

# Armstrong

## MEMORANDUM

**To:** University Curriculum Committee  
**From:** Phyllis Panhorst  
Catalog Editor and Committee Secretary  
**Date:** September 28, 2011  
**Re:** Agenda – October 5, 2011

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The University Curriculum Committee will meet at 3:00 p.m. on Wednesday, October 5 in University Hall 282.

## A G E N D A

### CALL TO ORDER

Rick McGrath

### APPROVAL OF MINUTES – August 17, 2011

### ITEMS

#### I. College of Education

##### 1. Delete the following courses:

<del>LMUG 3000 INTRODUCTION TO MEDIA PROFESSION</del>	<del>2-2-2</del>
<del>LMUG 3100 REFERENCE SOURCES</del>	<del>3-2-3</del>
<del>LMUG 3200 CATALOGUING AND CLASSIFICATION</del>	<del>3-2-3</del>
<del>LMUG 4100 MEDIA SELECTION</del>	<del>3-1-3</del>
<del>LMUG 4200 ADMINISTRATION OF INFORMATION CENTERS</del>	<del>3-2-3</del>
<del>LMUG 4250 MEDIA INTERNSHIP</del>	<del>1-6-4</del>

**Rationale:** these courses are superseded by LSLI and are now redundant.

**Effective Term: Fall 2012**

A. Adolescent and Adult Education (no items)

## B. Childhood and Exceptional Student Education

*Please see Attachment 1 for background information on Program for the Degree Bachelor of Special Education.*

### 1. Modify the following course:

SPED 3001 ~~Assistive and Adaptive~~ Technology for the Special Educator ~~2-0-2~~ **3-0-3**

Prerequisite: Admission to ~~C~~ candidacy in the Department of Special and Adult Education College of Education

Description: ~~The use of adaptive technology,~~ **Course covers methods for linking using technology and to support and extend instruction, the appropriate uses of assistive and adaptive technology,** techniques for selecting and utilizing computer based instructional programs, and methods for developing multimedia-based, interactive instructional materials.

Rationale: The program of study requires a technology course specific to the needs of special educators that has adequate hours to cover all required content. The title more accurately reflects the changes in the course's purpose and content.

**Effective Term: Fall 2012**

### 2. Modify the following course:

CEUG 2100 Introduction to Students with Disabilities 3-0-3

Prerequisite: None

Description: ~~Survey of special education policies and identification and education of students who have special education needs.~~ **Provides an introduction to federal and State of Georgia legislation mandates, and policies that support the identification and education of children, adolescents, and young adults who have learning needs requiring special education services and programs. Introduces the array of services available to individuals with disabilities as well as identification practices, including response to intervention (RtI).** Meets educator certification requirements for under H. B. 671

Rationale: Upgrades course to provide a stronger focus on the legal and procedural aspects of services provided to diverse individuals who receive special education services.

**Effective Term: Fall 2012**

### 3. Modify the following course:

SPED 3006 Assessment, **Eligibility, and IEP Development** 3-0-3

Prerequisites: CEUG 2100 and Admission to Candidacy in the Department of Special and Adult Education **and admission to candidacy in the College of Education**

Description: Instruction in formal and informal assessment techniques and instruments appropriate for use in assessing students with disabilities. ~~Directed field~~

~~experience.~~ **Demonstrates the use of assessment data to determine eligibility for services and to develop and evaluate individual education plans (IEP).**

Rationale: Course combines content from SPED 3007 Eligibility and IEP Development with the content of SPED 3006 Assessment to provide teacher candidates with a clearer understanding of the important legal and procedural links between assessment, eligibility, program planning and summative evaluation.

**Effective Term: Fall 2012**

**4. Modify the following course:**

SPED 4004 **Curriculum and Instructional Strategies in the Content Areas** 3-0-3

~~Prerequisites: Admission to candidacy in the Department of Special and Adult Education~~ **College of Education, and SPED 3001, and SPED 3006**

Description: Research based and technology enhanced strategies for teaching study skills and methods for adapting the curriculum to meet the ~~special~~ needs of **diverse students** with disabilities. **Explores instructional standards that support the curriculum. Ensures that students meet curriculum standards at the students' highest achievement levels through careful planning and instruction.**

Rationale: Updates course prerequisites. Expands the scope of the course to ensure knowledge of State of Georgia mandated curriculum standards and achievement expectations for students with disabilities.

**Effective Term: Fall 2012**

**5. Modify the following course:**

SPED 4008 ~~Collaboration Procedures Fostering Inclusion and Transition Planning~~ **and Collaboration to Facilitate Inclusion and Transition** 3-V-3

~~Prerequisites: Admission to Candidacy in the Department of Special and Adult Education and SPED 4005 and SPED 4006.~~ **Admission to candidacy in the College of Education and SPED 4005.**

Description: **Offers** strategies for working collaboratively with ~~paraprofessionals,~~ parents/guardians, a variety of support professionals and ~~parents-related~~ **personnel**, and agency staff to plan and provide appropriate special education services to individuals in various instructional ~~programs and~~ settings, including transitions to secondary education or employment. Emphasizes ~~team planning~~ **skills required for team building**. A ~~Directed~~ field experience is required.

Rationale: Updates course prerequisites. Description better reflects changes to the course's purpose and content.

**Effective Term: Fall 2012**

**6. Modify the following course:**

SPED 4005 Strategies for Developing Social Skills and Behavioral Controls ~~3-V-33-0-3~~

Prerequisites: ~~Admission to Candidacy in the Department of Special and Adult Education and SPED 2003, SPED 3001, SPED 3007, SPED 3010~~ **Admission to candidacy in the College of Education, SPED 3001, and SPED 3006**

Description: Instructional methods for teaching conflict management, social interaction skills, language pragmatics, and ~~social skills~~ **behaviors** conducive to learning. **Provides guidance on classroom management strategies that reduce the behaviors and attitudes that disrupt learning.** ~~Includes practicum.~~

Rationale: Updates course prerequisites. Description better reflects changes to the course's purpose and content. Incorporates essential content from SPED 4006 Planning and Managing the Learning Environment. No practicum is required.

**Effective Term: Fall 2012**

**7. Modify the following course:**

SPED 4002 Teaching Mathematics to Students with Disabilities

3-V-3

Prerequisites: ~~Admission to Candidacy in the Department of Special and Adult Education and SPED 2003~~ **Admission to candidacy in the College of Education, SPED 3001, and SPED 3006**

Rationale: Updates course prerequisites

**Effective Term: Fall 2012**

**8. Modify the following course:**

SPED 4003 Teaching Reading, Spelling, and Written Expression to Students with Disabilities

3-V-3

Prerequisites: ~~Admission to Candidacy in the Department of Special and Adult Education and SPED 2003~~ **Admission to candidacy in the College of Education, SPED 3001, and SPED 3006**

Rationale: Updates course prerequisites

**Effective Term: Fall 2012**

**9. Modify the following course:**

SPED 4740 Internship I: **Directed Field Based Research**

1-V-3

Prerequisite: ~~Admission to Candidacy in the Department of Special and Adult Education.~~ **Admission to candidacy in the College of Education, MATH 2222, and SPED 3006, SPED 4002, and SPED 4003**

Description: ~~Directed field experience with students with disabilities.~~ **A directed field-based research project forms the core of this field experience. Ensures candidates are placed in school settings appropriate for field-based research.**

Rationale: The project will help candidates learn to conduct field-based research under supervision in a school setting. Updates prerequisites.

**Effective Term: Fall 2012**

**10. Modify the following course:**

SPED 4750 Internship II: Student Teaching 0-V-12

Prerequisite: ~~Admission to Candidacy in the Department of Special and Adult Education~~ **Admission to candidacy in the College of Education and satisfactory completion of all required other coursework and a satisfactory grade on Chapters I and II of the assessment portfolio program requirements.**

Description: ~~Provides an extensive supervised field-based capstone teaching experience.~~ **Provides an extensive supervised field-based capstone teaching experience.** Serves as the capstone for the program of study. Must be completed satisfactorily before the candidate can be recommended for teacher certification.

Rationale: Updates the prerequisites. Clarifies the purpose of the internship.

**Effective Term: Fall 2012**

**11. Delete the following course:**

~~SPED 4007 Directed Field Based Research 1 V 3~~

Rationale: The content of this course has been moved into SPED 4740 Internship I where candidates will conduct directed field based research in a school setting.

**Effective Term: Fall 2012**

**12. Delete the following course:**

~~SPED 2003 Curriculum and Educational Practices for Students with Disabilities~~

Rationale: Course content determined to be redundant. Curriculum and practices are covered in depth in SPED 4002, 4003, and 4004.

**Effective Term: Fall 2012**

**13. Delete the following course:**

~~SPED 3007 Eligibility and IEP Development 3-0-3~~

Rationale: Content has been added to SPED 3006 Assessment to create the revised course SPED 3006 Assessment, Eligibility, and IEP Development

**Effective Term: Fall 2012**

**14. Delete the following course:**

~~SPED 4006 Planning and Managing the Learning Environment 3 V 3~~

Rationale: Content from this course has been added to SPED 4005 to expand and enrich the course's content.

**Effective Term: Fall 2012**

**15. Modify the Program of Study for the Bachelor of Science in Education in Special Education: Cross-categorical**

A. General Requirements (Core Areas A, B, C, D, and E.....42 hours

Area F .....18 hours

EDUC 2110	Investigating Critical and Contemporary Issues in Education	3
EDUC 2120	Exploring Socio-cultural Perspectives in Diversity in Education Contexts	3
EDUC 2130	Exploring Learning and Teaching	3
CEUG 2100	Introduction to Students with Disabilities	3
SPED 2001	The Field of Special Education: Past and Future	3
<del>CEUG 3010</del>	<del>Constructing Literacy Programs P-12</del>	<del>3</del>
CEUG 3012	Language Acquisition	3

B. Major Field Courses 36 hours

<del>EDUC 3100</del>	<del>Technology Applications for Teachers</del>	<del>2</del>
<del>SPED 2003</del>	<del>Curriculum and Education Practice for Students with Disabilities</del>	<del>3</del>
SPED 3001	<b>Assistive and Adaptive Technology for the Special Educator</b>	3
SPED 3006	<b>Assessment, Eligibility, and IEP Development</b>	3
<del>SPED 3009</del>	<del>Physical and Health Disabilities</del>	<del>3</del>
SPED 4002	Teaching Mathematics to Students with Disabilities	3
SPED 4003	Teaching Reading, Spelling and Written Expression to Students with Disabilities	3
SPED 4004	<b>Curriculum and Instructional Strategies in the Content Areas</b>	3
<del>EDUC 3400</del>	<del>Classroom Management</del>	<del>3</del>
<del>SPED 4006</del>	<del>Planning and Managing the Learning Environment</del>	<del>3</del>
<del>SPED 4002</del>	<del>Directed Field Based Research</del>	<del>3</del>
<del>EDUC 3200</del>	<del>Curriculum, Instruction, and Assessment</del>	<del>3</del>
SPED 4005	Strategies for Developing Social Skills and Behavioral Controls	3
SPED 4008	<b>Collaboration Procedures Fostering Inclusion and Transition Planning and Collaboration to Facilitate Inclusion and Transitions</b>	3
SPED 4740	Internship I: <b>Directed Field Based Research</b>	3
SPED 4750	Internship II: <b>Student Teaching</b>	12

C. **Related Content for Highly Qualified:** Select one of the following areas:

English, History, Mathematics, or Science 21

**D. Program Related Courses**

Math 2222 Elementary Statistics

3

**Total Semester Hours.....123**

E. Regents' Test, **pass** GACE Basic Skills Assessment, **clear criminal background check**, ~~attempt GACE content area examinations~~, admission to candidacy ~~within the Department of Special and Adult Education~~, **evidence of professional tort liability insurance valid for no less than three (3) years from date of admission to candidacy**, **pass appropriate GACE content Exam(s)**, ~~benchmark portfolios in the unit assessment system~~, admission to **successful completion of Internship II (Student Teaching)**, ~~criminal background check~~.

