503 Agriculture Spatial Technologies I~~ **AGRI 3543 Fundamental of GIS and GPS or instructors consent**

**Bulletin Change Transmittal Form****Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy. **Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)**Bulletin Change**

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Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Marceline Thompson-Hayes, Ph.D.  
 Associate Professor & Interim Department Chair  
 Department of Communication Studies  
 Arkansas State University  
 Communications Building RM 338  
 P.O. Box 367  
 State University, AR 72467  
 Private office: 870.972.2816  
 Departmental office: 870.972.3091  
 Fax: 870.972.3856  
 Email: mhayes@astate.edu

**2. Proposed Change**

Add SCOM 6253, Qualitative Research Methods to the core courses required by all Communication Studies master's students.

**3. Effective Date**

Spring 2011

**4. Justification**

The Department of Communication Studies is attempting to align our core courses with the core courses in the College of Communications, which concurrently offers the Master of Science in Mass Communication (MSMC). Qualitative Research Methods is offered in the MSMC core.

**From the most current electronic version of the bulletin, copy all bulletin pages that this proposal affects and paste it to the end of this proposal.**

**To copy from the bulletin:**

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2. Go to <http://registrar.astate.edu/bulletin.htm> and choose either undergraduate or graduate.
3. This will take you to a list of the bulletins by year, please open the most current bulletin.
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5. Right-click on the highlighted area.
6. Click on "copy".
7. Minimize the bulletin and maximize this page.
8. Right-click immediately below this area and choose "paste".
9. For additions to the bulletin, please change font color and make the font size larger than the surrounding text. Make it noticeable.
10. For deletions, strike through the text, change the font color, and enlarge the font size. Make it noticeable.

## **MASTER OF ARTS DEGREE WITH A MAJOR IN COMMUNICATION STUDIES AND THEATRE**

The Master of Arts in Communication Studies and Theatre is co-offered by the Department of Communication Studies, College of Communications, and the Department of Theatre, College of Fine Arts. The graduate student's adviser should come from the Department of Communication Studies if the student's primary interest is communication, or from the Department of Theatre if the student's primary interest is theatre.

### **Admission Requirements**

Applicants seeking admission to the Master of Arts degree in Communication Studies and Theater must submit a sample of writing, which could be a recent term paper or research paper. A student may concentrate in either communication studies or theatre arts, and may complete at least six hours in the other area. With approval of the adviser, a student may complete up to six hours in cognate courses.

### **Courses required of all candidates with communication studies concentration**

SCOM 6203, Introduction to Graduate Study AND

**SCOM 6043, Communication Theory**

**~~SCOM 6223, Applied Research in Communication Studies~~**

SCOM 6053, Quantitative Research Methods OR MCOM 6053, Research Methods in Mass Communication

**SCOM 6253, Qualitative Research Methods in Communications**

### **Courses required of all candidates with theatre concentration**

THEA 6203, Introduction to Graduate Study AND

THEA 6253, Seminar in Production

**Minimum hours required for this program: 30**

## **MASTER OF SCIENCE IN MASS COMMUNICATIONS DEGREE**

The Master of Science in Mass Communications offers majors in journalism and in radio-television. Focusing on research and scholarship, the flexible curriculum provides opportunities for students interested in pursuing advancement in mass communications or preparing for doctoral studies and positions in higher education. Some students with limited mass communications background may be required to complete some undergraduate and graduate performance courses as part of their programs of study.

### **Admission Requirements**

Admission to the Master of Science in Mass Communications program is based on a variety of evidence, including educational experience and record, professional experience, recommendations, and a written statement of purpose.

### **Courses required of all candidates**

MCOM 6043, Theory of Mass Communications

MCOM 6053, Quantitative Research Methods in Communications

MCOM 6203, Introduction to Graduate Study

MCOM 6253, Qualitative Research Methods in Communications

### **Courses required of Journalism majors**

Twelve hours selected from the following:

MCOM 5023, Public Opinion, Propaganda and the Mass Media  
MCOM 5603, Crisis Communication  
MCOM 6023, Advanced Studies in Communications Law  
MCOM 6801-3, Independent Study  
JOUR 5043, Studies in Newspaper Management  
JOUR 5053, Public Affairs Reporting  
JOUR 5083, Sports, Business and Opinion Writing  
JOUR 5113, Integrated Communications Strategies  
JOUR 5323, Race, Gender and Media  
JOUR 5373, Internet Communications  
JOUR 6013, Specialized Reporting Problems  
JOUR 6023, Journalism Seminar

### **Courses required of Radio-Television majors**

Twelve hours selected from the following

MCOM 5023, Public Opinion, Propaganda and the Mass Media  
MCOM 6023, Advanced Studies in Communications Law  
MCOM 6801-3, Independent Study  
RTV 5063, International Communication Seminar  
RTV 5323, News Production and Performance  
RTV 5333, Special Topics  
RTV 5363, Multimedia Storytelling  
RTV 5373, Internet Communications  
RTV 5473, Advanced Internet Communications  
RTV 5553, Multimedia Reporting  
RTV 5573, Sportscasting  
RTV 6023, Advanced Studies in Broadcast Management  
RTV 6033, The Broadcast Documentary

### **Electives required of all candidates**

Six hours of graduate-level electives, subject to approval of student's adviser. The six hours may include six hours of thesis credit, courses in the college and/or courses outside the college. The topic of the thesis is subject to approval by the student's thesis committee. The thesis may be a continuation or extension of research begun in a Communications graduate class.

**Minimum hours required for these programs: 30**

## **CERTIFICATE IN HEALTH COMMUNICATION**

The health care industry continues to grow in structure, size, and complexity with the advent of new technologies and the demands of an aging population. According to the U.S. Census Bureau's website, the nation's population will increase by 18 percent between 2000 and 2020. Thus, an additional 50 million people will need to have their health care needs met. Moreover, by 2020, persons 85 years and older will represent the fastest growing segment of the population. They will be major users of health care facilities and services.

Communication training for health care providers and consumers can help prepare individuals to effectively meet the communicative demands of health care practice. Specially, consumers must be able to communicate effectively with their health care providers to achieve their goals and providers must be able to communicate effectively with clients and co-workers to competently perform their duties. Moreover, the role of media and health information dissemination is an important variable in informing consumers about health related matters which may affect how they communicate with health care providers.

The courses selected for the certificate in health communication are chosen for their applicability for individuals working in the health care industry and for consumers who wish to understand the role of communication in health care processes and outcomes.

Core: 12 hours

SCOM 5402, Seminar in Health Communication

SCOM 5243, Interpersonal Communication OR SCOM 6243, Seminar in Interpersonal Communication

SCOM 5253, Intercultural Communication  
NURS 6483, Ethics in Health Care  
Electives: 6 hours  
COUN 6423, Psychological Aspects of Aging  
ELSE 6023, Characteristics of Individuals with Disabilities  
NHP 5103, Patient Education  
HP 5453, Health Care Administration  
HP 6023, Health Policy and Economic Issues  
HP 6113, US Health Care OR NURS 6833, American Health Care System  
NURS 6303, Health Care Issues and Policy  
MCOM 5603, Crisis Communication OR SCOM 5263 Organizational Communication  
MGMT 6003, Organizational Behavior in Health Care Organizations  
MGMT 6013, Human Resource Management for Health Care Organizations

### **SPECIALIST IN COMMUNITY COLLEGE TEACHING**

The 60 graduate hours, including the Master's degree, which are required for the Specialist in Community College Teaching degree include the following:

Teaching Fields 39 Semester Hours

Community College Core 12 Semester Hours

Teaching Core 9 Semester Hours

A detailed description of this program, along with specific requirements, is presented in the Specialists in Education Degree program under the College of Education.

**Minimum hours required for this program: 30 plus a master's degree**

## **COLLEGE OF COMMUNICATIONS GRADUATE COURSE DESCRIPTIONS**

### **Mass Communications**

**MCOM 5023 Public Opinion** Propaganda and the Mass Media Survey of public opinion formation and change, with special attention to the role of the mass media in the creation and use of public opinion and propaganda. (Also listed as PR 4023.)

**MCOM 5603 Crisis Communication** An investigation of communications during crises, focusing on public relations, advertising and other persuasive efforts by institutions, corporations, movement leaders, and citizens to describe, persuade and shape human interactions with their environment during a crisis.

**MCOM 6023 Advanced Studies in Communications Law** An advanced study of communications law problems, issues, and responsibilities. Selected publications in the field will be examined. Individual projects concerning legal problems in freedom and responsibilities of the mass media.

**MCOM 6043 Theory of Mass Communications** Study of mass communications models, theory development, mass communications theories and theory relationships to research in mass communications.

**MCOM 6053 Quantitative Research Methods in Communications** Study of the tools and techniques of empirical research as they may be applied to mass communications.

### **MCOM 6063 Interpretative Research Methods in Mass Communication**

This course is intended to provide the student with the basic skills needed for understanding, rather than predicting or controlling, phenomena. Included will be discussion of and practice in basic phenomenological description, structural analysis, research interviewing, and qualitative research reporting. Co-requisite: MCOM Theory of Mass Communication

**MCOM 6163 Applied Research in Mass Communications** Guided research dealing with practical problems in mass communications. A primary outcome of the course will be a formal research paper acceptable for publication. Prerequisite: MCOM 6053.

**MCOM 6203 Introduction to Graduate Study** Survey of research methods; evaluation of selected studies; preparation of thesis.

**MCOM 6253 Qualitative Research Methods in Communication** This course is designed to acquaint students with major approaches to qualitative inquiry in the field of communication. Students will gain experience in collecting, analyzing, and interpreting qualitative data as well as writing qualitative research reports.

### **MCOM 6701-6 Thesis**

### **MCOM 6801-3 Independent Study**

### **Journalism**

**JOUR 5043 Studies in Newspaper Management** Study of business and editorial



management of the print media, including newspaper organization, publishing policies and economics, print media technology, circulation and promotion problems.

