

TO: Members of the Graduate Studies Curriculum Subcommittee  
 FROM: Carlotta Parr, Chair  
 832-3317; parrc@ccsu.edu  
 SUBJ: March 14, 2013, Meeting at 3:00 in the Student Center, Room 1849

Members in Attendance: Carlotta Parr, Chair (Music); Eric Leonidas (English); Bill Nelson (Special Education); Eleanor Thornton (Design); Wu, Shuju (Computer Electronics and Graphics Tech); Mark Jackson (Chair, Curriculum Committee); Don Adams, (Rep. for Dean of Arts & Sciences); Paulette Lemma, Dean of Graduate Studies; Susan Seider, Chair of Graduate Studies Committee

## MINUTES

I. Revised Minutes of February 21, 2013: Approved

### II. Old Business

- A. The committee **approved** the following **course revision** from the **Geography Department** (Howook Chang, Representative). The course revision is described below.

<b>A. Geography</b>			
1.1	<b>Course Revision:</b> <a href="#">GEOG 578 Internet GIS and Mapping</a> Revise to: GEOG 578 Advanced GIS and Mapping 3 Prereqs: <b>Admission to the MS In Geography</b> <del>Planned program of study in MS</del> or permission of instructor. Advanced study of Principles and practices of GIS and Mapping. F (O)	<b>APPROVED AS AMENDED</b>	AS, GR

- B. The committee **approved** the following **course revision** from the **Manufacturing and Construction Management Department** (Jacob Kovel, Representative). The course revision is described below.

<b>B. Manufacturing and Construction Management</b>			
2.1	<b>Course Revision:</b> <a href="#">TM 456 HAZWHOPPER &amp; Hazardous Material Management</a> Revise to: TM 456 Hazardous Material Management 3 Study of environmental regulations and their impact on industrial operations. Emphasis is on application of statutes, regulations and information sources concerning hazardous materials, waste handling and technical decisions pertinent to environmental and safety issues. Spring (O) (GR) <b>Approved at SET</b>	<b>APPROVED</b>	SET, GR

### III. New Business

- A. The committee **approved** the following **course additions, course revision, and Program Revision** from the **Manufacturing and Construction Management Department** (Jacob Kovel, Representative). The course additions, course revision, and program revision are described below.

<b>A. Construction Management</b>			
3.1	<b>Course Addition:</b> <a href="#"><u>CM 555 Construction Project Controls</u></a> <b>Prop. Desc.:</b> Application of software to control costs, quality and as it applies they apply to a construction project.	<b>APPROVED AS AMENDED</b>	SET, GR
3.2	<b>Course Addition:</b> <a href="#"><u>CM 595 Applied Research in Construction Management</u></a> <b>Prop. Desc.:</b> Completion of an advanced special project in construction under the supervision of a faculty member. Requirements include a paper and an oral presentation on the project. <b>CM Applied Research Capstone Plan C.</b>	<b>APPROVED AS AMENDED</b>	SET, GR
3.3	<b>Course Revision:</b> <a href="#"><u>596 Topics in Construction Management</u></a> <b>Change Course Description:</b> Topics of interest in the construction management field not currently covered by the construction management curricula. Students may take this course under different topics for a maximum of 9 credits.	<b>APPROVED</b>	SET, GR
3.4	<b>Program Revision:</b> <a href="#"><u>MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT</u></a> Course and Capstone Requirements: 33 credit program consisting of 15 credits of common core (CM 505, CM 515, CM 545, CM 575, TM 594), <b>15-18</b> credits of electives selected jointly by the student and advisor, and a zero-credit Plan B (Comprehensive Exam) capstone or a 3-credit Plan C (CM 595: <b>Planned Research Project</b> ). Students without a formal construction management education background will may be required to take CM 500 (Fundamentals of Construction Management) as a prerequisite condition of admission into the program. If required, CM 500 will not be counted toward completion of the degree. <b>Proposed Description:</b> <ul style="list-style-type: none"> <li>• Delete CM 595 Applied Research in Construction as an elective.</li> <li>• A maximum of 9 credits may be selected from: Business Management, Engineering Technology (Civil or Mechanical), Natural Sciences, Technology Management</li> </ul>	<b>APPROVED AS REVISED</b>	SET, GR

- B. The committee **approved** the following **course addition, course revision, and Program revision** from the **History Department** (Mark Jones, Representative). The course additions, and Program revision are described below.