**Effective Term: Fall 2012**

Rationale: The Program of Study for the Bachelor of Science in Education in Special Education: Cross-categorical has been revised to reflect the changes in educator preparation rules by the Georgia Professional Standards Commission, the state accrediting agency for College of Education teacher certification programs (See [www.gapsc.com](http://www.gapsc.com), Rules: 505-3-.30 and 505-2-.130). These changes reflect the highly qualified intent of the federal legislation known as No Child Left Behind. Candidates of this program will be certified to teach as collaborative special educators in elementary schools. In middle schools and high schools, the candidate who earns this degree will be prepared to teach in a self-contained content area classroom as the teacher of record. Twenty-one hours of content plus a passing score on the related GACE certification examination(s) in the selected content field will allow program graduates to add the field to their special education certificates. The twenty-one hours of selected content will be aligned with the Core Curriculum Georgia Performance Standards that support the curriculum of Georgia public schools. These changes offer candidates a stronger program of study as well a teaching certificate that assures marketability in this high needs area, especially at the middle and secondary levels.

**16. Delete the following courses:**

~~ECUG 4811 Internship I~~ ~~0 V 6~~

~~ECUG 4812 Internship II~~ ~~0 V 6~~

Rationale: These courses are no longer taught.

**Effective Term: Fall 2012****17. Change the following course description:**

EDUC 2130 Exploring Teaching and Learning

3-V-3

Prerequisites: None

Description: An exploration of key aspects of learning and teaching, with direct applications to the enhancement of learning in a variety of educational setting and contexts. ~~Ten hours of~~ A directed field experience is required.

Rationale: A field experience is required for this course.

**Effective term: Fall 2012**

**18. Create the following course (see Attachment 2):**

**EDUC 5455U/G Study Abroad in Teacher Education**

**3-V-3**

**Undergraduate Prerequisite: Admission to candidacy in the College of Education and permission of the instructor**

**Graduate Prerequisite: Admission to candidacy in the College of Education and permission of the instructor**

**Description: This course will prepare teacher candidates for travel and study abroad by engaging them on the study of the culture, cultural transmission to the young, the education system, and the role of the teacher in the designated country in which the study abroad field experience will occur. Candidates will travel to the country to engage in either supervised research or teaching activities to learn more about the instructional theories, philosophies, and practices that support the educational processes for children and adolescents who are comparable to K-12 students in the United States. A field experience is required.**

Rationale: This course is designed to allow candidates in teacher education programs of study to view education and the role of the teacher through the lens of another culture. It will expand candidates' cultural awareness and perspectives. Graduate level candidates will be assigned course activities appropriate for graduate study.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Childhood and Exceptional Student Education**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: None**

**II. College of Health Professions**

A. Communication Sciences and Disorders (no items)

**B. Health Sciences**

**1. Delete the following course:**

**~~SMED 5005U/G Musculoskeletal Basis of Exercise (3-0-3)~~**

Rationale: To come into compliance with SACS we are deleting and renumbering these courses.



**Effective Term: Summer 2012**

**2. Delete the following course:**

**~~SMED 5060U/G Physiological Foundations of Sport and Physical Activity (3-0-3)~~**

Rationale: To come into compliance with SACS we are deleting and renumbering these courses.

**Effective Term: Summer 2012**

**3. Create the following course:**

**HSCF 3005 Applied Musculoskeletal Anatomy and Kinesiology 3-0-3**

**Prerequisite: C or better in BIOL 2081**

**Description: Anatomical and kinesiological principles of the musculoskeletal system as related to human movement.**

Rationale: This course is replacing SMED 5005U so that it may be used as a prerequisite to 3000 and 4000 level courses

**Effective Term: Summer 2012**

**CURCAT**

**Major Department:** Health Sciences

**Can course be repeated for additional credit?** No

**Maximum Number of Credit Hours:** 3

**Grading Mode:** Normal

**Instruction Type:** Lecture

**Course Equivalent:** SMED 5005U

**4. Create the following course:**

**HSCF 3200 Exercise Physiology 3-0-3**

**Prerequisite: BIOL 2082 or course equivalents and HSCF 3005**

**Description: Acute and chronic physiological and biochemical responses of the human body to exercise.**

Rationale: This course is replacing SMED 5060U so that it may be used as a prerequisite to 3000 and 4000 level courses.

**Effective Term: Summer 2012**

**CURCAT**

**Major Department:** Health Sciences

**Can course be repeated for additional credit?** No

**Maximum Number of Credit Hours:** 3

**Grading Mode:** Normal

**Instruction Type:** Lecture

**Course Equivalent: SMED 5060U/ SMED 6060****5. Modify the following course prerequisites:**

SMED 5065U Movement and Posture Assessment and Exercise

**Undergraduate Prerequisite: ~~SMED 5015; HP/FM majors only~~ HSCF 3005;****HP/FM majors only or permission of instructor**

Graduate Prerequisite: unchanged

Rationale: Course content has shifted to only requiring HSCF 3005**Effective Term: Summer 2012****6. Modify the following course prerequisites:**

SMED 5015U Assessment and Evaluation of Musculoskeletal Injuries

**Undergraduate Prerequisite: ~~SMED 5005U~~ HSCF 3005 or permission of instructor****Graduate Prerequisite: unchanged (none)**Rationale: HSCF 3005 is replacing SMED 5005U.**Effective Term: Summer 2012****7. Modify the following course prerequisites:**

HSCF 4010 Evaluation and Prescription in Exercise &amp; Sport

**Prerequisite: HSCF 3005 and HSCF 3200 or permission of instructor**Rationale: Now that we have two pure undergraduate courses, the prerequisites can be listed.**Effective Term: Summer 2012****8. Modify the following course prerequisites:**

HSCF 4040 Personal Fitness Training

**Prerequisite: ~~HP/FM majors only and permission of instructor~~ HSCF 3005 and****HSCF 3200 or permission of instructor**Rationale: Now that we have two pure undergraduate courses, the prerequisites can be listed**Effective Term: Summer 2012****9. Modify the following BHS Track of Study****Track Four:-Human Performance & Fitness Management**

BIOL 2081 – Human Anatomy and Physiology I 4

BIOL 2082 - Human Anatomy and Physiology II 4

**HSCF 3005 Applied Musculoskeletal Anatomy and Kinesiology 3****HSCF 3200 Exercise Physiology 3**

HSCA 3600 - Financial Management for Health-Related Organizations	3
HSCF 3710 – Worksite Wellness and Safety	3
HSCF 3500 - Applied Kinesiology and Biomechanics	3
HSCF 4010 – Evaluation and Prescription in Exercise and Sport	4
HSCF 4020 – Health and Fitness Entrepreneurship	3
HSCF 4030 - Health and Fitness Management	3
HSCF 4040 – Personal Fitness Training	3
<del>SMED 5005U – Musculoskeletal Basis of Exercise</del>	<del>3</del>
<del>SMED 5060U – Physiological Foundations of Sport</del>	<del>3</del>
SMED 5555U – Physical Activity in Disease Prevention / Treatment	3

Select one of the following Courses Sequences:

SMED 5090U – Nutritional Issues in Sports Medicine	3
SMED 5600U - Healthy Weight Mgmt & Body Comp	3

**OR**

SMED 5015U – Assessment and Evaluation of Musculoskeletal Injuries	3
SMED 5065U – Movement and Posture Assessment and Exercise	3

–Electives ( 6 hours)

**Effective Term: Summer 2012**

- C. Medical Laboratory Science (no items)
- D. Nursing (no items)

**E. Physical Therapy**

**1. Delete the following course**

~~**RHAB 5100U/G Neuromuscular Basis of Exercise (3-0-3)**~~

Rationale: Renumbering for SACS compliance.

**Effective Term: Fall 2012**

**2. Create the following course**

**RHAB 4100 Neuroscience for the Rehabilitation Professions 3-0-3**

**Prerequisites: BIOL 2081**

**Description: Basic neuroanatomy, neurophysiology and neuropharmacology in the context of rehabilitation.**

Rationale: More general neuroscience content to better meet the requirements of graduate programs in physical therapy and occupational therapy than the presently

structured course. Change of name of the course so that graduate programs will better understand the content of this course and that it meets their requirements.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department:** Physical Therapy

**Can course be repeated for additional credit?** no

**Maximum number of credit hours:** 3

**Grading mode:** normal

**Instruction Type:** lecture

**Course Equivalent:** RHAB 5100U

### 3. Modify the Program of Study for the Bachelor of Science in Rehabilitation Science

B. Major Field Courses 41-44 hours

ITEC 1050 - Introduction to Computer Concepts and Applications

PSYC 1101 - Introduction to Psychology (if not taken in Core Area E)

PHYS 1111K Introductory Physics I

PHYS 1112K Introductory Physics I

COMM 2280 Speech Communication

RESP 2110 Medical Terminology

PSYC 3280 Abnormal Psychology

RHAB 4000 Application of Research to the Rehabilitation Professions

RHAB 4111 Pathophysiology for the Rehabilitation Professions 1

RHAB 4112 Pathophysiology for the Rehabilitation Professions 2

~~RHAB 5100U Neuromuscular Basis of Exercise~~

**RHAB 4100 Neuroscience for the Rehabilitation Professions**

~~SMED 5005U Musculoskeletal Basis of Exercise~~

**HSCF 3005 Applied Musculoskeletal Anatomy and Kinesiology**

~~SMED 5060U Physiological Foundations of Sport~~

**HSCF 3200 Exercise Physiology**

PUBH 5580U Health & Human Development

**Effective Term: Fall 2012**

### F. Radiologic Sciences

#### 1. Create the following course:

**RADS 2000 Terminology of Imaging and Radiologic Sciences**

**1-0-1**

**Prerequisite:** ENGL 1101 and MATH 1111

**Description:** Exploration of medical terms related to Radiologic Sciences. Also includes terminology and track specific content related to radiologic sciences.