**JOUR 5053 Public Affairs Reporting** Instruction and practice in gathering material and writing stories on public affairs; emphasis on courts and government. Requires two hours of laboratory work per week. Prerequisite: JOUR 2013.

**JOUR 5083 Sports, Business and Opinion Writing** Techniques of news-writing and information gathering in business and sports reporting. Techniques of opinion writing. Prerequisite: C or better in JOUR 2013 or permission of professor or chair.

**JOUR 5113 Integrated Communications Strategies** Focuses on the strategic integration of various channels and methods of communication for the purpose of delivering key messages to diverse target audiences in order to elicit responses, create a dialogue and engender relationship-building. Prerequisites: JOUR 3023; PR 3003; or MKTG 3013.

**JOUR 5323 Race, Gender and Media** Survey of the interface between Americans and the mass media in the United States.

**JOUR 5373 Internet Communications** Provides students with a thorough understanding and practice in the use of the Information Superhighway. Students will develop skills and strategies to access and create news, advertising, and public relations messages in this new electronic medium for mass communications. The course will also look at new opportunities for communications professionals, examine critical social, political, and economic issues for the medium, and prepare for future technological advances. Prerequisite: basic computer competency.

**JOUR 5473 Advanced Internet Communications** Advanced Internet Communication provides students with a thorough understanding and practice in interactive and online content production and/or delivery. The course also explores other new media opportunities available to communication professionals. Special Course Fees Apply.

**JOUR 5913 Media Advisers Seminar** To provide an overview of the issues and practices of scholastic journalism, and to enable secondary school journalism advisers to acquire and refine skills in writing, reporting, and design.

**JOUR 6023 Journalism Seminar** Study of the press as an institution; its problems, role, content, effects, and responsibilities as a cultural force in society.

#### **Radio-Television**

**RTV 5053 Public Affairs Reporting for Electronic Journalism** Coverage of municipal and county government agencies, public school boards, community planning and development agencies, and special events within the local community for the electronic media.

**RTV 5063 International Communication Seminar** Critical discussion and analyses of the social, cultural, economic, political, technological and institutional forces governing the exchange of mediated information across national frontiers.

**RTV 5303 Multimedia Reporting** Apply the basics of traditional journalism skills in the digital media practice and develop the abilities of integrating audio, photographs, graphics and video as multimedia storytelling tools to enrich online news coverage. Prerequisite: Basic computer competency.

**RTV 5323 News Production and Performance** Experience in producing news programs. Students exercise judgment and make editorial decisions about news content and program continuity. Experience in verbal and non-verbal communication relative to on camera delivery.

**RTV 5333 Special Topics** A seminar that addresses current topics in the area of communication.

**RTV 5363 Multimedia Storytelling** Introductory course in multimedia concepts, media elements, platforms, and production. Emphasis is placed on delivery of content across media platforms for diverse audiences.

**RTV 5373 Internet Communications** Provides students with a thorough understanding and practice in the use of the Information Superhighway. Students will develop skills and strategies to access and create news, advertising, and public relations messages in this new electronic medium for mass communications. The course will also look at new opportunities for communications professionals, examine critical social, political, and economic issues for the medium, and prepare for future technological advances. Prerequisite: basic computer competency.

**RTV 5473 Advanced Internet Communications** Advanced Internet Communication provides students with a thorough understanding and practice in interactive and online content production and/or delivery. The course also explores other new media opportunities available to communication professionals. Special Course Fees Apply.

**RTV 5573 Sportscasting** Theory and practical application of sportcasting for radio and television.

**RTV 6023 Advanced Studies in Broadcast Management** An advanced study of the elements, problems, and responsibilities of radio and television station management.

**RTV 6033 The Broadcast Documentary** This course provides for the graduate student in broadcasting an opportunity both to study the broadcast documentary, its structure and role, and to gain some hands-on practical experience in organizing, structuring, and producing this broadcast form.

### **Communication Studies**

**SCOM 5203 Small Group Communication** Group and conference techniques for classroom, business, and professional situations.

**SCOM 5243 Interpersonal Communication** Emphasis on increasing the student's capacity for openness, sensitivity, and objective appraisal.

**SCOM 5253 Intercultural Communication** Identification of barriers, and breakdowns to communication among cultures.

**SCOM 5263 Organizational Communication** Dynamics and theories of communication within an organization.

**SCOM 5293 History and Criticism of American Public Address** Historical background and significance of leading orators in America.

**SCOM 5323 Communication in Personal Relationships** The course covers interpersonal communication in the context of personal relationships such as romantic relationships, friendships, professional relationships, and family relationships.

**SCOM 5373 Conflict Resolution** The conflict and communication course examines conflict as a communication variable created through interpersonal interaction in dyads, small groups, families, and organizations.

**SCOM 5383 Computer Mediated Communication** This course considers how identities, relationships and communities are created and influenced by our use of computers and the internet. We will gain understanding of these processes by engaging new media scholarship and activities involving different forms of new media.

**SCOM 5403 Seminar in Health Communication** Study of the major cultural, interpersonal, and public communication issues affecting health communication.

**SCOM 5423 Narratives in Health and Healing** Explores the social construction of health, illness and healing through the study of narrative.

**SCOM 6053 Quantitative Research Methods in Communications** Study of the tools and techniques of empirical research as they may be applied to mass communications.

**SCOM 6203 Introduction to Graduate Study** Survey of research methods; evaluation of selected studies; preparation of thesis.

~~**SCOM 6223 Applied Research in Communication Studies** A study of the practical problems in research in communication studies. Prerequisite: Either ELFN 6773 Introduction to Statistics and Research OR MCOM 6053 Research Methods in Mass Communication.~~

**SCOM 6253 Qualitative Research Methods in Communication** This course is designed to acquaint students with major approaches to qualitative inquiry in the field of communication. Students will gain experience in collecting, analyzing, and interpreting qualitative data as well as writing qualitative research reports.

**SCOM 6243 Seminar in Interpersonal Communication** This course is designed to introduce students to foundational as well as current theory and research in interpersonal communication. Students will examine several interpersonal communication contexts and processes as well as methodologies in interpersonal communication.

**SCOM 6233 Communication Education** A study of the history and philosophy of the pedagogy of communication studies, to include both theoretical and applied aspects of the discipline.

**SCOM 6603-6 Internship in Communication Studies** Combines relevant work experience with classroom theory.

**SCOM 6701-6 Thesis**

**SCOM 6801-3 Independent Study**

**Bulletin Change Transmittal Form**

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 **Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)

**Bulletin Change**

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Department Curriculum Committee Chair	Date	COPE Chair (if applicable)	Date
Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change****DOCTOR OF PHYSICAL THERAPY**

The Doctor of Physical Therapy (DPT) is the preferred degree by the Commission on Accreditation in Physical Therapy Education (CAPTE) and the American Physical Therapy Association's (APTA) and it reflects the current level of study that is required to meet the latest standards for physical therapy education.

**Admission Requirements**

Admissions requirements include an earned bachelor's degree in a related field, acceptance to ASU, Graduate School and satisfactory completion of pre-requisite courses. Completing admission requirements does not ensure acceptance into the DPT program as students are admitted on a competitive space-available basis.

**Application Deadlines**

Application deadline is February 1st each year. Students may acquire detailed information about the application process and pre-requisite courses by contacting the Department of Physical Therapy at 870-972-3591 or visiting the department's website at <http://www.astate.edu/conhp/pt>.

**The D.P.T. Degree and Physical Therapy Licensure**

The D.P.T. is the entry-level degree for the practice of physical therapy. The Curriculum associated with the degree prepares graduates for physical therapy practice while paying particular to the health and rehabilitation concerns of residents of the Delta region. Licensure to practice physical therapy is granted by the individual states and issued on scores obtained on the National Licensing Examination administered by the Federation of State Boards of Physical Therapy. Graduation from an accredited educational program is a prerequisite to sit for the licensing exam. The DPT program at ASU is accredited by the Commission on Accreditation of Physical Therapy Education.

**Course Requirements**

The DPT consists of 109 semester credit. The courses are a mixture of didactic and clinical learning experiences including several sections of extended weeks of full time clinical education. The sequence of courses appears below.

**Course Sequence**

**Fall Year 1**

PT 7113 Gross Anatomy  
PT 7213 Movement Science  
PT 7624 Electrotherapy & Physical Agents  
PT 7534 Clinical Procedures: Introductory Tests, Measures, Interventions  
PT 7512 Professional Issues 1: Introduction to PT Practice  
PT 7612 Methods of Instruction & Consultation

**Spring Year 1**

PT 7314 Exercise Physiology  
PT 7123 Intro to Research and Evidence Based Practice  
PT 7224 Neuroscience  
PT 8245 Musculoskeletal 1  
PT 7243 Integumentary

**Summer Year 1**

PT 7733 Clinical Education 1  
PT 7413 Pathology & Differential Diagnosis

**Fall Year 2**

PT 7141 Research 1  
PT 8143 Neuromuscular 1  
PT 8255 Musculoskeletal 2  
PT 7444 Cardiopulmonary  
PT 7343 Administration

**Spring Year 2**

PT 8151 Research 2  
PT 8653 Neuromuscular 2  
PT 8754 Neuromuscular 3  
PT 8352 Health & Wellness  
PT 7252 Psychosocial Issues  
PT 7832 Clinical Education 2

**Summer Year 2**

PT 8163 Clinical Education 3  
PT 8263 Clinical Education 4  
PT 7323 Imaging & Pharmacology

**Fall Year 3**

PT 8571 Research 3  
PT 8674 Musculoskeletal 3  
PT 8773 Neuromuscular 4  
PT 8272 Professional Issues in PT 2  
PT 8872 Clinical Decision Making  
PT 8573 Elective: Special Topics in Physical Therapy

**Spring Year 3**

PT 8585 Clinical Education 5  
PT 8685 Clinical Education 6  
PT 818V Independent Study & Culminating Experience

All students in the Graduate Program in Physical Therapy at ASU must pass a comprehensive examination prior to beginning the final clinical internships in the Spring of Year 3.