<b>B. History</b>			
4.1	<b>Course Addition:</b> <a href="#"><u>HIST 530 Seminar in Ancient History</u></a> <b>Proposed prereqs.:</b> Admission to the M.A. Program in History or Public History and or permission of department chair.	<b>APPROVED AS AMENDED</b>	AS, GR
4.2	<b>Course Addition:</b> <a href="#"><u>HIST 502 Historiography</u></a>	<b>TABLED</b>	AS, GR
4.3	<b>Program Revision:</b> <a href="#"><u>MASTER OF ARTS IN HISTORY</u></a>	<b>TABLED</b>	AS, GR

- C. The committee **approved** the following **course revision** from the **Biomolecular Science Department** (Betsy Dobbs McAuliffe, Representative). The course revision is described below.

<b>C. Biomolecular Science</b>			
5.1	<b>Course Revision:</b> <a href="#"><u>BMS 506 Biosynthesis, Bioenergetics, and Metabolic Regulation</u></a> <b>Change prereqs to:</b> BMS 306 or BMS 307 or BMS 311, or BMS 316; and CHEM 210 and 211, or permission of department chair	<b>APPROVED</b>	AS, SET, GR

- D. The committee **approved** the following **course addition and Program revision** from the **International Studies Department** (David Kideckel, Representative). The course addition, and program revision are described below.

<b>D. International Studies</b>			
6.1	<b>Course Addition: IS 500 Practicing International Studies 3</b> <b>• Prop. Prereq: Admission to MS in International Studies</b> <b>• Introduction to the field of international studies. Defines the scope of the questions and the nature of practice in the field, and how scholars find materials for their research and writing. Addresses issues of intellectual integrity common to the scholarly community. Should be taken within the first year of matriculation in the MS in IS Program. Fall</b>	<b>APPROVED AS AMENDED</b>	AS, GR
6.2	<b>Program Revision: <a href="#">Master of Science in International Studies</a></b> <b>(See separate handout)</b> <b>Geographical Areas and/or Transnational Themes (18 Credits)</b> <b>Transnational Themes (6-12 credits)</b> <b>Research and Capstone Requirements (6 Credits)</b> <b>Language and/or Study Abroad Requirements</b> <b>Note: No more than <i>nine credits</i> at the 400 level, as approved by the graduate advisor, may be counted toward the graduate planned program of study.</b>	<b>APPROVED AS AMENDED (3-21-13)</b>	AS, SEPS, GR

- E. The committee **approved** the following **course revisions** from the **Psychological Sciences Department** (Marisa Mealy, Representative). The course revisions are described below. Following the Graduate Curriculum Committee meeting on March 14<sup>th</sup>, the Psychological Sciences Department decided to keep the I designation, and remove graduate credit from PSY 350: Cross-Cultural Psychology.

<b>E. Psychological Sciences</b>			
7.1	<b>Course Revision: <a href="#">PSY 350 Cross-Cultural Psychology</a></b> <b>Change course number to PSY 420</b> <b>Change prereqs to: 1. Admission to the MA in Psychology. 2. PSY 112 or permission of instructor 3. Open to students with junior or higher standing.</b> <b>Change Course Description:</b> Explores human behavior in a global context. Emphasis will be placed on the influence of cultural factors on behavior, cognition, emotion, mental/physical health, and group dynamics. [I][GR] <b>Add: Graduate credit</b>	<b>DELETED (3-21-13)</b>	AS, GR
7.2	<b>Course Revision: <a href="#">PSY 430 Psychology of Diversity</a></b> <b>• Change Course Title to: Intergroup Relations</b> <b>• Change prereqs to: 1. Admission to the MA in Psychology. or 2. PSY 112 or permission of instructor 3. Open to students with junior or higher standing.</b> <b>• Change Course Description:</b> Focuses on the impact of social categorization on human psychology. Examines the motivational, cognitive, and socio-structural factors that contribute to diverse perspectives and social relations within a national context. Topics may include stereotyping, prejudice, gender issues, race relations, and multiculturalism. [D] [GR] <b>• ADD: Graduate credit</b>	<b>APPROVED AS AMENDED (3-21-13)</b>	AS, GR
7.3	<b>Course Revision: <a href="#">PSY 541 Health Psychology</a></b> <b>Change prereqs to: Admission to graduate program in MA Psychology or permission of instructor.</b>	<b>APPROVED</b>	AS, GR
7.4	<b>Course Revision: <a href="#">PSY 550 Introduction to Community Psychology</a></b> <b>Change prereqs to: Admission to graduate program in MA in Psychology or permission of instructor</b>	<b>APPROVED</b>	AS, GR
7.5	<b>Course Revision: PSY 571 Psychology of Women's Health</b> <b>Change prereqs to: Admission to graduate program in MA in Psychology or permission of instructor</b>	<b>APPROVED</b>	AS, GR