Rationale: This elective course introduces students to various specializations within the field of Radiologic Sciences. Because students must choose between five tracks within Imaging and Radiologic Sciences, a course that introduces terminology and track specific information may help them choose a specific area of study.

**Effective Term: Fall 2012**

**CURCAT**

**Major Department: Radiologic Sciences**

**Can course be repeated for additional credit? No**

**Maximum number of credit hours: 1**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course equivalent: None**

**2. Create the following course:**

**RADS 4800 Research Methodologies in Radiologic Sciences**

**2-0-2**

**Prerequisite: MATH 2200 and HLPR 2000. Open only to majors**

**Description: Application of quantitative and qualitative approaches to research issues specific to the Radiologic Sciences. Topics covered include development of research questions, study design, methodology, data collection and analysis.**

Rationale: The faculty determined that students needed more exposure to research methodologies, design, and evaluation. This course addition is part of the curricular restructuring in Radiologic Sciences. This course partially replaces RADS 4430 Professional Practice Seminar that is being deleted from the Program of Study.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 2**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: RADS 4430**

**3. Create the following course:**

**RADS 3080 Professional Interactions**

**0-3-1**

**Prerequisite: RADS 3000**

**Description: A seminar focused on professional interactions in Radiologic Sciences.**

Rationale: This course includes a portion of the content currently in RADS 4430, which is being removed from the Program of Study.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 1**

**Grading Mode: Normal**

**Instruction Type: Seminar**

**Course Equivalent: RADS 4430**

**4. Create the following course:**

**RADS 3112 Introduction to Computed Tomography**

**1-0-1**

**Prerequisite: Admission to major**

**Description: An overview of Computed Tomography technology, computer reconstructions algorithms, and clinical application.**

Rationale: This course addition is part of the curricular restructuring in Radiologic Sciences and is driven by new accreditation requirements.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 1**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: None**

**5. Modify the following course prerequisites:**

**RADS 4112 ADVANCED IMAGING IN CT**

**3-0-3**

**Prerequisite: RADS 3090 and RADS 3112 or permission of instructor. ~~or department and~~**

Rationale: The content in the new course, RADS 3112 lays the foundation for this course.

**Effective Term: Summer 2013**

**6. Delete and replace the following course number, modify course title**

**RADS ~~4463S~~ 4415 Radiography Synthesis ~~Seminar~~**

**0-3-1**

**Prerequisite: RADS 3060, RADS 3073, RADS 3150, and RADS 4090**

**Prerequisite or Corequisite: RADS 4163**

**Discussion of theoretical concepts of radiography as they relate to practice.**

Rationale: This course no longer is coupled as a seminar to RADS 4163 and needs its own number.

**Effective Term: Fall 2012**

**CURCAT****Course equivalent: RADS 4163S****7. Modify the following course hours :**

RADS 4164 Clinical Education IV

~~0-20-3~~ **0-24-5**

Rationale: Because of the re-sequencing of the curriculum, this course will have additional requirements.

**Effective Term: Summer 2013****8. Modify the following course:**

RADS 3071 Imaging and Radiation Procedures I

3-2-3

Prerequisite: Open to majors in radiologic sciences.

Description: Procedures involving the chest, abdomen, **bony thorax**, and visceral organs requiring the use of contrast media, including spatial relationships, ~~and~~ pathology, ~~—Emphasis on~~ equipment manipulation, and quality evaluation of radiographic examinations.

Rationale: This modification is needed due to programmatic changes in the radiography curriculum sequence.

**Effective Term: Fall 2012****9. Modify the following course:**

RADS 3072 Imaging and Radiation Procedures II

3-2-3

Prerequisite: RADS 3071

Description: Procedures involving extremities, shoulder girdle, **and pelvic girdle**, ~~vertebral column including chest and abdomen, visceral organs requiring the use of contrast media,~~ spatial relationships, pathology, equipment manipulation, **and** quality evaluation **of radiographic examinations and medical terminology.**

Rationale: This modification is needed due to programmatic changes in the radiography curriculum sequence.

**Effective Term: Fall 2012****10. Modify the following course description and hours:**

RADS 3073 Imaging and Radiation Procedures III

~~3-2-3~~ **2-2-2**

Prerequisite: RADS 3072

Description: Procedures involving vertebral column, ~~bony thorax, pelvic girdle, facial bones, and cranium, and heart, breast, and reproductive organs.~~ Includes the chest, abdomen, and visceral organs requiring the use of contrast media, including spatial relationships, ~~and~~ pathology, ~~—Emphasis on~~ equipment manipulation, and quality evaluation of radiographic examinations.

Rationale: This modification is needed due to programmatic changes in the radiography curriculum. Hours removed to become new course RADS 3074.

**Effective Term: Fall 2012**

**11. Create the following course:**

**RADS 3074 Imaging and Radiation Procedures IV** **1-1-1**

**Prerequisite: RADS 3073.**

**Description: Procedures involving reproductive organs and facial bones including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations.**

Rationale: This course is a redistribution of course credit hours from RADS 3073 as part of the re-sequencing of curriculum.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 1**

**Grading Mode: Normal**

**Instruction Type: Lecture/Lab**

**Course Equivalent: None**

**12. Modify the following course prerequisites:**

RADS 3190 Principles of Radiation Therapy **3-0-3**

Prerequisite: permission of instructor or department ~~and RADS 3000.~~

Rationale: Content covered in RADS 3000 is not foundational to the understanding of theory in RADS 3190.

**Effective Term Fall 2012**

**13. Modify the following course description:**

RADS 4201 Radiation Oncology I **3-0-3**

Prerequisite: permission of instructor or department

Prerequisite or corequisite RADS 3190

Description: An introduction to carcinogenesis and treatment of neoplasia. Emphasis is placed on neoplastic diseases occurring in the respiratory, ~~and~~ gastrointestinal, **reproductive/genitourinary systems and breast.**

Rationale: This modification is needed in order to reflect redistribution of course content.

**Effective Term Fall 2012**



**14. Modify the following course description:**

RADS 4202 Radiation Oncology I 3-0-3

Prerequisite: RADS 4201

Description: A study of neoplastic disease and interventions related to the reproductive, head and neck, breast, lymphoreticular, skeletal, integumentary, endocrine and central nervous systems.

Rationale: This modification is needed in order to reflect redistribution of course content.

**Effective Term Fall 2012**

**15. Modify the following course hours:**

RADS 4240 Radiation Therapy Physics 3-4 0-3

Prerequisite: permission of instructor or department and RADS 3090

Rationale: Laboratory experience is no longer a part of this course.

**Effective Term Fall 2012**

**16. Modify the following course hours:**

RADS 4305 Radiation Therapy Clinical Education V 0-20-3 0-18-2

Prerequisite: Permission of instructor or department and RADS 4304.

Rationale: Clinical hours will be reduced to accommodate additional theory offered in the new Introduction to CT didactic course.

**Effective Term Fall 2013**

**17. Delete and replace the following course number, modify title and prerequisites:**

RADS 4304S **4307** Radiation Therapy Synthesis ~~Seminar~~ 0-3-1

**Prerequisite: RADS 4280 AND RADS 4260**

**Corequisite or Prequisite: RADS 4304** ~~or permission of instructor~~

Description: Discussion of theoretical concepts of radiation therapy as they relate to practice.

Rationale: This course is no longer coupled to RADS 4304 as a seminar and needs its own number.

**Effective Term Fall 2012**

**CURCAT**

**Course Equivalent: RADS 4304S**

**18. Delete and replace the following course number, modify prerequisite:**RADS 4305S **4308** Radiation Therapy Seminar

0-3-1

**Prerequisite: RADS 4307**

Prerequisite or Corequisite RADS 4305

Description: Discussion of theoretical concepts of radiation therapy.

Rationale: This course is no longer coupled to RADS 4305 as a seminar and needs its own number.

**Effective Term Fall 2012****CURCAT****Course Equivalent: RADS 4305S****19. Modify the following course prerequisite:**

RADS 3301 Radiation Therapy Clinical Education I

0-20-2

Prerequisite: Permission of instructor or department and **RADS 3195** ~~formal admission into the radiation therapy track.~~

Rationale: The laboratory component of **RADS 3195** is designed to prepare the student to be successful in RADS 3301.

**Effective Term: Fall 2012****20. Create the following course:****RADS 3195 Radiation Therapy Procedures****3-2-3****Prerequisite: RADS 3000**

**Description: Introduction to principles of patient simulation and treatment with emphasis upon radiation therapy equipment operation and utilization.**

Rationale: This course will address content requirements established in the practice standards for a radiation therapist. Additionally, completion of this course will prepare students for radiation therapy clinical education. This course will replace RADS 3071 in the radiation therapy track program of study.

**Effective Term: Summer 2012****CURCAT****Major Department: Radiologic Sciences****Can course be repeated for additional credit? No****Maximum number of Credit Hours: 3****Grading Mode: Normal****Instruction Type: Lecture/Lab****Course Equivalent: RADS 3071**

**21. Modify the following course hours:**

RADS 3510 Nuclear Medicine Instrumentation 3-2-4 1-0-1

Prerequisite: RADS 3501

Description: Principles of radiation detection equipment and instrumentation employed in nuclear medicine procedures. Topics include detection systems, QC/QA, collimation, tomography, and computer applications.

Rationale: This course is in the catalog but has not been taught recently as content of this course was included in RADS 4540, Nuclear Medicine Physics and Instrumentation. The content is being separated as a single course. The new course hours reflect this change.

**Effective Term: Fall 2012**

**22. Modify the following course title, description, hours, and prerequisites:**

RADS 4540 Nuclear Medicine Physics ~~and Instrumentation~~ 3-2-4 3-1-3

**Prerequisite:** ~~RADS 3501~~ **RADS 3090, RADS 3503 and RADS 3510**

Description: **Topics include** decay modes, half-life, radiation interactions, radiation measurement ~~and the principles of radiation detection equipment and instrumentation as applied to Nuclear Medicine Imaging.~~ Topics include detection systems, QC/QA, collimation, tomography, and computer applications.