Progression to these clinical internships can be delayed or denied if a passing grade for the comprehensive examination is not achieved.

**Minimum hours required for this program: 109**

**3. Effective Date**

Spring 2012

**4. Justification**

The change reflects the degree plan for the current DPT curriculum. Course changes were implemented in the Fall 2011 but these changes were not made in the bulletin on these bulletin pages (pages 191-192). In addition, this document reflects changes that are submitted for Spring 2012 curriculum changes.

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**Copied from Page 191-192 of Graduate Bulletin 2010-2011:**

## **COLLEGE OF NURSING AND HEALTH PROFESSIONS**

The College of Nursing and Health Professions offers six graduate level programs: the

Graduate ~~Certificate~~ **Certificate** in Aging Studies, the Graduate ~~Certificate~~ **Certificate** in Health Sciences Education, the Master of Communication Disorders (M.C.D.), the Doctor of Physical Therapy (D.P.T.), the Master of Science in Health Sciences (M.S.H.S.), and the Master of Science in Nursing (M.S.N.).

### **DOCTOR OF PHYSICAL THERAPY**

The Doctor of Physical Therapy (DPT) is the preferred degree by the Commission on Accreditation in Physical Therapy Education (CAPTE) and the American Physical Therapy

Association's (APTA) and it ~~reflects~~ **reflects** the current level of study that is required to meet the latest standards for physical therapy education.

#### **Admission Requirements**

Admissions requirements include an earned bachelor's degree in a related ~~field~~ **field**, acceptance to ASU, Graduate School and satisfactory completion of pre-requisite courses. Completing admission requirements does not ensure acceptance into the DPT program as students are admitted on a competitive space-available basis.

#### **Application Deadlines**

Application deadline is ~~March~~ **February** 1st each year. Students may acquire detailed information about the application process and pre-requisite courses by contacting the Department of Physical Therapy at 870-972-3591 or visiting the department's website at <http://www.astate.edu/conhp/pt>.

#### **The D.P.T. Degree and Physical Therapy Licensure**

The D.P.T. is the entry-level degree for the practice of physical therapy. The Curriculum associated with the degree prepares graduates for physical therapy practice while paying particular to the health and rehabilitation concerns of residents of the Delta region. Licensure to practice physical therapy is granted by the individual states and issued on scores obtained on the National Licensing Examination administered by the Federation of State Boards of Physical Therapy. Graduation from an accredited educational program is a prerequisite to sit for the licensing exam. The DPT program at ASU is accredited by the Commission on Accreditation of Physical Therapy Education.

#### **Course Requirements**

The DPT consists of ~~108~~ **109** semester credit. The courses are a mixture of didactic and clinical learning experiences including several sections of extended weeks of full time clinical education. The sequence of courses appears below.

Course Sequence

Fall Year 1

PT ~~7112~~ **7113** Gross Anatomy

PT ~~7214~~ **7213** Movement Science

PT 7624 Electrotherapy & Physical Agents

~~PT 7524 Therapeutic Ex & Patient Handling~~

**PT 7534 Clinical Procedures: Introductory Tests, Measures, Interventions**

PT 7512 Professional Issues 1: Introduction to PT Practice

PT 7612 Methods of Instruction & Consultation

Revised 9/10/09

Spring Year 1

PT 7314 **Exercise** Physiology

PT 7123 ~~Research 1:~~ Intro to **Research and** Evidence Based Practice

PT 7224 Neuroscience

PT ~~8244~~**8245** Musculoskeletal 1

PT 7243 Integumentary

Summer Year 1

PT 7733 Clinical Education 1

~~PT 7833 Clinical Education 2~~

PT 7413 Pathology & Differential Diagnosis

Fall Year 2

PT 7141 Research **1**

PT 8143 Neuromuscular 1

PT ~~8252~~ **8255** Musculoskeletal 2

~~PT 8341 Seminar in Instruction & Consultation~~

PT ~~7443~~ **7444** Cardiopulmonary

PT ~~7344~~ **7343** Administration **1**

Spring Year 2

PT 8151 Research ~~3~~ **2**

PT 8653 Neuromuscular 2

PT ~~8753~~ **8754** Neuromuscular 3

PT 8352 Health & Wellness

PT 7252 Psychosocial Issues

~~PT 7323 Imaging & Pharmacology~~

**PT 7832 Clinical Education 2**

Summer Year 2

PT 8163 Clinical Education 3

PT 8263 Clinical Education 4

**PT 7323 Imaging & Pharmacology**

Fall Year 3

PT 8571 Research **4** **3**

PT 8674 Musculoskeletal 3

PT 8773 Neuromuscular 4

PT 8272 Professional Issues in PT 2

PT 8872 Clinical Decision Making

PT 8373 Elective: Special Topics in Physical Therapy

Spring Year 3

PT 8585 Clinical Education 5

PT 8685 Clinical Education 6

PT ~~8181~~ **818V** Independent Study & Culminating Experience

All students in the Graduate Program in Physical Therapy at ASU must pass a comprehensive

examination prior to beginning the ~~fi-nal~~ **final** clinical internships in the Spring of Year 3.

Progression to these clinical internships can be delayed or denied if a passing grade for the

comprehensive examination is not achieved. ~~After admission into the professional program,~~

~~students will be required to take the GRE and the GRE writing examination prior to~~

~~completion~~

~~of the fi-rst year.~~

Minimum hours required for this program: ~~108~~ **109**

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Department Chair	Date	General Education Committee Chair (if applicable)	Date
College Curriculum Committee Chair	Date	Undergraduate Curriculum Council Chair	Date
College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 818V Independent Study and Culminating Experience** This is an independent study that is designed to meet the individual professional learning needs of the student. The course work is designed on an individual basis.

**3. Effective Date**

Spring 2012

**4. Justification**

The independent study course will have variable credit hours depending on the degree program in which the course falls. Students that are completing their third year in the DPT curricula will register for one (1) credit hour. Students that are completing the transitional DPT (tDPT) program will register for three (3) credit hours or register for three separate one (1) credit hour courses throughout the three year program. The variability is needed to allow the credit hours to fluctuate between the two different degree programs.

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**Copied from Page 209 of Graduate Bulletin 2010-2011:**

principles from anatomy, physiology, and biomechanics to clinical procedures of massage, manual therapy, therapeutic exercise and basic patient care skills. In addition documentation for physical therapist is covered.

**PT 7612 Methods of Instruction and Consultation** The ~~fi~~-rst first of two courses addressing the role of the therapist as educator, with emphasis on principles and methods of effective instruction, feedback, and consultation along with the various forms of educational and instructional technologies to present information.

**PT 7624 Electrotherapy and Physical Agents** Introduction to the theory and applications of thermal modalities and electrotherapy to human tissue. Indications, contraindications, and precautions for thermal modalities, and electrotherapy are covered. Clinical decision making and appropriate applications of the modalities are emphasized.

**PT 7733 Clinical Education I** The ~~fi~~-rst first of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 7833 Clinical Education II** The second of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8143 Neuromuscular I** Theoretical foundations of neuromuscular rehabilitation including normal and abnormal movement, neuroplasticity, limbic functions; principles of differential diagnosis, psychosocial aspects of neuromuscular disorders; medical and nonmedical interventions including basic pharmacology. Prerequisites: PT 7224 and PT 7314.

**PT 8151 Research III** Third mentored research course culmination in a project suitable for presentation or publication, focusing on implementation of the research project and gathering of pertinent data as outlined in the research proposal. Prerequisite: PT 7141 Research II.

**PT 8163 Clinical Education III** The third of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8172 Administration II** The second administrative course addressing principles of health administration. Emphasis on nuances in ~~pa~~tent patient care, federal reimbursement, and clinical administration across the US healthcare system including acute, skilled nursing, home health, outpatient, and hospice care. Prerequisite: PT 7343 Administration I.

**PT 8181818V Independent Study and Cumulating Culminating Experience** This is an independent study that is designed to meet the individual needs of the student. The course work is designed on an individual basis.

**PT 8244 Musculoskeletal I** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 7624

**PT 8254 Musculoskeletal II** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 8244 Musculoskeletal I.



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**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 7123 Introduction to Research and Evidence Based Practice** Provide students with the prerequisite integrated knowledge and skills required to assimilate, prepare, and present research necessary for evidence based practice.

**3. Effective Date**

Spring 2012

**4. Justification**

This course will provide foundational knowledge for research which includes traditional research design and statistics. In addition, evidence based practice will be introduced. This change is based upon faculty input that students are not ready for a mentor-protégé research project as their first course. After students have received the necessary research foundation, the student will be paired with a faculty member in PT 7141

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allocation of limited financial resources, dating in the workplace, performance evaluations and raises, outcomes assessment, managed care and sexual harassment. Prerequisite: PT 6252.

**PT 6503 Musculoskeletal IV** The management of musculoskeletal cases of the spine and TMJ incorporating anatomy, biomechanics, pathology, clinical diagnosis, intervention, education prevention, ergonomics, pain management, and conditioning. Emphasis will be on clinical decision making in all aspects of patient therapist interactions. . Prerequisite: PT 6202

**PT 6513 Neuromuscular IV** Students will have opportunity to focus on evaluation, assessment, and treatment planning for adult and elderly populations with neuromuscular illness. A broad spectrum of neurological conditions, including traumatic head injuries and degenerative conditions such as Parkinsonism, etc will be the focus of the course. Prerequisite: PT 6413.

**PT 6532 Cardiopulmonary II** This class provides an investigation into the evaluation, treatment and rehabilitation considerations associated with cardiovascular disease in humans. Prerequisite: PT 6132.