- F. Due to a lack of quorum, the committee was not able to approve the following **course revisions, course additions, new Program addition** from the Technology and Engineering Education, and Science **Departments** (Jeff Jackson, Representative). The curricular changes described below, were reviewed by the representative from the department, Dean Lemma, Mark Jackson, and Carlotta Parr on March 14, and were **approved** at the Graduate Studies Committee meeting on March 21<sup>st</sup>.

<b>F. Technology and Engineering Education (STEM)</b>			
8.1	<b>Course Revision: <u>SCI 580 Topics in STEM Science Education</u></b> <b>Change course desc. to:</b> Science, Technology, Engineering and Math (STEM) topics will vary each time course is offered. Combination of lecture, discussion, inquiry sessions, and student presentations. May be taken more than once for credit under different topics.	<b>APPROVED</b>	AS, SET, GR
8.2	<b>Course Addition: <u>STEM 501 Applying Mathematical Concepts</u></b> <ul style="list-style-type: none"> <li>• <b>Prop. Prereq.:</b> Admission to the MS in STEM Education program</li> <li>• <b>Course Desc.:</b> Integrating and assessing K-12 students' attainment of grade-appropriate mathematics content and abilities. Focus on Connecticut common Core State Standards including the Standards for Mathematical Practice.</li> <li>• <b>Irregular</b></li> </ul>	<b>APPROVED</b>	AS, SET, GR
8.3	<b>Course Revision: <u>TE 506 STEM in Technology and Engineering Education</u></b> <ul style="list-style-type: none"> <li>• <b>Change TE descriptor to STEM</b></li> <li>• <b>Change course title to:</b> Problem Based Learning in STEM Education</li> <li>• <b>Prop. Prereq.:</b> Admission to the MS in STEM program</li> <li>• <b>Change course desc. to:</b> Study of techniques for integrating science, technology, engineering, and math (STEM) content in an engaged learning curriculum.</li> </ul>	<b>APPROVED</b>	AS, SET, GR
8.4	<b>Course Addition: <u>TE 517: Robotics Applications for in STEM Education</u></b> <ul style="list-style-type: none"> <li>• <b>Change TE descriptor to STEM</b></li> <li>• <b>Change Title to:</b> Robotics Applications in STEM Education</li> <li>• <b>Prop. Prereq.:</b> Admission to the MS in STEM Education program</li> </ul>	<b>APPROVED</b>	SET, GR
8.5	<b>Course Addition: <u>STEM 520 STEM Practices in the Physical Sciences</u></b> Prop. Prereq.: Admission to the MS in STEM Education program, <u><a href="#">or admission to any Master's program</a></u> <b>Course Desc.</b> Emphasis on conceptual understanding of the physical science core concepts and technology, engineering, and mathematics (STEM) practices outlined in the national Framework for K12 Science Education and Standards for Technological Literacy. Development of curricular and instructional activities, labs, and assessments for use in the classroom.	<b>APPROVED AS AMENDED</b>	SET, GR
8.6	<b>Course Addition: <u>TE 521 Engineering Design for in STEM Education</u></b> <b>Change TE descriptor to STEM</b> <b>Prop. Prereq.:</b> Admission to the MS in STEM Education program <b>Course Desc.</b> Introduction to the fundamentals of engineering design aligned with STEM topics. Design problems are selected from STEM disciplines. Topics include problem identification, brainstorming, project planning, development and design alternatives.	<b>APPROVED</b>	SET, GR
8.7	<b>Course Addition: <u>STEM 530 STEM Practices in the Earth/Space Sciences</u></b> Prop. Prereq.: Admission to the MS in STEM Education program, <u><a href="#">or admission to any Master's program</a></u> <b>Course Desc.</b> Emphasis on conceptual understanding of the earth/space science core concepts and technology, engineering, and mathematics (STEM) practices outlined in the national Framework for K12 Science Education and Standards for Technological Literacy. Development of curricular and instructional activities, labs, and assessments for use in the classroom. <b>Irregular</b>	<b>APPROVED AS AMENDED</b>	SET, GR