Rationale: This modification is needed due to programmatic accreditation changes in the nuclear medicine curriculum.

**Effective Term: Fall 2012**

**23. Modify the following course hours and prerequisites:**

RADS 3532 Nuclear Medicine Clinical Education II ~~0-20-2~~ 0-24-3

Prerequisite: RADS 3531, **RADS 3503, RADS 3520**

Rationale: Additional competencies are required at this stage of clinical education.

**Effective Term: Fall 2012**

**24. Modify the following course hours and prerequisites:**

RADS 4533 Nuclear Medicine Clinical Education III ~~0-20-2~~ 0-24-3

Prerequisite: RADS 3532.

Rationale: Restructuring of curriculum requires more clinical competencies.

**Effective Term: Fall 2012**

## 25. Create the following course:

**RADS 3600 – Introduction to Sonography** **3-0-3**

**Prerequisite: Formal admission to the Sonography Track or permission of instructor or department.**

**Description: Introduction to specialties, theoretical concepts, standards and practices related to diagnostic medical sonography.**

Rationale: The creation of this course content will address content standard for diagnostic medical imaging related to sonography. It will provide an overview of both the profession and the program. Additionally, completion of this course will prepare students to be more aware of professional and programmatic expectations. This course will replace RADS 3071 in the sonography track program of study.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: RADS 3071**

## 26. Create the following course:

**RADS 3604 Sonographic Theory IV** **3-1-3**

**Prerequisite: RADS 3603, formal admission to the Sonography Track or permission of instructor or department.**

**Description: Continuation of Sonographic Theory III.**

Rationale: The creation of this course content permits the sonography track to continue to discuss theoretical concepts of gynecological, obstetrical, invasive and advanced scanning procedures and techniques.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture/Lab**

**Course Equivalent: NA**

## 27. Modify the following course description and hours:

**RADS 3651 Sonographic Physics I** **3-0-1-3**

**Prerequisite: PHSC 1211/1211L or PHYS 111K or permission of instructor or department.**

Description: An introduction to ultrasound **instrumentation**, propagation principles and interactions.

Rationale: The course description and credit hours have been modified to include the discussion of ultrasound instrumentation. Thus, requiring lab hours to demonstrate use of ultrasound equipment.

**Effective Term: Spring 2013**

**28. Modify the following course description and hours:**

RADS 3652 Sonographic Physics II

~~3-0-1-3~~

Prerequisite: RADS 3651 **or permission of instructor or department.**

Description: Continuation of RADS 3651 to include **ultrasound instrumentation, propagation principles and interactions and Doppler Physics.**

Rationale: The course description and credit hours have been modified to include the continued discussion of ultrasound instrumentation. Thus, requiring lab hours to demonstrate use of ultrasound equipment.

**Effective Term: Summer 2013**

**29. Modify the following course hours:**

RADS 3761 Cardiovascular Clinical Education I

~~0-20-2~~ **0-24-3**

Prerequisite or corequisite: RADS 3772

Rationale: Curriculum is being resequenced and additional clinical competencies will be added to this course. To accommodate the newly required competencies, an additional clinic hour is needed.

**Effective Term: Fall 2012**

**30. Modify the following course hours:**

RADS 3762 Cardiovascular Clinical Education II

~~0-20-2~~ **0-24-3**

Prerequisite or corequisite: RADS 3761

Rationale: Curriculum is being resequenced and additional clinical competencies will be added to this course. To accommodate the newly required competencies, an additional clinic hour is needed.

**Effective Term: Fall 2012**

**31. Modify the following course hours:**

RADS 4763 Cardiovascular Clinical Education III

~~0-20-2~~ **0-24-3**

Prerequisite or corequisite: RADS 3750, RADS 3762

Rationale: Curriculum is being resequenced and additional clinical competencies will be added to this course. To accommodate the newly required competencies, an additional clinic hour is needed.

**Effective Term: Fall 2012**

**32. Modify the following course hours:**

RADS 4764 Cardiovascular Clinical Education IV 0-20-2 0-24-3  
Prerequisite or corequisite: ~~RADS 4751~~ **RADS 4763**

Rationale: New curriculum sequencing is being put in place. This necessitates the need for a change in the prerequisite. Additional clinical competencies will be added to this course. To accommodate the newly required competencies, an additional clinic hour is needed.

**Effective Term: Fall 2012**

**33. Modify the following course hours:**

RADS 4765 Cardiovascular Clinical Education V 0-20-2 0-24-3  
Prerequisite or corequisite: RADS 4764

Rationale: Curriculum is being resequenced and additional clinical competencies will be added to this course. To accommodate the newly required competencies, an additional clinic hour is needed.

**Effective Term: Fall 2012**

**34. Modify the following course title and prerequisites:**

RADS 3771 Introduction to Cardiovascular ~~Technology~~ **Science** 3-0-3  
Prerequisite: Formal admission to the cardiovascular/ interventional **science** track.

Rationale: Change in verbiage more appropriately matches accreditation and curriculum standards.

**Effective Term: Fall 2012**

**35. Create the following course:**

**RADS 3775 Advanced Patient Care and Monitoring** **4-1-4**  
**Prerequisites or corequisite: RADS 3772, RADS 3050, RADS 3090**  
**Description: Indications for diagnostic and therapeutic cardiovascular procedures and an analysis of treatment modalities. Caring for the cardiovascular procedural patient, pre, intra, and post procedure are emphasized.**

Rationale: Curriculum is being restructured to streamline and minimize overlap in content to meet accreditation standards. Required content from RADS 3750 and RADS 4750 will included in this course.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can course be repeated for additional credit? No**

**Maximum Number of Credit Hours: 4**

**Grading Mode: Normal**

**Instruction Type: Lecture/Lab**

**Course Equivalent: No course equivalent**

**36. Create the following course:**

**RADS 4790 Cardiovascular Fluoroscopy**

**2-0-2**

**Prerequisite or corequisite: RADS 3090**

**Description: Study of fluoroscopic equipment to include physics concepts and radiation safety practices.**

Rationale: Accreditation standards require a course specific to fluoroscopy for cardiovascular interventional science.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Radiologic Sciences**

**Can Course be repeated for additional credit? No**

**Maximum number of credit hours: 2**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: No course equivalent**

**37. Modify the following program:**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES**

**A. General Requirements (Core Areas A, B, C, D.2.B., and E) 42 hours**

Core Area F .....18 hours

BIOL 2081 - Human Anatomy and Physiology I

BIOL 2082 - Human Anatomy and Physiology II

MATH 1113 – Pre-Calculus

Approved **Guided-Electives**

**Must include HLPR 2000**

One of the following:

PHSC 1211/1211L - Physical Environment and Lab

PHYS 1111K - Introductory Physics I

Physical Education .....	3 hours
<b>B. Major Field Courses .....</b>	<b>26- 20 hours</b>
<del>HLPR 2000 – Research in Health Professions</del>	
RADS 3000 - Introduction to Radiologic Sciences	
<b>RADS 3080 – Professional Interactions</b>	
RADS 3050 - Patient Care and Interactions	
<del>RADS 3071 – Imaging and Radiation Procedures I</del>	
<del>RADS 3100 – Medical Communication Skills</del>	
RADS 3200 - Imaging Pathology	
RADS 3450 - Leadership in Health Care	
RADS 3451 - Leadership Practicum	
RADS 4410 - Cross Sectional Anatomy	
<del>RADS 4430 – Professional Practice Seminar</del>	
<b>RADS 4800 – Research Methodologies in Radiologic Sciences</b>	
<del>RADS 4450 -Radiology Management &amp; Leadership</del> <b>RADS 4450 – Radiologic Sciences Management</b>	
<b>a. Radiography Track .....</b>	<b>40 46 hours</b>
RADS 3060 - Principles of Image Formation and Evaluation	
RADS 3071 - Imaging and Radiation Procedures I	
RADS 3072 - Imaging and Radiation Procedures II	
RADS 3073 - Imaging and Radiation Procedures III	
<b>RADS 3074 - Imaging and Radiation Procedures IV</b>	
RADS 3090 - Introduction to Radiation Physics	
RADS 3150 - Radiobiology and Radiation Protection	
RADS 3161 - Radiography Clinical Education I	
RADS 3162 - Radiography Clinical Education II	
RADS 4050 - Quality Management in Radiography	
RADS 4090 - Radiographic Physics	
<b>RADS 3112 – Introduction to CT</b>	
RADS 4163 - Radiography Clinical Education III	
<del>RADS 4163S</del> <b>RADS 4415 - Radiography Synthesis Seminar</b>	
RADS 4164 - Radiography Clinical Education IV	
RADS 4420 - Senior Radiography Seminar	
One of the following pairs:	
RADS 4111 - Advanced Imaging in MRI <b>and</b> RADS 4171 - Magnetic Resonance Clinical Education	
<b>or</b> RADS 4112 - Advanced Imaging in CT <b>and</b> RADS 4172 - Computed Tomography Clinical Education	
<b>or</b> RADS 4113 - Advanced Imaging in Mammography <b>and</b> RADS 4173 - Mammography Clinical Education	
<hr/>	
<b>Total Semester Hours for Radiography Track</b>	<b>129 hours</b>
<b>b. Radiation Therapy Track* .....</b>	<b>40 46 hours</b>



RADS 3060 - Principles of Image Formation and Evaluation

**RADS 3195 - Radiation Therapy Procedures**

RADS 3090 - Introduction to Radiation Physics

RADS 3150 - Radiobiology and Radiation Protection

RADS 3190 - Principles of Radiation Therapy

RADS 3301 - Radiation Therapy Clinical Education I

RADS 3302 - Radiation Therapy Clinical Education II

**RADS 3112 - Introduction to CT**

**RADS 4112 - Advanced Imaging in CT**

RADS 4201 - Radiation Oncology I

RADS 4202 - Radiation Oncology II

RADS 4240 - Radiation Therapy Physics

RADS 4260 - Treatment Planning

RADS 4280 - Quality Management in Radiation Therapy

RADS 4303 - Radiation Therapy Clinical Education III

RADS 4304 - Radiation Therapy Clinical Education IV

RADS ~~4304~~ **4307** - Radiation Therapy Synthesis Seminar

RADS 4305 - Radiation Therapy Clinical Education V

RADS ~~4305~~ **4308** - Radiation Therapy Seminar

**Total Semester Hours for Radiation Therapy Track 129 hours**

**\* Radiation therapy students must take a pre-calculus course. This may be taken as a guided elective in area F.**

c. Nuclear Medicine Track\*\* .....40 ~~40~~ **46** hours

RADS 3090 - Introduction to Radiation Physics

RADS 3150 - Radiobiology and Radiation Protection

RADS 3501 - Principles of Nuclear Medicine I

RADS 3502 - Principles of Nuclear Medicine II

RADS 3503 - Principles of Nuclear Medicine III

RADS 3520 - Radio-Pharmacy and Radiochemistry

RADS 3531 - Nuclear Medicine Clinical Education I

RADS 3532 - Nuclear Medicine Clinical Education II

**RADS 3510 - Nuclear Medicine Instrumentation**

**RADS 3112 - Introduction to Computed Tomography**

**RADS 4112 - Advanced Imaging in CT**

RADS 4533 - Nuclear Medicine Clinical Education III

RADS 4534 - Nuclear Medicine Clinical Education IV

RADS 4535 - Nuclear Medicine Clinical Education V

RADS 4540 - Nuclear Medicine Physics ~~and Instrumentation~~

RADS 4561 - Nuclear Medicine Synthesis

RADS 4562 - Nuclear Medicine Seminar

RADS 4570 - Introduction to PET

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**Total Semester Hours for Nuclear Medicine Track      129 hours**