**PT 6541 Research IV** This course is designed to be a mentor-protégé experience. The course represents the fourth semester of this process. The student will complete research under the direction of a faculty member. This research will be based on the previous semester's work that has culminated in the implementation of a data collection methodology, the collection of data, and the analysis of the data collected. At the completion of these courses the student will have produced (alone or in conjunction with the mentor) a product of scholarly quality, suitable for presentation and/or publication. Prerequisite: PT 6441.

**PT 6601 Musculoskeletal V** This course is a laboratory clinical simulation course designed to assist students in the integration of all content and skills included in all Musculoskeletal courses of the ASU Graduate PT Curriculum. Students are provided and/or develop musculoskeletal cases that are diagnosed, managed, and defended in a laboratory setting. This course prepares the student, with regard to musculoskeletal issues, for the final semester of clinical rotation. Prerequisite: PT 6503.

**PT 6611 Neuromuscular V** This course is the last in a series of courses dealing with neuromuscular conditions. Students will have opportunity to focus on evaluation, assessment, and treatment planning for pediatric, adult and elderly populations with neuromuscular illness. The areas discussed in this course will demand a higher order of knowledge and skills acquired during the previous neuromuscular courses. Prerequisite: PT 6513.

**PT 6602 Clinical Education III** Five weeks of full-time affiliation at an assigned facility working with assigned patients under the supervision of an on-site physical therapist. Students integrate the knowledge of basic sciences and interventions to practice problem solving techniques in the clinical setting. Prerequisites: PT 6503, PT 6513, PT 6541, and PT 6532.

**PT 6763 Clinical Education IV** Eight weeks of full-time affiliation at an assigned facility working with assigned patient under the supervision of an onsite physical therapist. Students integrate the knowledge of basic sciences and interventions to practice problemsolving techniques in the clinical setting. Prerequisite: PT 6601 and PT 6611.

**PT 6773 Clinical Education V** Eight weeks of full-time affiliation at an assigned facility working with assigned patients under the supervision of an on-site physical therapist. Students integrate the knowledge of basic sciences and interventions to practice problem solving techniques in the clinical setting. Prerequisite: PT 6763.

**PT 7112 Gross Anatomy** Study of the structure and function of the human limbs, spine, head and neck; regional description with emphasis on the muscular, skeletal, nervous, and vascular systems of the limbs and spine. Corequisite PT 7214 Movement Science.

**PT 7123 Research-Introduction to Research and Evidence Based Practice** ~~The first of four mentored research courses culminating in a project suitable for presentation or publication, with the first course focusing on surveillance of the research landscape, identification of a research topic, and review of related literature.~~ Provide learners with the prerequisite integrated knowledge and skills required to assimilate, prepare, and present research necessary for evidence based practice.

**PT 7141 Research II** The second of four mentored research courses culminating in a project suitable for presentation or publication, with the second course focusing on the development and defense of the research proposal and its approval by the ASU Institutional Review Board.

**PT 7214 Movement Science** Anatomical and biomechanical analysis of normal

and abnormal human motion, including posture and gait, and their implications for physical therapy. Principles of muscle force testing and goniometry.. Corequisite: PT 7112 Gross Anatomy.

**PT 7224 Neuroscience** Analysis of the structure and function of the human nervous system for physical therapy majors. Prerequisite: Successful completion of PT 5102 Gross Anatomy.

**PT 7243 Integumentary** Pathologies, impairments, functional limitations, and disabilities of individuals with integumentary system dysfunction; review of relevant anatomy, physiology and pathophysiology of the integumentary system; physical therapy management of individuals with compromised integumentary system.

**PT 7252 Psychosocial Issues in Physical Therapy** Physical therapists' role is management of psychosocial issues affecting patient care including loss and grieving, self concept, socio-cultural considerations, stress and coping, motivational issues and terminal illness.

**PT 7314 Physiology** Provides learners with and integrated knowledge and application of physiological principles related to the provision of patient care in physical therapy. Topics investigated include the physiology and normal responses of the musculoskeletal, neurological, renal, and cardiopulmonary systems.

**PT 7323 Imaging and Pharmacology** An overview of radiologic imaging and pharmacology in physical therapy practice, with the radiology portion covering the indications, uses, limitations and advantages of imaging techniques, and the pharmacology portion covering the pharmacokinetics and pharmacodynamics of various pharmacologic interventions.

**PT 7343 Administration I** The first of two courses addressing principles of health administration, which emphasis on the US healthcare system; legal and ethical issues; business basics, human resource management; service marketing; health care economics; and outcomes, accreditation, risk management, and consultative services.

**PT 7413 Pathophysiology and Differential Diagnosis** This course examines the influence of disease on different body systems. Content examines the effects of pathological and age-related changes on health and human movement. The course includes differential diagnosis and basic pharmacological principles for a variety of pathologies.

**PT 7443 Cardiopulmonary** Addresses the physical therapy management cardiopulmonary dysfunction, with emphasis on pathologies, impairments, functional limitations, and disabilities associated with the dysfunctions, and the development of a systematic approach to examination, evaluation, diagnosis, prognosis, and intervention. Prerequisites; PT 7314, and PT 7413

**PT 7733 Clinical Education I** The first of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 7512 Professional Issues I** Introduction to the Guide to Physical Therapist practice, professional association, professional behaviors, leadership, regulation of the profession.

**PT 7524 Therapeutic Exercise and Patient Handling** This course applies

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Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 7314 Exercise Physiology** Provides students with an integrated knowledge and application of physiological principles related to the provision of patient care in physical therapy. Topics include musculoskeletal, neurological, renal, and cardiopulmonary systems at rest and with acute/chronic exercise.

**3. Effective Date**

Spring 2012

**4. Justification**

The title change is to reflect current American Physical Therapy Association normative model guidelines that include human physiology and exercise physiology in one course. Basic human physiology will be continued to be taught in the course with additional course information addressing responses to exercise.

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of the research landscape, identification of a research topic, and review of related literature.

**PT 7141 Research II** The second of four mentored research courses culminating in a project suitable for presentation or publication, with the second course focusing on the development and defense of the research proposal and its approval by the ASU Institutional Review Board.

**PT 7214 Movement Science** Anatomical and biomechanical analysis of normal and abnormal human motion, including posture and gait, and their implications for physical therapy. Principles of muscle force testing and goniometry.. Corequisite: PT 7112 Gross Anatomy.

**PT 7224 Neuroscience** Analysis of the structure and function of the human nervous system for physical therapy majors. Prerequisite: Successful completion of PT 5102 Gross Anatomy.

**PT 7243 Integumentary** Pathologies, impairments, functional limitations, and disabilities of individuals with integumentary system dysfunction; review of relevant anatomy, physiology and pathophysiology of the integumentary system; physical therapy management of individuals with compromised integumentary system.

**PT 7252 Psychosocial Issues in Physical Therapy** Physical therapists' role is management of psychosocial issues affecting patient care including loss and grieving, self concept, socio-cultural considerations, stress and coping, motivational issues and terminal illness.

**PT 7314 Exercise Physiology** Provides learners with **and an** integrated knowledge and application of physiological principles related to the provision of patient care in physical therapy.

Topics **investigated** include ~~the physiology and normal of the~~ musculoskeletal, neurological, renal, and cardiopulmonary systems **at rest and with acute/chronic exercise**.

**PT 7323 Imaging and Pharmacology** An overview of radiologic imaging and pharmacology in physical therapy practice, with the radiology portion covering the indications, uses, limitations and advantages of imaging techniques, and the pharmacology portion covering the pharmacokinetics and pharmacodynamics of various pharmacologic interventions.

**PT 7343 Administration I** The first of two courses addressing principles of health administration, which emphasis on the US healthcare system; legal and ethical issues; business basics, human resource management; service marketing; health care economics; and outcomes, accreditation, risk management, and consultative services.

**PT 7413 Pathophysiology and Differential Diagnosis** This course examines the influence of disease on different body systems. Content examines the effects of pathological and age-related changes on health and human movement. The course includes differential diagnosis and basic pharmacological principles for a variety of pathologies.

**PT 7443 Cardiopulmonary** Addresses the physical therapy management cardiopulmonary dysfunction, with emphasis on pathologies, impairments, functional limitations, and disabilities associated with the dysfunctions, and the development of a systematic approach to examination, evaluation, diagnosis, prognosis, and intervention. Prerequisites; PT 7314, and PT 7413

**PT 7733 Clinical Education I** The first of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 7512 Professional Issues I** Introduction to the Guide to Physical Therapist practice, professional association, professional behaviors, leadership, regulation of the profession.

**PT 7524 Therapeutic Exercise and Patient Handling** This course applies

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Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 8151 Research II** The second of three mentored research courses designed to culminate in a project suitable for presentation or publication. Students will continue developing projects related to the faculty advisor's area of knowledge and interest. Prerequisite: PT 7141.

**3. Effective Date**

Spring 2012

**4. Justification**

This will be the second mentored course, instead of the third in research the research pillar. This is based on faculty input that many students need to have PT 7123, Research and Introduction to Evidence Based Practice as a foundation before entering into a mentor-protégé research course.

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principles from anatomy, physiology, and biomechanics to clinical procedures of massage, manual therapy, therapeutic exercise and basic patient care skills. In addition documentation for physical therapist is covered.

**PT 7612 Methods of Instruction and Consultation** The first of two courses addressing the role of the therapist as educator, with emphasis on principles and methods of effective instruction, feedback, and consultation along with the various forms of educational and instructional technologies to present information.

**PT 7624 Electrotherapy and Physical Agents** Introduction to the theory and applications of thermal modalities and electrotherapy to human tissue. Indications, contraindications, and precautions for thermal modalities, and electrotherapy are covered. Clinical decision making and appropriate applications of the modalities are emphasized.