8.8	<b>Course Addition: <a href="#">Stem 540 STEM Practices in the Life Sciences</a></b> <b>Prop. Prereq.:</b> Admission to the MS in STEM Education program, <a href="#">or admission to any Master's program</a> <b>Course Desc.</b> Emphasis on conceptual understanding of the life science core concepts and technology, engineering, and mathematics (STEM) practices <del>outlined</del> in the national Framework for K12 Science Education and Standards for Technological Literacy. Development of curricular and instructional activities, labs, and assessments for use in the classroom. <b>Irregular</b>	APPROVED AS AMENDED	AS, SET, GR
8.9	<b>Course Addition: STEM 598 Research in STEM Education</b> <b>Prop. Prereq.:</b> Admission to the MS in STEM Education program <b>Course Desc.</b> STEM-oriented research project that addresses <del>and</del> immediate school-based issues or problems. Quantitative and/or qualitative methods with emphasis on reflective practices. Requirements include the preparation and submission of this scholarly work for publication. <b>Plan E Capstone.</b>	APPROVED	SET, GR
8.10	<b>Course Addition: STEM 595 Action Research in STEM Education</b> <b>Prop. Prereq.:</b> Admission to the MS in STEM Education program, completion of 24 credits in the STEM planned program (or permission of instructor), and a 3.00 overall GPA. <b>Course Desc.:</b> Review of current issues and related to science, technology engineering and math (STEM). Synthesize and summarize a variety of scholarly work to provide a new interpretation of a current issue. Requirements include preparation of a research paper for publication.	APPROVED	SET, GR
8.11	<b>Program Addition: MS Science, Technology, Engineering, and Math (STEM) Education for Certified Teachers</b> <b>1. Change Program Title to:</b> MS STEM Education for Certified Teachers <b>2. Academic Rationale:</b> The MS STEM for K-12 certified teachers will enable teachers to prepare students for the workforce and future STEM careers in Science, Technology, Engineering, and Math. It will expand upon the science, technology, engineering, and math practices and integration of trans-disciplinary curriculum development and assessment in the STEM areas with a focus on national and state content standards. <b>3. Addition of Learning Outcomes:</b> <ol style="list-style-type: none"> <li>Integrate and apply the practices of scientists and engineers into curriculum, instruction, and assessment for use in the classroom</li> <li>Demonstrate understanding of the role of inquiry in curriculum instruction, and assessment.</li> <li>Integrate the crosscutting concepts of STEM into curriculum, instruction, and assessment</li> <li>Apply disciplinary core ideas of STEM into curriculum, instruction, and assessment</li> <li>Construct a research plan and carry out independent research on a STEM topic</li> </ol> <b>4. Special Admission Requirements:</b> Open to PK-12 certified teachers	APPROVED	SET, GR

- G. Due to a lack of quorum, the committee was not able to approve the following **course deletions, course revisions, course additions, and Program Revisions** from the **Physical Education and Human Performance Department** (Kim Kostelis, Representative). The curricular changes described below, were reviewed by the representative from the department, Dean Lemma, Mark Jackson, and Carlotta Parr on March 14, and were **approved** at the Graduate Studies Committee meeting on March 21<sup>st</sup>. **Note: The Department should submit a proposal to the Graduate Policy Committee to define "Full Admission."**