\*\*Nuclear Medicine students must complete a general chemistry course. This may be taken as part of the science requirements in Area D or as ~~the approved~~ **a guided** elective in Area F.

d. Sonography Track\*\*\* .....~~40~~ **46 hours**

COMM 2280 - Speech Communication

**RADS 3600 - Introduction to Sonography**

RADS 3601- Sonographic Theory I

RADS 3602 - Sonographic Theory II

RADS 3603 - Sonographic Theory III

**RADS 3604 - Sonographic Theory IV**

RADS 3631 - Sonographic Clinical Education I

RADS 3632 - Sonographic Clinical Education II

RADS 3651 - Sonographic Physics I

RADS 3652 - Sonographic Physics II

RADS 4633 - Sonography Clinical Education III

RADS 4634 - Sonography Clinical Education IV

RADS 4635 - Sonography Clinical Education V

RADS 4661 - Sonography Synthesis Seminar

RADS 4662 - Advanced Sonography Seminar

RADS 4671 - Intro to Vascular Sonography

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**Total Semester Hours for Sonography Track      129 hours**

\*\*\* Sonography students must complete a general biology course. This may be taken as part of the science requirement in area D or as ~~the approved~~ **a guided** elective in area F.

e. Cardiovascular/Interventional **Science** Track .....~~40~~ **46 hours**

RADS 3060- Principles of Image Formation and Evaluation

RADS 3071- Imaging and Radiation Procedures I

RADS 3090- Introduction to Radiation Physics

RADS 3150- Radiobiology and Radiation Protection

~~RADS 3750- Advanced Patient Care~~

RADS 3761- Cardiovascular Clinical Education I

RADS 3762- Cardiovascular Clinical Education II

RADS 3763- Cardiovascular Clinical Education III

**RADS 3775 - Advanced Patient Care and Monitoring**

RADS 3771- Introduction to Cardiovascular Technology

RADS 3772- Cardiovascular Imaging and Equipment

~~RADS 4090- Radiographic Physics~~

**RADS 4790 - Cardiovascular Fluoroscopy**

~~RADS 4750- Patient Assessment & Monitoring~~

RADS 4751- Emergency Care

RADS 4752- Physiologic Monitoring and Recording

RADS 4764- Cardiovascular Clinical Education IV

RADS 4765- Cardiovascular Clinical Education V

RADS 4771- Cardiovascular Synthesis

RADS 4772- Cardiovascular Seminar

Total Semester Hours for Cardiovascular/Interventional **Science** Track

**129 hours**

**Note:** Change to RADS 4450 -~~Radiology Management & Leadership~~ **Radiologic Sciences Management** are necessary to update the program of study to match a previously approved change of course title for RADS 4450 as it appears in the current catalog.

**Effective date: Fall 2012**

**38. Modify the following program:**

**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES - SPECIAL OPTIONS**

**A. General Requirements (Core Areas A, B, C, D.2.B., and E) 42 hours**

Core Area F .....18 hours

BIOL 2081 - Human Anatomy and Physiology I

BIOL 2082 - Human Anatomy and Physiology II

MATH 1113—Pre-Calculus

Approved **Guided**-Electives

**Must include HLPR 2000**

One of the following:

PHSC 1211/1211L - Physical Environment and Lab

PHYS 1111K - Introductory Physics I

Physical Education .....3 hours

**B. Major Field Courses .....66 hours**

a. Radiation Therapy

~~HLPR 2000—Research in Health Professions~~

**RADS 3000 – Introduction to Radiologic Sciences**

**RADS 3080 – Professional Interactions**

**RADS 3050 – Patient Care and Interactions**

**RADS 3060 – Principles of Image Formation and Evaluation**

**RADS 3090 – Introduction to Radiation Physics**

**RADS 3112 – Introduction to CT**

**RADS 3150 – Radiobiology and Radiation Protection**

RADS 3190 – Principles of Radiation Therapy

**RADS 3195 – Radiation Therapy Procedures**

**RADS 3200 – Imaging Pathology**

RADS 3301 – Clinical Education I

RADS 3302 – Clinical Education II

**RADS 3450 – Leadership in Healthcare**

**RADS 3451 – Leadership Practicum**

**RADS 4112 – Advanced Imaging in CT**

RADS 4201 – Radiation Oncology I

RADS 4202 – Radiation Oncology II  
 RADS 4240 – Radiation Therapy Physics  
 RADS 4260 – Treatment Planning  
 RADS 4280 – Quality Management in Radiation Therapy  
 RADS 4303 – Clinical Education III  
 RADS 4304 – Clinical Education IV  
 RADS 4304S ~~4307~~- Radiation Therapy Synthesis Seminar  
 RADS 4305 – Clinical Education V  
 RADS 4305S ~~4308~~- Radiation Therapy Seminar  
**RADS 4410 - Cross-Sectional Anatomy**  
~~RADS 4430 – Professional Practice Seminar~~  
 One of the following:  
     ~~RADS 3450 – Leadership in Healthcare and RADS 3451 – Leadership Practicum~~  
     **or**  
     RADS 4450 – ~~Radiography~~ **Radiologic Sciences Management and Leadership**  
**RADS 4800 – Research Methodologies in Radiologic Sciences**

b. Nuclear Medicine

~~HLPR 2000 – Research in Health Professions~~  
**RADS 3000 – Introduction to Radiologic Sciences**  
**RADS 3050 – Patient Care and Interactions**  
**RADS 3080 – Professional Interactions**  
**RADS 3090 – Introduction to Radiation Physics**  
~~RADS 3100 – Medical Communication Skills~~  
**RADS 3150 – Radiobiology and Radiation Protection**  
**RADS 3112 – Introduction to CT**  
**RADS 3200 – Imaging Pathology**  
**RADS 3450 – Leadership in Healthcare**  
**RADS 3451 – Leadership Practicum**  
 RADS 3501 – Principles of Nuclear Medicine I  
 RADS 3502 – Principles of Nuclear Medicine II  
 RADS 3503 – Principles of Nuclear Medicine III  
**RADS 3510 - Nuclear Medicine Instrumentation**  
 RADS 3520 – Radiopharmacy and Radiochemistry  
 RADS 3531 – Clinical Education I  
 RADS 3532 – Clinical Education II  
**RADS 4112 – Advanced Imaging in CT**  
 RADS 4410 – Cross-Sectional Anatomy  
~~RADS 4430 – Professional Practice Seminar~~  
 RADS 4533 – Clinical Education III  
 RADS 4534 – Clinical Education IV  
 RADS 4535 – Clinical Education V  
 RADS 4540 - Nuclear Medicine Physics ~~and Instrumentation~~  
 RADS 4561 - Nuclear Medicine Synthesis  
 RADS 4562 – Nuclear Medicine Seminar  
 RADS 4570 - Introduction to PET

One of the following:

~~RADS 3450 – Leadership in Healthcare and RADS 3451 – Leadership Practicum~~

~~or~~

RADS 4450 – Radiology Management and Leadership

**RADS 4800 – Research Methodologies in Radiologic Sciences**

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**Rationale:** The changes in Area F reflect the new Area F for radiologic Sciences by the Board of Regents of the University System of Georgia. The programs of study changes are needed due to curriculum changes in the degree.

**Note:** Change to RADS 4450 ~~Radiology Management & Leadership~~ **Radiologic Sciences Management** are necessary to update the program of study to match a previously approved change of course title for RADS 4450 as it appears in the current catalog.

**Effective date: Fall 2012**

G. Respiratory Therapy (no items)

### III. College of Liberal Arts

A. Art, Music, & Theatre (no items)

#### B. Criminal Justice, Social, & Political Science

##### 1. Create the following course:

**LWSO 3990 – Special Topics in Law and Society**

**3-0-3**

**Prerequisite: Varies with topic**

**Description: Topics and issues not available in other courses. May be repeated as topics vary**

**Rationale:** This permits us to add to the number of LWSO-specific courses as we have faculty available to create new courses. It also allows other relevant 3990 courses in POLS and CJRU to be cross-listed with LWSO, thus increasing the number of courses for the LWSO major.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Criminal Justice, Social and Political Science**

**Can course be repeated for additional credit? Yes**

**Maximum Number of Credit Hours: Six**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent : N/A**

##### 2. Create the Following Course:

**LWSO/POLS/CRJU 4172 Terrorism and National Security Law**

**3-0-3**

**Prerequisites: CRJU/POLS 2200 or POLS 1100; at least one of the following courses: POLS 5500U or POLS 3150 or POLS 3160**

**Description: Exploration of the role of law in American national security policy, with a focus on statutes and United States Supreme Court decisions related to terrorism and enemy detainee cases.**

Rationale: This course will replace POLS 5291U Constitutional Law of American Foreign Policy. This course will be more focused on national security and terrorism law than its predecessor, which is both more relevant and interesting to students today given present realities.

**Effective term: Fall 2012**

**CURCAT:**

**Major Department: Criminal Justice, Social and Political Science**

**Can course be repeated for additional credit? No**

**Maximum Number of Credit Hours: Three**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Cross-listed with: LWSO 4172, CRJU 4172, POLS 4172**

**Course Equivalent: POLS 5291U**

**3. Delete the following course:**

~~**POLS 5291 U/G Constitution Law of American Foreign Policy**~~ ~~**3-0-3**~~

Rationale: The relevant content has been incorporated into the requested new course on national security and terrorism law (POLS 4172).