**PT 7733 Clinical Education I** The first of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 7833 Clinical Education II** The second of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8143 Neuromuscular I** Theoretical foundations of neuromuscular rehabilitation including normal and abnormal movement, neuroplasticity, limbic functions; principles of differential diagnosis, psychosocial aspects of neuromuscular disorders; medical and nonmedical interventions including basic pharmacology. Prerequisites: PT 7224 and PT 7314.

~~**PT 8151 Research III** Third mentored research course culmination in a project suitable for presentation or publication, focusing on implementation of the research project and gathering of pertinent data as outlined in the research proposal. Prerequisite: PT 7141~~

**Research II-Research II** The second of three mentored research courses designed to culminate in a project suitable for presentation or publication. Students will continue developing projects related to the faculty advisor's area of knowledge and interest. Prerequisite: PT 7141.

**PT 8163 Clinical Education III** The third of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8172 Administration II** The second administrative course addressing principles of health administration. Emphasis on nuances in patient care, federal reimbursement, and clinical administration across the US healthcare system including acute, skilled nursing, home health, outpatient, and hospice care. Prerequisite: PT 7343 Administration I.

**PT 8181 Independent Study and Cumulating Experience** This is an independent study that is designed to meet the individual needs of the student. The course work is designed on an individual basis.

**PT 8244 Musculoskeletal I** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 7624

**PT 8254 Musculoskeletal II** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 8244 Musculoskeletal I.



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<p><b>1. Contact Person</b> (Name, Name of Institution, Address, Email Address, Phone Number)                  Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  <a href="mailto:sdrake@astate.edu">sdrake@astate.edu</a> 870-972-3591</p>
<p><b>2. Proposed Change</b>  <b>PT 8245 Musculoskeletal I</b> Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered.                  Prerequisite: PT 7624</p>
<p><b>3. Effective Date</b>                  Spring 2012</p>
<p><b>4. Justification</b>                  An additional credit is being added in order to add an additional hour of lab instruction; faculty review of the curriculum and student feedback indicates the additional time is needed to provide adequate instruction in the course content.</p>

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principles from anatomy, physiology, and biomechanics to clinical procedures of massage, manual therapy, therapeutic exercise and basic patient care skills. In addition documentation for physical therapist is covered.

**PT 7612 Methods of Instruction and Consultation** The first of two courses addressing the role of the therapist as educator, with emphasis on principles and methods of effective instruction, feedback, and consultation along with the various forms of educational and instructional technologies to present information.

**PT 7624 Electrotherapy and Physical Agents** Introduction to the theory and applications of thermal modalities and electrotherapy to human tissue. Indications, contraindications, and precautions for thermal modalities, and electrotherapy are covered. Clinical decision making and appropriate applications of the modalities are emphasized.

**PT 7733 Clinical Education I** The first of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 7833 Clinical Education II** The second of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8143 Neuromuscular I** Theoretical foundations of neuromuscular rehabilitation including normal and abnormal movement, neuroplasticity, limbic functions; principles of differential diagnosis, psychosocial aspects of neuromuscular disorders; medical and nonmedical interventions including basic pharmacology. Prerequisites: PT 7224 and PT 7314.

**PT 8151 Research III** Third mentored research course culmination in a project suitable for presentation or publication, focusing on implementation of the research project and gathering of pertinent data as outlined in the research proposal. Prerequisite: PT 7141 Research II.

**PT 8163 Clinical Education III** The third of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8172 Administration II** The second administrative course addressing principles of health administration. Emphasis on nuances in patient care, federal reimbursement, and clinical administration across the US healthcare system including acute, skilled nursing, home health, outpatient, and hospice care. Prerequisite: PT 7343 Administration I.

**PT 8181 Independent Study and Cumulating Experience** This is an independent study that is designed to meet the individual needs of the student. The course work is designed on an individual basis.

**PT 8244/8245 Musculoskeletal I** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 7624

**PT 8254 Musculoskeletal II** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 8244 Musculoskeletal I.

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[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**  
**PT 8352 Health and Wellness** This course covers wellness, fitness, prevention and health promotion from an interdisciplinary perspective. Students will be introduced to concepts of wellness that include physical, social, environmental, emotional, intellectual and spiritual components (web based).

**3. Effective Date**  
 Spring 2012

**4. Justification**  
 The changes to the course description reflect instruction in comprehensive content on the topic of health and wellness required by physical therapist education accreditation standards. Previously the course description implied content focused on one body system (cardiopulmonary) and one age group (elderly).

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**PT 8263 Clinical Education IV** The fourth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8272 Professional Issues II** Exploration of the roles of physical therapist in clinical practice and ethical and legal dilemmas faced by physical therapists; design of a professional development plan.

**PT 8341 Seminar in Instruction and Consultation** The second of two courses addressing the role of the therapist as educator. Emphasis on student facilitated instruction using a variety of pedagogical approaches, active learning strategies, instructional technologies, and assessment

**PT 8352 Health and Wellness** ~~The first component of this course addresses cardiopulmonary rehabilitation of individuals with cardiopulmonary system dysfunction, and health and wellness issues relevant to Physical Therapy. The second component of this course is focused on health and wellness of the elderly.~~ This course covers wellness, fitness, prevention and health promotion from an interdisciplinary perspective. Students will be introduced to concepts of wellness that include physical, social, environmental, emotional, intellectual and spiritual components.

**PT 8373 Complementary and Alternative Medicine Special Topics in Physical Therapy** An overview of complementary and alternative medicine with emphasis on current research information pertaining to the safety and effectiveness of representative therapies and the application of research evidence in the context of physical therapy practice. This course is a required elective in the DPT program that provides the opportunity for students to gain advanced skills in focused practice areas with emphasis on areas associated with specialty certification in physical therapy by the American Board of Physical Therapy Specialties.

**PT 8473 Cultural Competence in the Delivery of Health Care** Self- assessment of awareness, knowledge, sensitivity and acceptance of the importance of cultural issues in a culturally diverse health care environment; definition/components of culture, cultural values, cultural competence, health/healing, transcultural communication, fostering cultural competence in other health care workers.

**PT 8571 Research IV** The fourth of four mentored research courses culminating in a project suitable for presentation or publication, with the fourth course focusing on the development and defense of the final research project and its submission for publication or presentation.

**PT 8585 Clinical Education V** The fifth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8653 Neuromuscular II** Examination, assessment and treatment planning for pediatric population with a broad spectrum of neurological conditions, including cerebral palsy, genetic disorder, etc. Prerequisite: PT 8143 Neuromuscular I.

**PT 8674 Musculoskeletal III** The terminal course in Musculoskeletal sequence. Intended to offer the student an opportunity to engage in an intensive and comprehensive immersion into the management of the patient with musculoskeletal II dysfunction leading to effective clinical practice. Prerequisites: PT 8254 Musculoskeletal II.

**PT 8685 Clinical Education VI** The sixth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8773 Neuromuscular IV** Evaluation, assessment, and treatment planning for individuals with brain injury due to cerebrovascular accident, traumatic brain injury, tumor or infection; management of patients with Parkinson's disease, Huntington's disease and complex

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[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**  
**PT 8585 Clinical Education V** One of a series of supervised clinical education courses, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses. Prerequisite: PT 8263

**3. Effective Date**  
Spring 2012

**4. Justification**  
The change removes reference to the number of courses in the clinical education series and the number of weeks of the experience; the number of courses does not have educational significance and is being changed with modification to other courses in the series. Removing the reference to the number of weeks provides flexibility in planning the experiences.

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**PT 8263 Clinical Education IV** The fourth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8272 Professional Issues II** Exploration of the roles of physical therapist in clinical practice and ethical and legal dilemmas faced by physical therapists; design of a professional development plan.

**PT 8341 Seminar in Instruction and Consultation** The second of two courses addressing the role of the therapist as educator. Emphasis on student facilitated instruction using a variety of pedagogical approaches, active learning strategies, instructional technologies, and assessment

**PT 8352 Health and Wellness** The first component of this course addresses cardiopulmonary rehabilitation of individuals with cardiopulmonary system dysfunction, and health and wellness issues relevant to Physical Therapy. The second component of this course is focused on health and wellness of the elderly.

**PT 8373 Complementary and Alternative Medicine** An overview of complementary and alternative medicine with emphasis on current research information pertaining to the safety and effectiveness of representative therapies and the application of research evidence in the context of physical therapy practice.

**PT 8473 Cultural Competence in the Delivery of Health Care** Self-assessment of awareness, knowledge, sensitivity and acceptance of the importance of cultural issues in a culturally diverse health care environment; definition/components of culture, cultural values, cultural competence, health/healing, transcultural communication, fostering cultural competence in other health care workers.

**PT 8571 Research IV** The fourth of four mentored research courses culminating in a project suitable for presentation or publication, with the fourth course focusing on the development and defense of the final research project and its submission for publication or presentation.

**PT 8585 Clinical Education V** ~~The fifth of six~~ **One of a series of** supervised clinical education courses ~~spanning 5 weeks~~, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses. **Prerequisite: PT 8263**

**PT 8653 Neuromuscular II** Examination, assessment and treatment planning for pediatric population with a broad spectrum of neurological conditions, including cerebral palsy, genetic disorder, etc. Prerequisite: PT 8143 Neuromuscular I.

**PT 8674 Musculoskeletal III** The terminal course in Musculoskeletal sequence. Intended to offer the student an opportunity to engage in an intensive and comprehensive immersion into the management of the patient with musculoskeletal II dysfunction leading to effective clinical practice. Prerequisites: PT 8254 Musculoskeletal II.

**PT 8685 Clinical Education VI** The sixth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8773 Neuromuscular IV** Evaluation, assessment, and treatment planning for individuals with brain injury due to cerebrovascular accident, traumatic brain injury, tumor or infection; management of patients with Parkinson's disease, Huntington's disease and complex neuromuscular problems. Prerequisite: PT 8753 Neuromuscular III.

Code #

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		Vice Chancellor for Academic Affairs	Date

**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 8685 Clinical Education VI** One of a series of supervised clinical education courses, which provides students an opportunity to integrate academic coursework into actual clinical practice in inter-professional and non-traditional settings.