G. Physical Education and Human Performance			
9.1	<b>Course Deletion: <a href="#">PE 525 Concepts in Athletic Administration</a></b>	APPROVED	SEPS, GR

<b>G. Physical Education and Human Performance (Cont'd)</b>			
9.2	<b>Course Deletion:</b> <a href="#">PE 524 Sport, Physical Education, Athletics, and the Law</a>	<b>APPROVED</b>	SEPS, GR
9.3	<b>Course Addition:</b> <a href="#">EXS 516 Foundations of Leadership for Sport and Exercise</a> <b>Prop. Desc.:</b> Explores leadership and followership theories and best practices for sport and exercise professionals. Discusses leader development programming; focuses on the talents, techniques, tactics, and styles of effective leaders and followers.	<b>APPROVED</b>	SEPS, GR
9.4	<b>Course Addition:</b> <a href="#">EXS 593 Advanced Physiology of Sport and Exercise II</a> <b>Prereqs:</b> Admission in MS in Physical Education; For Full-Admission a student should have a course in exercise physiology* <b>Prop. Desc.:</b> Using exercise physiology as a basis, examination of acute and chronic adaptations of the body to high physiological demands of physical activity and sport. Topics covered include bioenergetics, physiology of the skeletal system, cardiorespiratory system, and renal system. <del>Undergraduate course in exercise physiology is required for full admission to the MS in Physical Education Program.</del>	<b>APPROVED</b>	SEPS, GR
9.5	<b>Course Revision:</b> <a href="#">EXS 507 Human Perspective in Sport</a> <b>Change title to:</b> Sociological Foundations of Sport and Exercise	<b>APPROVED</b>	SEPS, GR
9.6	<b>Course Revision:</b> <a href="#">EXS 515 Sport, Physical Activity, and Exercise Psychology</a> 1. <b>Change title to:</b> Foundations of Sport and Exercise Psychology 2. <b>Add Prereq:</b> Admission to MS in Physical Education	<b>APPROVED</b>	SEPS, GR
9.7	<b>Course Revision:</b> <a href="#">EXS 522 Physical Activity and Health</a> 1. <b>Change title and descriptor to:</b> PE Physical Activity and Health Concepts for Physical Educators 2. <b>Change Prereq:</b> Admission to MS in Physical Education	<b>APPROVED</b>	SEPS, GR
9.8	<b>Course Revision:</b> <a href="#">EXS 592 Advanced Physiology of Sport &amp; Exercise</a> • <b>Change title to:</b> EXS 592 Advanced Physiology of Sport & Exercise I 3 • <b>Prereqs:</b> Admission in MS in Physical Education; For Full-Admission a student should have a course in exercise physiology* <b>Change Descr. to:</b> Using exercise physiology as a basis, examination of acute and chronic adaptations of the body to high physiological demands of physical activity and sport. Topics covered include bioenergetics, physiology of the skeletal system, cardiorespiratory system, and renal system. <del>Undergraduate course in exercise physiology is required for full admission to MS Physical Education program.</del>	<b>APPROVED AS AMENDED</b>	SEPS, GR
9.9	<b>Program Revision:</b> <a href="#">Master of Science in Physical Education</a> • Specialization in Physical Education • Specialization in Exercise Science Program Rationale: The graduates of the MS in Physical Education with a specialization in Exercise Science <b>are expected to their knowledge, their competency in physical education,</b> and applied skills needed <del>for the professions of certified (State of Connecticut licenses) athletic trainers, certified strength and conditional specialists and certified health fitness specialists.</del> An undergraduate program in exercise science or related field is preferred for admission to the master's degree program. This undergraduate program should be the equivalent of the undergraduate program in exercise science at CCSU.	<b>APPROVED</b>	SEPS, GR

H. Course Revisions from the Educational Leadership & Educational Technology Department will be considered at the April 18<sup>th</sup> meeting.

**REMINDER: LAST MEETING,** Thursday, April 18, 2013, Student Center 13 SC Clock 134