**Effective term: Fall 2012**

**4. Modify the Minor in Legal Studies:**

Legal Studies..... 18 hours

POLS 3180, CRJU/POLS 5500U and any four of the following:

~~**HSSC 3110, LWSO/POLS 4190, POLS 3150, POLS 3160, POLS 3170, POLS 3190, POLS 4150, POLS 4170, POLS 4171, POLS 4172, POLS 4180**~~

CRJU/POLS 5520U, ~~POLS 5230U~~, CRJU 4500, or CRJU 4510

Rationale: Reflects changes in course numbers, deletions of some courses, and/or recent creation of new courses.

**Effective term: Fall 2012**

**5. Modify the following Program of Study:**

BACHELOR OF ARTS IN LAW AND SOCIETY

B. Major Field Courses ..... 36 hours

In addition to the required courses, select six courses in one of three specialized tracks:

Required Courses

CRJU 3100 - Research Methods or POLS 4950 - Political Research Methods

CRJU/POLS 5500U - Law and Legal Process

~~POLS 4171 - Constitutional Law Civil Liberties~~

**POLS 3150 - American Supreme Court**

LWSO 2000 - Introduction to Law and Society

ENGL 4700 - Advanced Composition\*

ENGL 5730 - Rhetoric\*

\* **Substitutions possible in consultation with program coordinator.**

Track One: Government and Judicial Studies

CRJU 3110 - Critical Theory of Criminal Justice

CRJU 3140 - Political Crimes

**CRJU 3160 - White Collar and Org. Crime**

CRJU 3170 - Criminal Justice Administration

CRJU 4500 - Advanced Criminal Evidence

CRJU 4510 - Advanced Criminal Law

CRJU 4900 - Directed Research in Criminal Justice

CRJU 5130U - Political Terrorism

~~ECON 3100 - Multinational Economic Enterprise~~

~~ECON 3450 - Environmental Economics~~

~~ECON 4150 - Money and Capital Markets~~

~~ECON 4410 - Regional Economics~~

~~ECON 4460 - Economic Analysis of the Law~~

~~ECON 4500 - Public Finance~~

~~ECON 4550 - Public Choice~~

~~ECON 5300U - Money and Banking~~

~~ECON 5400U - Economics of Labor~~

~~ENGL 3720 - Business and Technical Communications~~

~~ENGL 5740U - Technical Editing~~

~~ENGL 5800U - Advanced Grammar~~

HSCC 3110 - Legal Issues in the Health Care Environment

HIST 3740 - Women in American History

~~HIST 5540U - Topics in U.S. Foreign Relations~~

HIST 5565U - Topics in the History of American Reform

LWSO/POL 4190 - Environmental Law and Regulations

~~POLS 3150 - American Supreme Court~~

POLS 3160 - American Judicial Politics and Strategies

POLS 3170 - Constitutional Law and the Federal System

POLS 3190 - American Military Law

POLS 3980 - African-American and the American Political System

**POLS 4171 - Constitutional Law and Civil Liberties**

**CRJU/LWSO/POLS 4172 - Terrorism and National Security Law**

\* **Numerous ECON Courses are Available for this Track; Check With Program Coordinator**

Rationales:

(1) Updating the program to reflect changes made in several courses to add more appropriate courses and add delete inappropriate courses.

(2) POLS 3150 American Supreme Court should be mandatory for all, replacing POLS 4171 Constitutional Law and Civil Liberties, which has been shifted to Track One. POLS 4171 is not needed for Tracks Two and Three, and students in those tracks would not have taken the (recently changed) prerequisites for POLS 4171. But all L&S majors should have a firm knowledge of the United States Supreme Court.

(3) Alternative ENGL courses were needed among the Major Field Courses given how the preferred ENGL courses fill quickly each semester. However, they are not appropriate for Track One "Government and Judicial Studies."

(4) Listing all of the appropriate ECON courses takes too much space. Students should consult with Law and Society Coordinator to determine if a desired ECON class will count.

(5) A general history of foreign policy class is too far afield. Note that POLS 5290U is not included either.

**Effective Term: Fall 2012****6. Modify Program of Study for International Studies Minor**

3. Two International Relations courses from the list below. (6 hours)

ECON 3450 - Environmental Economics

ECON 4400 - Seminar in Third World Economic Development

ECON 5200U - International Trade

ECON 5310U - International Financial Institutions Development

HIST 5100U - Topics in Latin American History

HIST 5300U - History of Russian and Soviet Foreign Policy

HIST 5480U - Topics in European History

HIST 5540U - Topics in U.S. Foreign Relations

POLS 3210 - International Relations: East Asia

POLS 5210U - International Law

POLS 5220U - Theory of International Relations

~~POLS 5230U - Constitutional Law of Foreign Policy~~

POLS 5250U - International Organizations

POLS 5260U - Media and Politics in Latin America

POLS 5280U - Seminar in Global Politics

POLS 5290U - American Foreign Policy

POLS 5270U - Intelligence and National Security Policy

POLS/CRJU 5130 - Political Terrorism

Rationale: Deletion of course.



**Effective term: Fall 2012**

**C. Economics**

**1. Create the following course:**

**ECON 3460 Economics of Immigration**

**3-0-3**

**Prerequisite: ECON 2105 or ECON 2106**

**Description: Effects of immigration and immigration policy on labor markets, economic growth, education finance, health care finance, old-age retirement, enforcement costs, and federal, state, and local government finance. Focus is primarily on U.S. immigration.**

Rationale: Immigrants and immigration policy are the subject of regular public discourse and policy debate. Much of the discourse and debate centers on the economic effects of immigration on U.S. citizens, institutions, and government. This course will teach students to use the tools of economic analysis as a framework to inform the discussion of immigration using available data and research.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course equivalent: None**

**2. Delete the following courses:**

~~ECON 5111U/G Economics of Entrepreneurship I~~ ~~3-0-3~~

~~ECON 5112U/G Economics of Entrepreneurship II~~ ~~3-0-3~~

~~ECON 5340U/G International Economics~~ ~~3-0-3~~

Rationale: The 5000-level course numbers were used to make the course accessible to students in the MALPS program. These courses have not been taken by any graduate students and are now being converted to 4000-level courses.

**Effective Term: Fall 2012**

**3. Create the following course:**

**ECON 4111 Economics of Entrepreneurship I**

**3-0-3**

**Prerequisites: ECON 3210 and ECON 3230 or permission of instructor**

**Description: A project based class focusing on the application of economic principles to real-world business formation and management. This course**

**provides instruction in both the legal and logistical requirements of starting a business and serves as a forum for development of business ideas and practices.**

Rationale: See Item 2.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: ECON 5111U**

**4. Create the following course:**

**ECON 4112 Economics of Entrepreneurship II 3-0-3**

**Prerequisites: ECON 3210 and ECON 3230 or permission of instructor**

**Description: Continuation of Economics and Entrepreneurship I, this course will cover advanced business challenges including the financial requirements of starting businesses. Students will work in groups to develop a viable business plan that will be presented to local business owners for review.**

Rationale: See Item 2.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: ECON 5112U**

**Effective Term: Fall 2012**

**5. Create the following course:**

**ECON 4340 International Economics 3-0-3**

**Prerequisite: ECON 2105**

**Description: International monetary relations, different exchange rate systems, the balance of payments adjustment, and a survey of major international financial institutions.**

Rationale: See Item 2.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: ECON 5340U**

**Effective Term: Fall 2012**

**6. Delete the following courses:**

~~ECON 5010U/G Special Topics in Economics~~

~~ECON 5020U/G Special Topics in Economics~~

~~ECON 5200U/G International Trade~~

~~ECON 5300U/G Money and Banking~~

~~ECON 5310U/G International Finance~~

~~ECON 5400U/G Economics of Labor~~

Rationale: A variety of upper level economics courses were changed to 5000 level to support graduate programs. The demand for these courses at the graduate level never materialized.

**Effective Term: Fall 2012**

**7. Recreate the following course:**

**ECON 4010 Special Topics in Economics**

**3-0-3**

**Prerequisite: ECON 2105**

**Description: Upper-level courses not otherwise offered in the economics curriculum. Various substantive topics, theoretical issues and problems, with possibility to repeat with different topics. No more than two such courses counted in the minor.**

Rationale: See Item 6

**Effective Term: Fall 2012**

**Major Department: Economics**

**Can course be repeated for additional credit? Yes**

**Maximum number of credits: 9**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: ECON 5010U**

**8. Recreate the following course:**

**ECON 4020 Special Topics in Economics 3-0-3****Prerequisite: ECON 2106****Description: Upper-level courses not otherwise offered in the economics curriculum. Various substantive topics, theoretical issues and problems, with possibility to repeat with different topics. No more than two such courses counted in the minor.**Rationale: See Item 6**Effective Term: Fall 2012****Major Department: Economics****Can course be repeated for additional credit? y****Maximum number of credits: 9****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: ECON 5020U****9. Recreate the following course:****ECON 3200 International Trade 3-0-3****Prerequisite: ECON 2106 or permission of instructor****Description: The economic importance and problems of international trade, including theories of international trade, the gains from trade, tariffs, and non-tariff barrier to trade, U.S. commercial policy, Economic integration, and trade policies of developing countries.**Rationale: See Item 6**Effective Term: Fall 2012****CURCAT:****Major Department: Economics****Can course be repeated for additional credit? No****Maximum number of credits: 3****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: ECON 5200U****10. Recreate the following course:****ECON 3300 Money and Banking 3-0-3****Prerequisite: ECON 2105 or permission of instructor****Description: The study of governmental and corporate finance, with emphasis on fiscal and monetary policy, open-market operations, discount policy, and the functions and problems associated with central banking.**Rationale: See Item 6

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: ECON 5300U**

**11. Recreate the following course:**

**ECON 4310 International Finance**

**3-0-3**

**Prerequisite: ECON 2105**

**Description: International monetary relations, different exchange rate systems, the balance of payments disequilibrium, and a survey of major international financial institutions, including IMF and the World Bank.**

Rationale: See Item 6

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Course Equivalent: ECON 5310U**

**12. Recreate the following course:**

**ECON 3400 Economics of Labor**

**3-0-3**

**Prerequisite: ECON 2106**

**Description: Survey of labor economics and labor relations, organization and operation of American trade unionism, collective bargaining, economics of the labor market, wage theory and income distribution are included.**

Rationale: See Item 6

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**  
**Course Equivalent: ECON 5400U**

**Effective Term: Fall 2012**

**13. Delete the following course:**

~~ECON 5630U/G Economic History of the United States~~

Rationale: When HIST 3630 was changed back from a 5000 level course, the economics course was not changed at the same time. This course is taught by the history department with crosslisting for economics. The economics course numbering and description should be consistent with the history course for proper crosslisting.