**3. Effective Date**

Spring 2012

**4. Justification**

The change removes reference to the number of courses in the clinical education series and the number of weeks of the experience; the number of courses does not have educational significance and is being changed with modification to other courses in the series. Removing the reference to the number of weeks provides flexibility in planning the experiences.

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**PT 8263 Clinical Education IV** The fourth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8272 Professional Issues II** Exploration of the roles of physical therapist in clinical practice and ethical and legal dilemmas faced by physical therapists; design of a professional development plan.

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**PT 8571 Research IV** The fourth of four mentored research courses culminating in a project suitable for presentation or publication, with the fourth course focusing on the development and defense of the final research project and its submission for publication or presentation.

**PT 8585 Clinical Education V** The fifth of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8653 Neuromuscular II** Examination, assessment and treatment planning for pediatric population with a broad spectrum of neurological conditions, including cerebral palsy, genetic disorder, etc. Prerequisite: PT 8143 Neuromuscular I.

**PT 8674 Musculoskeletal III** The terminal course in Musculoskeletal sequence. Intended to offer the student an opportunity to engage in an intensive and comprehensive immersion into the management of the patient with musculoskeletal II dysfunction leading to effective clinical practice. Prerequisites: PT 8254 Musculoskeletal II.

**PT 8685 Clinical Education VI** ~~The sixth of six~~ **One of a series of** supervised clinical education courses **spanning 5 weeks**, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8773 Neuromuscular IV** Evaluation, assessment, and treatment planning for individuals with brain injury due to cerebrovascular accident, traumatic brain injury, tumor or infection; management of patients with Parkinson's disease, Huntington's disease and complex neuromuscular problems. Prerequisite; PT 8753 Neuromuscular III.



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**1. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 8754 Neuromuscular III** Management of neuromuscular conditions associated with upper motor neuron pathology. Focus will include physical therapy examination, evaluation, diagnosis, prognosis and treatment planning/strategies.  
 Prerequisites: PT 7314, PT 8143

**3. Effective Date**

Spring 2012

**4. Justification**

Course description was revised to more concisely describe the content covered in this course. Based on faculty review and student feedback, an additional course credit hour is being added to allow time needed to adequately cover course material. Currently, the course meets additional class time to meet accreditation needs but the additional class time is not reflected in the course credit hours.

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**PT 87534 Neuromuscular III Examination, assessment, and treatment planning neuromuscular conditions involving the spinal cord (traumatic and nontraumatic) and vestibular system.** Management of neuromuscular conditions associated with upper motor neuron pathology. Focus will include physical therapy examination, evaluation, diagnosis, prognosis and treatment planning/strategies. Prerequisites: PT 7314, PT 8143

**PT 8872 Clinical Decision Making Models for clinical reasoning and decision making;** factors **infl-uencing influencing** clinical decisions; management of complex patient problems.

#### **SOCIAL WORK**

**SW 5003 Human Behavior and the Social Environment I** This course provides the student with a broad understanding of how individuals develop from birth to older age from psychological, psychiatric, Sociological, Social psychological, and human diversity perspectives. Prerequisite course is SW 5323. This course is restricted to graduate social work majors.

**SW 5023 Foundations of Practice I** This course will introduce the student to social work practice with individuals. Social, psychological, economic, and biological stressors are considered as they impact on the individual. The development approaches are the major orientations presented, augmented by various intervention modalities. This course is restricted to graduate students in the MSW program.

**SW 5043 Foundations of Practice II** Focus of this course is on the theory and practice of social group work in clinical settings. Consideration is given to such issues as group dynamics, leadership, composition, direct and indirect intervention, the use of group activities under various conditions and different settings. Prerequisite SW 5023 and Graduate Social Work Student

**SW 5053 Social Welfare Policy/Services** The purpose of this course is to establish the subject area of social welfare policy as a central concern of social work. The goals of the course are to help students identify socio-cultural and economic bases of social welfare in America. Prerequisite: This course is restricted to graduate social work students.

**SW 5063 Social Justice and Diversity** This course focuses on issues of diversity, oppression and social justice. It is designed to prepare social work students to be knowledgeable of people's biases. Prerequisite: This course is restricted to graduate social work students.

**SW 5113 Graduate Intro to Social Work** This is a graduate level introductory course for students who have baccalaureate degrees in **fi-elds fields** other than social work. This course will provide students with an opportunity to explore the social work profession. Prerequisite: Graduate students only.

**SW 5223 Rural Social Work** This course is designed to explore the unique aspects of social work practice in rural areas using an ecosystems perspective. The roles and functions of social workers will be addressed as well as the ethical dilemmas frequently encountered in rural practice. Prerequisite: Graduate Social Work Student

**SW International Social Work** The course examines the effects of globalization on human needs. Special attention is given to linkages between human rights, social justice, and social work. The course explores **specifi-e specific** problems such as HIV, street children and domestic violence in developing countries as well as strengths and resiliency demonstrated by these countries. Prerequisite: Graduate Social Work student.

**SW 5273 Practicum in Addiction Studies** The **fi-rst first** practicum experience of 180 hours in an agency whose primary clients are in substance abuse recovery. Students will receive onsite supervision from clinical supervisors with special training and credentials in substance abuse. Students will meet as a group weekly for faculty supervision. Prerequisite: SW 5323 Substance Abuse: Intervention and Treatment.

**SW 5293 Practicum in Addiction Studies II** The second practicum experience of

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Shawn Drake, Arkansas State University, Department of Physical Therapy, PO Box 910, State University, AR 72467  
[sdrake@astate.edu](mailto:sdrake@astate.edu) 870-972-3591

**2. Proposed Change**

**PT 7832 Clinical Education II** One of a series of supervised clinical education courses, which provides students an opportunity to integrate academic coursework into clinical practice in inter-professional and non-traditional settings.  
 Prerequisite: PT 7733

**3. Effective Date**

Spring 2012

**4. Justification**

This clinical education course is being modified to ensure students are exposed to an inter-professional and other non-traditional environments during clinical education. Exposure to these types of clinical practice experiences is consistent with emerging physical therapist practice expectations as well as educational outcomes identified by national physical therapist education standards. Furthermore, the change removes reference to the number of courses in the clinical education series and the number of weeks of the experience; the number of courses does not have educational significance and is being changed with modification to other courses in the series. Removing the reference to the number of weeks provides flexibility in planning the experiences.

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**Copied from Page 209 of Graduate Bulletin 2010-2011:**

principles from anatomy, physiology, and biomechanics to clinical procedures of massage, manual therapy, therapeutic exercise and basic patient care skills. In addition documentation for physical therapist is covered.

**PT 7612 Methods of Instruction and Consultation** The first of two courses addressing the role of the therapist as educator, with emphasis on principles and methods of effective instruction, feedback, and consultation along with the various forms of educational and instructional technologies to present information.

**PT 7624 Electrotherapy and Physical Agents** Introduction to the theory and applications of thermal modalities and electrotherapy to human tissue. Indications, contraindications, and precautions for thermal modalities, and electrotherapy are covered. Clinical decision making and appropriate applications of the modalities are emphasized.

**PT 7733 Clinical Education I** The first of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 7833 7832 Clinical Education II** ~~The second of six~~ One of a series of supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate ~~previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.~~ academic coursework into clinical practice in inter-professional and non-traditional settings. Prerequisite: PT 7733

**PT 8143 Neuromuscular I** Theoretical foundations of neuromuscular rehabilitation including normal and abnormal movement, neuroplasticity, limbic functions; principles of differential diagnosis, psychosocial aspects of neuromuscular disorders; medical and nonmedical interventions including basic pharmacology. Prerequisites: PT 7224 and PT 7314.

**PT 8151 Research III** Third mentored research course culmination in a project suitable for presentation or publication, focusing on implementation of the research project and gathering of pertinent data as outlined in the research proposal. Prerequisite: PT 7141 Research II.

**PT 8163 Clinical Education III** The third of six supervised clinical education courses spanning 5 weeks, which provides students an opportunity to integrate previously learned academic coursework into actual clinical practice, culminating with entry level performance at conclusion of all clinical education courses.

**PT 8172 Administration II** The second administrative course addressing principles of health administration. Emphasis on nuances in patient care, federal reimbursement, and clinical administration across the US healthcare system including acute, skilled nursing, home health, outpatient, and hospice care. Prerequisite: PT 7343 Administration I.

**PT 8181 Independent Study and Cumulating Experience** This is an independent study that is designed to meet the individual needs of the student. The course work is designed on an individual basis.

**PT 8244 Musculoskeletal I** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 7624

**PT 8254 Musculoskeletal II** Management of musculoskeletal cases of the upper and lower extremities incorporating anatomy, biomechanics, pathology, clinical diagnosis, and intervention. Emphasis is on clinical decision making in all patient-therapist interaction. Education, prevention, ergonomics, pain management, and conditioning also covered. Prerequisite: PT 8244 Musculoskeletal I.

## Program and/or Course Deletion Proposal-Bulletin Change Transmittal Form

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 \_\_\_X\_\_\_ Graduate Council Print 1 copy for signatures and send 1 electronic copy to [mmcginnis@astate.edu](mailto:mmcginnis@astate.edu)

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College Dean	Date	Graduate Curriculum Committee Chair	Date
		Vice Chancellor for Academic Affairs	Date

<b>1. Program and/or Course Title, Prefix and Number</b> ZOOL 6702 (BIO 6362) Endocrinology ZOOL 6712 (BIO 6372) Laboratory for Endocrinology
<b>2. Contact Person</b> (Name, Name of Institution, Address, Email Address, Phone Number) DF Gilmore, Dept of Biological Sciences, <a href="mailto:dgilmore@astate.edu">dgilmore@astate.edu</a> , 972-3263
<b>3. Last semester student can graduate with this degree and/or last semester course will be offered</b> These courses have not been taught in approximately 10 years.
<b>4. Student Population</b> The program and/or course was initially created for what student population? How will deletion of this program and/or course affect those students?  Graduate electives in zoology. Have not been offered, so no student impacts.
<b>5. How will this affect the department? Does this program and/or course affect another department? If yes, please provide contact information from the Dean, Department Head, and/ or Program Director whose area this affects.</b>  Deletion will have no effects.
<b>6. (For courses only) Will another course be substituted? If yes, what course?</b>  No replacement planned. These courses have not been taught since Biology reorganized its course prefix and numbering system. They were given new numbers, but never coded into the Banner system. One of the BIO course numbers has been applied to a different course. There are no plans to teach these courses, so they are being formally deleted to "clean up the books".