**Effective Term: Fall 2012**

**14. Recreate the following course, with modifications for consistency with HIST 3630, re-attach cross-listing with HIST 3630.**

**ECON 3630 Economic History of the United States** **3-0-3**

**Prerequisites: HIST 1100 or POLS 1100 or HIST 2111 or HIST 2112**

**Description: Growth and development of economics institutions in the United States from the colonial period to the present with emphasis on the period since 1860. Developments in agriculture, industry, labor, transportation, and finance. Crosslisted as HIST 3630.**

Rationale: See Item 13

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

**Can course be repeated for additional credit? No**

**Maximum number of credits: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**Cross-listed with: HIST 3630**

**Course Equivalent: ECON 5630U**

**15. Modify the following course:**

**ECON 4520 INTERNSHIP** **V-V-(1-12) 3-0-3**

**Prerequisite: permission of instructor or department head**

**Description: Open to juniors or above. Applied economic setting using nonprofit agencies such as the Chamber of Commerce, as well as financial institutions and international businesses. Supervision by departmental instructors and agency officials. Students may use only **three credit hours** ~~one internship~~ as part of their **Major Field Courses** ~~upper division economics classes~~. Open to transient students only with permission of department head.**

Rationale: The change to variable credit hours allows students to accept internship offers that may not fit neatly into the three-credit course. In cases where the internship is useful but does not require sufficient academic content, students may be allowed to do the internship for less than three credits. In cases where the necessary workload is well beyond three-credits of work, students may be allowed to earn more credits while using only three as part of the major field requirement. With the change to variable credit hours and with the course being repeatable, multiple course numbers are no longer required.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department: Economics**

Can course be repeated for additional credit? Yes

**Maximum number of credits: 12**

**Grading Mode: Pass/Fail**

**Instruction Type: Practicum**

**Course Equivalent: none**

**16. Delete the following courses:**

~~**ECON 4530 INTERNSHIP**~~

~~**ECON 4540 INTERNSHIP**~~

Rationale: With repeatable variable credit structure for ECON 4520, these are no longer needed.

**Effective Term: Fall 2012**

**10. Make the following changes to the Economics Major**

Track I: General Economics

B. Major Field Courses ..... 33 hours

ECON 3050 - Intermediate Macroeconomics

ECON 3060 - Intermediate Microeconomics

ECON 3700 – Econometrics

ECON 4900 - Economic Methods and Senior Thesis

Twenty one credit hours drawn from at least three of the following categories:

Global

ECON 3100 - Multinational Economic Enterprises

ECON 4400 - Seminar in Third World Economic Development

ECON 4450 – Comparative Economics

ECON ~~3200~~ ~~5200U~~ - International Trade

ECON ~~4310~~ ~~5310U~~ - International Finance

## Quantitative

ECON 3600 - Mathematical Economics  
 ECON 3800 - Quantitative Consumer Research

## Applied

ECON 3470 - Economics of Health  
 ECON 3500 - Managerial Economics  
 ECON 4451 - Industrial Organization  
 ECON 4460 - Economic Analysis of the Law  
 ECON ~~3400~~ ~~5400U~~ - Economics of Labor

## Financial

ECON 3230 – Finance  
 ECON 4100 - Financial Economics: Portfolio Analysis  
 ECON 4150 - Money and Capital Markets  
 ECON ~~3300~~ ~~5300U~~ - Money and Banking

## Public Policy and Economic History

ECON 3450 - Environmental Economics  
**ECON 3460 – Economics of Immigration**  
 ECON 4410 - Regional Economics  
 ECON 4500 - Public Finance  
 ECON 4550 - Public Choice  
 ECON ~~3630~~ ~~5630U~~ - Economic History of the United States

## Internships and Specialized Courses

ECON 3950 - Research in Economics  
 ECON 3960 - Research in International Economics  
 ECON 4520, ~~30~~, ~~40~~ - Internship (with permission of department head)(maximum of **three credits** ~~one internship~~ may count toward **Major Field Courses degree**)  
 ECON 5010, ~~20~~, ~~30~~ Special Topics in Economics  
**ECON 4010, 4020, 5030U Special Topics in Economics**

C. Related Field Courses ..... 9 hours

ITEC 1050 - Introduction to Computer Concepts or CSCI 1060 - Computer Concepts and Applications

Six credit hours of upper division courses from the following fields: anthropology, communication, economics, English (3720, 5710, 5740, 5750 only), geography, information technology, mathematics, philosophy, political science, psychology, or sociology.

D. Electives ..... 18 hours

## Track II: International Economics

The international track requires a language sequence in Area F and at least three credits earned toward the degree in an international study program. Students participating in the international



track are expected to choose project, paper, and research topics related to international economics whenever possible.

B. Major Field Courses ..... 33 hours

ECON 3050 - Intermediate Macroeconomics

ECON 3060 - Intermediate Microeconomics

ECON 3700 – Econometrics

ECON 4900 - Economic Methods and Senior Thesis

ECON ~~3200~~ ~~5200U~~ - International Trade

ECON ~~4310~~ ~~5310U~~ - International Finance

Fifteen credit hours drawn from among the following courses:

ECON 3100 - Multinational Economics Enterprises

ECON 3210 – Marketing

ECON 3220 – Management

ECON 3230 – Finance

ECON 3450 - Environmental Economics

**ECON 3460 – Economics of Immigration**

ECON 3470 – Economics of Health

ECON 3500 - Managerial Economics

ECON 3960 – Research in International Economics

ECON 4100 - Financial Economics: Portfolio Analysis

ECON 4150 - Money and Capital Markets

ECON 4400 - Seminar in Third World Economic Development

ECON 4450 – Comparative Economics

ECON 4500 - Public Finance

ECON ~~3300~~ ~~5300U~~– Money and Banking

C. Related Field Courses ..... 9 hours

ITEC 1050 - Introduction to Computer Concepts or CSCI 1060 - Computer Concepts and Applications

Six credit hours of upper division courses outside the economics discipline approved for the International Studies minor.

D. Electives ..... 18 hours

Track III: Business Economics

B. Major Field Courses ..... 33 hours

ECON 3050 - Intermediate Macroeconomics or ECON 3060 Intermediate Microeconomics

ECON 3210 – Marketing

ECON 3220 – Management

ECON 3230 – Finance

ECON 3500 – Managerial Economics

ECON ~~4111~~ ~~5111~~ – Economics of Entrepreneurship I

ECON ~~3300~~ ~~5300U~~ – Money and Banking

Twelve credit hours drawn from among the following courses:

ECON 3050 - Intermediate Macroeconomics

ECON 3060 – Intermediate Microeconomics

ECON 3450 - Environmental Economics

**ECON 3460 – Economics of Immigration**

ECON 3470 - Economics of Health

ECON 3700 – Econometrics

ECON 3800 - Quantitative Consumer Research

ECON 3100 - Multinational Economic Enterprises

ECON 4100 - Financial Economics: Portfolio Analysis

ECON 4150 - Money and Capital Markets

ECON 4410 - Regional Economics

ECON 4450 – Comparative Economics

ECON 4451 - Industrial Organization

ECON 4500 - Public Finance

ECON ~~4520, 30, 40~~ - Internship (with permission of department head)(maximum of **three credits** ~~one internship~~ may count toward **Major Field Courses** ~~degree~~)

ECON ~~4112 5112U~~ - Economics of Entrepreneurship II

ECON ~~3200 5200U~~ - International Trade

ECON ~~4310 5310U~~ - International Finance

ECON ~~3400 5400U~~ - Economics of Labor

C. Related Field Courses ..... 15 hours

ITEC 1050 - Introduction to Computer Concepts or CSCI 1150 Fundamental of the Internet and World Wide Web

COMM 2280 Speech Communication

Nine credit hours of upper division courses from among the following fields/courses:

COMM 3060 Public Relations

COMM 5050U Interpersonal Communication in the Workplace

ENGL 3720 Business and Technical Communication

ENGL 5710 Writing for the Non-Profit Sector

ENGL 5740 Technical Editing

ENGL 5750 Publication Design

HSCA 3600 Financial Management for Health-Related Organizations

HSCA 4201 Health Care Marketing

HSCA 4600 Principles of Human Resource Management

HSCA 4620 Principles of Management in Health Service Organizations

ITEC 3500 Database Administration

ITEC 3710 E-Commerce

POLS 4190/LWSO 4190 Environmental Laws and Regulations

PSYC 3000 Human Resource Development Skills

PSYC 5150U Conflict Resolution

PSYC 5200U Industrial and Organizational Psychology

PSYC 5300U Leadership and Group Dynamics

**Any upper division economics courses (3000+) except for ECON 5150**

D. Electives ..... 12 hours

Total Semester Hours 123 hours

E. Regents' Test, university exit exam, and department exit exam

**Effective Term: Fall 2012**

- D. History (no items)
- E. Gender and Women's Studies (no items)

**F. Languages, Literature, & Philosophy**

**1. Modify the following course title:**

PHIL 2030 ~~Introduction to Ethics and Contemporary Moral Philosophy~~ **Introduction to Ethics and Moral Issues** 3-0-3

Rationale: This phrase “moral issues” is clearer and more easily understandable to students than “contemporary moral philosophy” and this change reflects modern philosophical usage in the majority of ethics texts from the past decade covering the various areas of applied ethics.

**Effective Term: Fall 2012**

**2. Create the following Course:**

**PHIL 4500 Philosophy Practicum** 3-0-3

**Prerequisite:** 18 semester hours of 3000 level or above PHIL courses

**Description:** Senior philosophy students are placed in leadership roles teaching study sessions, tutoring students, and leading group discussions related to lower division courses. Students complete a senior writing project for public presentation (e.g. conference presentation, submission to philosophy journal, philosophy newsletter, lectures for class study sessions, essays for graduate school applications, etc.). Writing project topics, which may be interdisciplinary, negotiated during required periodic conferences with instructor. Other practicum activities may include philosophy-related internships or assisting philosophers with research-related projects.

Rationale: This course will be required for the new philosophy major program proposed below and will provide opportunity for program assessment functions similar to other capstone courses.

**Effective Term: Fall 2012**

**CURCAT:**

**Major Department:** Languages, Literature, & Philosophy

**Can the course be repeated for additional credit:** No

**Maximum number of credit hours:** 3

**Grading Mode:** Normal

**Instructional Type:** Internship/Practicum

### 3. Create the following Bachelor of Arts Program with a Major in Philosophy:

Rationale: The number of philosophy minors is growing. The program can be sustained with existing resources (i.e. no new philosophy positions are required and the upper level courses required for the major, except the one new course addition above, are already being delivered regularly within a two year rotation). The program is designed to be part of a double major allowing for a large number of free upper level electives thereby minimizing competition between programs. A program in philosophy directly contributes to the fulfillment of AASU's mission statement of "educating students in the liberal arts tradition...." The potential benefits for academics, retention, and growth are greater than the negligible financial risks.