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ing of how the nervous system functions on a molecular and cellular level through lectures and discussions of original scientific papers related to lecture topics. Three hours per week.

Prerequisite: Course(s) in basic neurobiology or permission of instructor.

~~**BIO 6362 Endocrinology** A survey of the endocrine organs with emphasis on man, including hormone effect at the tissue, cell, and molecular levels. Lecture two hours per week. Prerequisites: BIO 2203 AND 2223 OR 3223 AND 3233; CHEM 4243, BIO 4133 OR 4123, CHEM 3101.~~

~~**BIO 6372 Laboratory for Endocrinology** Four hours per week. To be taken concurrently with BIO 6362. (Course fee, \$5)~~

**BIO 6351 Laboratory for Comparative Physiology** Three hours per week. To be taken concurrently with BIO 6353. (Course fee, \$5)

**BIO 6353 Comparative Physiology** Comparison of nutrition, water balance, excretion, transport mechanisms, temperature regulation, metabolism, reproduction and nervous coordination set in a phylogenetic format. Emphasis would be on the evolution of animal processes in relation to the environment. Lecture three hours per week. Prerequisites: BIO 1301, 1303.

## **ENVIRONMENTAL SCIENCES**

**ESCI 6131-3 Independent Research in Environmental Sciences:** (Subtitle varies)

Independent investigations by a student or students directed by faculty and researchers that culminate in the development of or training in new techniques for the production of published findings. As with other independent study courses, the supervising faculty member, number of credit hours and project description will vary. May be repeated. Prerequisites: Admission to the Ph.D. program or consent of instructor.

**ESCI 6141-3 Environmental Sciences Internship** Off-campus directed experience with environmental management and research with agencies, industries, consultants, municipalities, nonprofit groups or applicable institutions and operations. Independent work experiences by students directed by faculty and mentored by sponsors that culminate in elaboration of their focus area through professional exposure and training. As with similar independent study courses, the supervising faculty member, number of credit hours and project description will vary. May be repeated. Prerequisites: Admission to the Ph.D. program or consent of instructor and sponsor.

**ESCI 6233 Environmental Issues in Latin America and the Caribbean** This is a seminar course on current environmental topics in Latin America and the Caribbean. Only prerequisite will be permission from the instructor. This course is aimed at providing students with a broad perspective of environmental issues on Latin America and the Caribbean so they gain an understanding on the nature of environmental problems in that part of the world from an interdisciplinary perspective. By doing so, students will gain a more global perspective of environmental problems and solutions as well as better critical thinking skills in viewing issues from different cultural viewpoints.

**ESCI 6303 Global Water Issues** Overview of current and historical water quality and quantity issues shaping human civilization. Emphasizes water issues facing regions of dense population and intensive agriculture. Importance of ground and surface water, ecosystems, sustainability, economic and policy issues of water are investigated.

**ESCI 6323 Population Community Ecology** An overview of principles, applications, and modeling of population and community ecology.

**ESCI 6333 Landscape and Ecosystem Ecology** This course offers an in-depth study of the principles, applications, and modeling of landscape and ecosystem ecology.

**ESCI 6503 Science Communication for Scientists** The goal of the course

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**1. Program and/or Course Title, Prefix and Number**

SCOM 6223, Applied Communication Research

**2. Contact Person** (Name, Name of Institution, Address, Email Address, Phone Number)

Marceline Thompson-Hayes, Ph.D.  
 Associate Professor & Interim Department Chair  
 Department of Communication Studies  
 Arkansas State University  
 Communications Building RM 338  
 P.O. Box 367  
 State University, AR 72467  
 Private office: 870.972.2816  
 Departmental office: 870.972.3091  
 Fax: 870.972.3856  
 Email: [mhayes@astate.edu](mailto:mhayes@astate.edu)

**3. Last semester student can graduate with this degree and/or last semester course will be offered**

Spring 2011

**4. Student Population** The program and/or course was initially created for what student population? How will deletion of this program and/or course affect those students?

Students in the Master of Arts in Communication Studies program

**5. How will this affect the department? Does this program and/or course affect another department? If yes, please provide contact information from the Dean, Department Head, and/ or Program Director whose area this affects.**

The deletion of this course will not affect the department or other departments or programs.

6. (For courses only) Will another course be substituted? If yes, what course?

SCOM 6253, Qualitative Research Methods

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## **MASTER OF ARTS DEGREE WITH A MAJOR IN COMMUNICATION STUDIES AND THEATRE**

The Master of Arts in Communication Studies and Theatre is co-offered by the Department of Communication Studies, College of Communications, and the Department of Theatre, College of Fine Arts. The graduate student's adviser should come from the Department of Communication Studies if the student's primary interest is communication, or from the Department of Theatre if the student's primary interest is theatre.

### **Admission Requirements**

Applicants seeking admission to the Master of Arts degree in Communication Studies and Theater must submit a sample of writing, which could be a recent term paper or research paper.

A student may concentrate in either communication studies or theatre arts, and may complete at least six hours in the other area. With approval of the adviser, a student may complete up to six hours in cognate courses.

### **Courses required of all candidates with communication studies concentration**

SCOM 6203 Introduction to Graduate Study

**SCOM 6043, Communication Theory**

**~~SCOM 6223, Applied Research in Communication Studies~~**

SCOM 6053, Quantitative Research Methods OR MCOM 6053, Research Methods in Mass Communication

**SCOM 6253, Qualitative Research Methods in Communications**

### **Courses required of all candidates with theatre concentration**

THEA 6203, Introduction to Graduate Study AND

THEA 6253, Seminar in Production

**Minimum hours required for this program: 30**

## **MASTER OF SCIENCE IN MASS COMMUNICATIONS DEGREE**

The Master of Science in Mass Communications offers majors in journalism and in radio-television. Focusing on research and scholarship, the flexible curriculum provides opportunities for students interested in pursuing advancement in mass communications or preparing for doctoral studies and positions in higher education. Some students with limited mass communications background may be required to complete some undergraduate and graduate performance courses as part of their programs of study.

### **Admission Requirements**

Admission to the Master of Science in Mass Communications program is based on a variety of evidence, including educational experience and record, professional experience, recommendations, and a written statement of purpose.

### **Courses required of all candidates**

MCOM 6043, Theory of Mass Communications



Revised 09/10/2009

MCOM 6053, Quantitative Research Methods in Communications

MCOM 6203, Introduction to Graduate Study

MCOM 6253, Qualitative Research Methods in Communications

**Courses required of Journalism majors**

Twelve hours selected from the following:

MCOM 5023, Public Opinion, Propaganda and the Mass Media

MCOM 5603, Crisis Communication

MCOM 6023, Advanced Studies in Communications Law

MCOM 6801-3, Independent Study

JOUR 5043, Studies in Newspaper Management

JOUR 5053, Public Affairs Reporting

JOUR 5083, Sports, Business and Opinion Writing

JOUR 5113, Integrated Communications Strategies

JOUR 5323, Race, Gender and Media

JOUR 5373, Internet Communications

JOUR 6013, Specialized Reporting Problems

JOUR 6023, Journalism Seminar

**Courses required of Radio-Television majors**

Twelve hours selected from the following

MCOM 5023, Public Opinion, Propaganda and the Mass Media

MCOM 6023, Advanced Studies in Communications Law

MCOM 6801-3, Independent Study

RTV 5063, International Communication Seminar

RTV 5323, News Production and Performance

RTV 5333, Special Topics

RTV 5363, Multimedia Storytelling

RTV 5373, Internet Communications

RTV 5473, Advanced Internet Communications

RTV 5553, Multimedia Reporting

RTV 5573, Sportscasting

RTV 6023, Advanced Studies in Broadcast Management

RTV 6033, The Broadcast Documentary

**Electives required of all candidates**

Six hours of graduate-level electives, subject to approval of student's adviser. The six hours may include six hours of thesis credit, courses in the college and/or courses outside the college. The topic of the thesis is subject to approval by the student's thesis committee. The thesis may be a continuation or extension of research begun in a Communications graduate class.

**Minimum hours required for these programs: 30**

**CERTIFICATE IN HEALTH COMMUNICATION**

The health care industry continues to grow in structure, size, and complexity with the advent of new technologies and the demands of an aging population. According to the U.S. Census Bureau's website, the nation's population will increase by 18 percent between 2000 and 2020. Thus, an additional 50 million people will need to have their health care needs met. Moreover, by 2020, persons 85 years and older will represent the fastest growing segment of the population. They will be major users of health care facilities and services.

Communication training for health care providers and consumers can help prepare individuals to effectively meet the communicative demands of health care practice. Specially, consumers must be able to communicate effectively with their health care providers to achieve their goals and providers must be able to communicate effectively with clients and co-workers to competently perform their duties. Moreover, the role of media and health information dissemination is an important variable in informing consumers about health related matters which may affect how they communicate with health care providers.

The courses selected for the certificate in health communication are chosen for their applicability for individuals working in the health care industry and for consumers who wish to understand the role of communication in health care processes and outcomes.

Core: 12 hours

SCOM 5402, Seminar in Health Communication

SCOM 5243, Interpersonal Communication OR SCOM 6243, Seminar in Interpersonal



Revised 09/10/2009

## Communication

SCOM 5253, Intercultural Communication

NURS 6483, Ethics in Health Care

Electives: 6 hours

COUN 6423, Psychological Aspects of Aging

ELSE 6023, Characteristics of Individuals with Disabilities

NHP 5103, Patient Education

HP 5453, Health Care Administration

HP 6023, Health Policy and Economic Issues

HP 6113, US Health Care OR NURS 6833, American Health Care System

NURS 6303, Health Care Issues and Policy

MCOM 5603, Crisis Communication OR SCOM 5263 Organizational Communication

MGMT 6003, Organizational Behavior in Health Care Organizations

MGMT 6013, Human Resource Management for Health Care Organizations

## **SPECIALIST IN COMMUNITY COLLEGE TEACHING**

The 60 graduate hours, including the Master's degree, which are required for the Specialist in Community College Teaching degree include the following:

Teaching Fields 39 Semester Hours

Community College Core 12 Semester Hours

Teaching Core 9 Semester Hours

A detailed description of this program, along with specific requirements, is presented in the Specialists in Education Degree program under the College of Education.

**Minimum hours required for this program: 30 plus a master's degree**

## **COLLEGE OF COMMUNICATIONS GRADUATE COURSE DESCRIPTIONS**

### **Mass Communications**

**MCOM 5023 Public Opinion** Propaganda and the Mass Media Survey of public opinion formation and change, with special attention to the role of the mass media in the creation and use of public opinion and propaganda. (Also listed as PR 4023.)

**MCOM 5603 Crisis Communication** An investigation of communications during crises, focusing on public relations, advertising and other persuasive efforts by institutions, corporations, movement leaders, and citizens to describe, persuade and shape human interactions with their environment during a crisis.

**MCOM 6023 Advanced Studies in Communications Law** An advanced study of communications law problems, issues, and responsibilities. Selected publications in the field will be examined. Individual projects concerning legal problems in freedom and responsibilities of the mass media.

**MCOM 6043 Theory of Mass Communications** Study of mass communications models, theory development, mass communications theories and theory relationships to research in mass communications.

**MCOM 6053 Quantitative Research Methods in Communications** Study of the tools and techniques of empirical research as they may be applied to mass communications.

### **MCOM 6063 Interpretative Research Methods in Mass Communication**

This course is intended to provide the student with the basic skills needed for understanding, rather than predicting or controlling, phenomena. Included will be discussion of and practice in basic phenomenological description, structural analysis, research interviewing, and qualitative research reporting. Co-requisite: MCOM Theory of Mass Communication

**MCOM 6163 Applied Research in Mass Communications** Guided research dealing with practical problems in mass communications. A primary outcome of the course will be a formal research paper acceptable for publication. Prerequisite: MCOM 6053.

**MCOM 6203 Introduction to Graduate Study** Survey of research methods; evaluation of selected studies; preparation of thesis.

**MCOM 6253 Qualitative Research Methods in Communication** This course is designed to acquaint students with major approaches to qualitative inquiry in the field of communication. Students will gain experience in collecting, analyzing, and interpreting qualitative data as well as writing qualitative research reports.

### **MCOM 6701-6 Thesis**

### **MCOM 6801-3 Independent Study**

## **Journalism**

**JOUR 5043 Studies in Newspaper Management** Study of business and editorial

management of the print media, including newspaper organization, publishing policies and economics, print media technology, circulation and promotion problems.

**JOUR 5053 Public Affairs Reporting** Instruction and practice in gathering material and writing stories on public affairs; emphasis on courts and government. Requires two hours of laboratory work per week. Prerequisite: JOUR 2013.

**JOUR 5083 Sports, Business and Opinion Writing** Techniques of news-writing and information gathering in business and sports reporting. Techniques of opinion writing. Prerequisite: C or better in JOUR 2013 or permission of professor or chair.

**JOUR 5113 Integrated Communications Strategies** Focuses on the strategic integration of various channels and methods of communication for the purpose of delivering key messages to diverse target audiences in order to elicit responses, create a dialogue and engender relationship-building. Prerequisites: JOUR 3023; PR 3003; or MKTG 3013.

**JOUR 5323 Race, Gender and Media** Survey of the interface between Americans and the mass media in the United States.

**JOUR 5373 Internet Communications** Provides students with a thorough understanding and practice in the use of the Information Superhighway. Students will develop skills and strategies to access and create news, advertising, and public relations messages in this new electronic medium for mass communications. The course will also look at new opportunities for communications professionals, examine critical social, political, and economic issues for the medium, and prepare for future technological advances. Prerequisite: basic computer competency.

**JOUR 5473 Advanced Internet Communications** Advanced Internet Communication provides students with a thorough understanding and practice in interactive and online content production and/or delivery. The course also explores other new media opportunities available to communication professionals. Special Course Fees Apply.

**JOUR 5913 Media Advisers Seminar** To provide an overview of the issues and practices of scholastic journalism, and to enable secondary school journalism advisers to acquire and refine skills in writing, reporting, and design.

**JOUR 6023 Journalism Seminar** Study of the press as an institution; its problems, role, content, effects, and responsibilities as a cultural force in society.

#### **Radio-Television**

**RTV 5053 Public Affairs Reporting for Electronic Journalism** Coverage of municipal and county government agencies, public school boards, community planning and development agencies, and special events within the local community for the electronic media.

**RTV 5063 International Communication Seminar** Critical discussion and analyses of the social, cultural, economic, political, technological and institutional forces governing the exchange of mediated information across national frontiers.

**RTV 5303 Multimedia Reporting** Apply the basics of traditional journalism skills in the digital media practice and develop the abilities of integrating audio, photographs, graphics and video as multimedia storytelling tools to enrich online news coverage. Prerequisite: Basic computer competency.

**RTV 5323 News Production and Performance** Experience in producing news programs. Students exercise judgment and make editorial decisions about news content and program continuity. Experience in verbal and non-verbal communication relative to on camera delivery.

**RTV 5333 Special Topics** A seminar that addresses current topics in the area of communication.

**RTV 5363 Multimedia Storytelling** Introductory course in multimedia concepts, media elements, platforms, and production. Emphasis is placed on delivery of content across media platforms for diverse audiences.

**RTV 5373 Internet Communications** Provides students with a thorough understanding and practice in the use of the Information Superhighway. Students will develop skills and strategies to access and create news, advertising, and public relations messages in this new electronic medium for mass communications. The course will also look at new opportunities for communications professionals, examine critical social, political, and economic issues for the medium, and prepare for future technological advances. Prerequisite: basic computer competency.

**RTV 5473 Advanced Internet Communications** Advanced Internet Communication provides students with a thorough understanding and practice in interactive and online content production and/or delivery. The course also explores other new media opportunities available to communication professionals. Special Course Fees Apply.

**RTV 5573 Sportscasting** Theory and practical application of sportscasting for radio and television.

**RTV 6023 Advanced Studies in Broadcast Management** An advanced study of the elements, problems, and responsibilities of radio and television station management.

**RTV 6033 The Broadcast Documentary** This course provides for the graduate student in broadcasting an opportunity both to study the broadcast documentary, its structure and role, and to gain some hands-on practical experience in organizing, structuring, and producing this broadcast form.

#### **Communication Studies**

**SCOM 5203 Small Group Communication** Group and conference techniques for classroom, business, and professional situations.

**SCOM 5243 Interpersonal Communication** Emphasis on increasing the student's capacity for openness, sensitivity, and objective appraisal.

**SCOM 5253 Intercultural Communication** Identification of barriers, and breakdowns to communication among cultures.

**SCOM 5263 Organizational Communication** Dynamics and theories of communication within an organization.

**SCOM 5293 History and Criticism of American Public Address** Historical background and significance of leading orators in America.

**SCOM 5323 Communication in Personal Relationships** The course covers interpersonal communication in the context of personal relationships such as romantic relationships, friendships, professional relationships, and family relationships.

**SCOM 5373 Conflict Resolution** The conflict and communication course examines conflict as a communication variable created through interpersonal interaction in dyads, small groups, families, and organizations.

**SCOM 5383 Computer Mediated Communication** This course considers how identities, relationships and communities are created and influenced by our use of computers and the internet. We will gain understanding of these processes by engaging new media scholarship and activities involving different forms of new media.

**SCOM 5403 Seminar in Health Communication** Study of the major cultural, interpersonal, and public communication issues affecting health communication.

**SCOM 5423 Narratives in Health and Healing** Explores the social construction of health, illness and healing through the study of narrative.

**SCOM 6043 Communication Theory** Theories, models, and approaches relevant to the study of communication.

**SCOM 6053 Quantitative Research Methods in Communications** Study of the tools and techniques of empirical research as they may be applied to mass communications.

**SCOM 6203 Introduction to Graduate Study** Survey of research methods; evaluation of selected studies; preparation of thesis.

~~**SCOM 6223 Applied Research in Communication Studies** A study of the practical problems in research in communication studies. Prerequisite: Either ELFN 6773 Introduction to Statistics and Research OR MCOM 6053 Research Methods in Mass Communication.~~

**SCOM 6253 Qualitative Research Methods in Communication** This course is designed to acquaint students with major approaches to qualitative inquiry in the field of communication. Students will gain experience in collecting, analyzing, and interpreting qualitative data as well as writing qualitative research reports.

**SCOM 6243 Seminar in Interpersonal Communication** This course is designed to introduce students to foundational as well as current theory and research in interpersonal communication. Students will examine several interpersonal communication contexts and processes as well as methodologies in interpersonal communication.

**SCOM 6233 Communication Education** A study of the history and philosophy of the pedagogy of communication studies, to include both theoretical and applied aspects of the discipline.

**SCOM 6603-6 Internship in Communication Studies** Combines relevant work experience with classroom theory.

**SCOM 6701-6 Thesis**

**SCOM 6801-3 Independent Study**