**Effective Term: Subject to approval by the Board of Regents**

#### **PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN PHILOSOPHY**

##### **A. General Requirements**

Core Areas A, B, C, D, and E.....42 hours

Area F.....18 hours

PHIL 2010 Introduction to Philosophy

PHIL 2030 Introduction to Ethics & Moral Issues

1002 level Foreign Language Course

Three additional 1000/2000 level courses

Physical Education.....3 hours

##### **B. Major Field Courses.....24 hours**

Four Courses from:

PHIL 3110 Ancient Philosophy

PHIL 3120 Medieval Philosophy and the Rise of Humanism

PHIL 3130 Continental Rationalism and British Empiricism

PHIL 3140 Kant and the 19<sup>th</sup> Century

PHIL 3150 Twentieth Century Philosophy

Nine semester hours of PHIL courses at the 3000 level or above

PHIL 4500 – Philosophy Practicum

##### **C. Related Field Courses.....15 hours**

Fifteen semester hours of courses at the 3000 level or above

##### **D. Electives.....21 hours**

**Total Semester Hours**

**123 hours**

##### **E. Regents' Test and Exit Exam**

##### **Progress Requirements**

Students must earn a grade of C or better in every course required for the major or minor.

G. Liberal Studies (no items)

H. Honors Program (no items)

## IV. College of Science and Technology

### A. Biology

#### 1. Modify the following course:

BIOL 2020 ~~SURVEY OF THE KINGDOMS PLANTAE AND FUNGI~~ **PLANT BIOLOGY** 3-3-4

Prerequisite BIOL 1108 (minimum grade of C) or BIOL 1108H (minimum grade of C)

Course description: ~~Phylogeny, morphology and ecology of plants, fungi, and lichens including prokaryotic and eukaryotic algae, bryophytes, extinct early land plants and their extant species and fossil records of ferns, gymnosperms and flowering plants.~~

**Evolution and diversity of plants, including comparative morphology, anatomy, physiology, growth and development, and reproduction. Plants will be examined at the cellular, organismal, and community levels. Laboratories may include field trips.**

Rationale: Course curriculum now focuses entirely on the plant kingdom. Fungi are covered in BIOL 3800 (Mycology).

**Effective Term: Fall 2012**

#### 2. Modify the following course:

BIOL 3200 ~~PLANT TAXONOMY AND IDENTIFICATION OF FLOWERING PLANTS~~ **1-7-4 3-4-4**

Prerequisite: BIOL 2020 (minimum grade of C)

Taxonomic systems used in plant classification, dichotomous keys, phytography, concepts of taxa, and uses of herbaria. Characteristics of major **vascular flowering** plant families in the southeastern United States. Museum quality plant collection required. **Will include** ~~Weekly field trips. and trips to mountain regions and Florida.~~

Rationale: Course curriculum will expand to cover major plant groups, not just flowering plants. In addition, field trips will be local to take advantage of Savannah's surrounding environment, resulting in less total lab hours required.

**Effective Term: Fall 2012**

#### 3. Modify the following course:

BIOL 2010 MICROBIOLOGY 3-3-4

Prerequisite BIOL 1107 (minimum grade of C) or BIOL 1107H (minimum grade of C)

Genetics, classifications and methods of control of bacteria, fungi, protozoa and viruses, with introduction to medical, industrial and environmental microbiology (**Not intended for pre-health professions students**).

Rationale: The Biology Department offers two microbiology classes: BIOL 2275 and BIOL 2010. Because BIOL 1107 is the only pre-requisite for BIOL 2010, pre-nursing students have accidentally registered for the wrong microbiology class.

**Effective Term: Fall 2012**

#### 4. Modify Program of Study for the Bachelor of Science in Biology

##### PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

###### A. General Requirements

Core Areas A, B, C, D, and E ..... 42 hours

Biology majors are required to take MATH 1113 in core area A and CHEM 1211, CHEM 1212 and MATH 2200 in core area D.

Area F ..... 18 hours

BIOL 1107- Principles of Biology I or BIOL 1107H Honors Principles of Biology I

BIOL 1108- Principles of Biology II or BIOL 1108H Honors Principles of Biology II

BIOL 2010- Microbiology

BIOL 2400- Introduction to Cell and Molecular Biology

CHEM 2101- Organic Chemistry I

Physical Education ..... 3 hours

###### Track I: General Biology

B. Major Field Courses ..... 35-40 hours

Required Courses (16 hours)

BIOL 2020- ~~Survey of the Kingdoms Plantae and Fungi~~ **Plant Biology**

BIOL 3000- Cell Biology

BIOL 3700- Genetics

BIOL 4700- General Ecology

BIOL 4801- Senior Seminar in General Biology

Elective Courses (19-24 hours)

Choose one of the following:

BIOL 4150- Plant Physiology

BIOL 4200- Mammalian Physiology

BIOL 4210- Comparative Physiology

Choose one of the following:

BIOL 3470- Environmental Restoration

BIOL 3600- Salt Marsh Ecology

BIOL 4320- Environmental Microbiology

BIOL 4460- Phytoplankton Ecology

BIOL 4750- Tropical Field Biology

Choose two of the following:

BIOL 3520- Medical Microbiology

BIOL 4000- Cancer Biology

BIOL 4010- Evolution

BIOL 4100- Cell and Molecular Biology Laboratory

BIOL 4220- Endocrinology

BIOL 4310- Applied Microbiology

BIOL 4400- Virology

BIOL 4500- Bioinformatics and Biotechnology

BIOL 4510- Molecular Development

BIOL 4650- Immunology

Choose two of the following:

BIOL 3020- Vertebrate Zoology

BIOL 3150- Horticulture

BIOL 3200- **Plant** Taxonomy ~~and Identification of Flowering Plants~~

BIOL 3300- Entomology

BIOL 3310- Invertebrate Zoology

BIOL 3750- Natural History of Vertebrate Animals

BIOL 3770- Developmental and Comparative Anatomy of the Vertebrates

BIOL 3800- Mycology  
 BIOL 3920- Parasitology  
 BIOL 4550- Biology of Marine Organisms  
 BIOL 4600- Ichthyology  
 C. Related Field Course ..... 1 hour  
 CHEM 2101L- Organic Chemistry I Lab  
 D. Electives ..... 19-24 hours  
 Select free electives to bring total of 3000+ course work to at least 39 hours.

Track II: Marine Biology

B. Major Field Courses ..... 35-36 hours

Required Courses (20 hours)

BIOL 2020- ~~Survey of the Kingdoms Plantae and Fungi~~ **Plant Biology**

BIOL 3000- Cell Biology

BIOL 3700- Genetics

BIOL 4700- General Ecology

BIOL 4550- Biology of Marine Organisms

BIOL 4802- Senior Seminar in Marine Biology

Elective Courses (15-16 hours)

Choose one of the following:

BIOL 4150- Plant Physiology

BIOL 4200- Mammalian Physiology

BIOL 4210- Comparative Physiology

Choose one of the following:

BIOL 3020- Vertebrate Zoology

BIOL 3310- Invertebrate Zoology

BIOL 3750- Natural History of Vertebrate Animals

Choose two of the following:

BIOL 4320- Environmental Microbiology

BIOL 3200- ~~Plant Taxonomy and Identification of Flowering Plants~~

BIOL 4460- Phytoplankton Ecology

BIOL 4750- Tropical Field Biology

BIOL 4600- Ichthyology

C. Related Field Courses ..... 9 hours

CHEM 2101L- Organic Chemistry I Lab

PHYS 1111K- Introductory Physics I or PHYS 2211K- Principles of Physics I

MATH 1161- Calculus I (If taken in core area A, then substitute with either MATH 2072;

PHYS 1112K or PHYS 2212K)

D. Electives ..... 15-16 hours

Select free electives to bring total of 3000+ course work to at least 39 hours.

Track III: Cell and Molecular Biology

B. Major Field Courses ..... 26-29 hours

Required Courses (13 hours)

BIOL 3000- Cell Biology

BIOL 3700- Genetics

BIOL 4100- Cell and Molecular Biology Laboratory

BIOL 4500- Bioinformatics and Biotechnology

BIOL 4803- Senior Seminar in Cell and Molecular Biology

Elective Courses (13-16 hours)

Choose one of the following:

BIOL 4150- Plant Physiology

BIOL 4200- Mammalian Physiology

BIOL 4210- Comparative Physiology

Choose one of the following:

BIOL 3020- Vertebrate Zoology

BIOL 3300- Entomology

BIOL 3310- Invertebrate Zoology

BIOL 3750- Natural History of Vertebrate Animals

BIOL 3800- Mycology

BIOL 3920- Parasitology

Choose two of the following:

BIOL 3520- Medical Microbiology  
 BIOL 4000- Cancer Biology  
 BIOL 4010- Evolution  
 BIOL 4220- Endocrinology  
 BIOL 4310- Applied Microbiology  
 BIOL 4320- Environmental Microbiology  
 BIOL 4400- Virology  
 BIOL 4510- Molecular Development  
 BIOL 4650- Immunology  
 C. Related Field Courses ..... 16 hours  
 CHEM 2101L- Organic Chemistry I Lab  
 CHEM 2102/2102L- Organic Chemistry II  
 CHEM 3801- Biochemistry  
 PHYS 1111K- Introductory Physics I or PHYS 2211K- Principles of Physics I  
 PHYS 1112K-Introductory Physics II or PHYS 2212K- Principles of Physics II  
 D. Electives ..... 15-18 hours  
 Select free electives to bring total of 3000+ course work to at least 39 hours.  
 Total Semester Hours 123 hours  
 E. Regents' Test and Exit Exam

**Effective Term: Fall 2012**

**5. Create the following course for addition to Core Area D.1 (see Attachment 3)**  
**BIOL 1103 Concepts of Biology** **3-3-4**

**Prerequisite: Eligible for ENGL 1101**

**Description: May include topics such as evolution, ecology and the environment, genetics and heredity, diversity of life, cells and cellular energy, biomolecules, and the scientific process. (Credit in this non-majors course may not be applied to the Area F requirement in biology. Course not intended for science majors or clinical health majors).**

Rationale: Currently the university curriculum offers BIOL 1107 'Principles of Biology I,' a course that is open to both biology majors and non-majors. Due to the mixed population of students, BIOL 1107 covers biological topics in a generalized way. This curriculum is hindering the biology major, a student who requires biological information that is more focused, and detailed. The Department of Biology at Armstrong has recently decided to create a new lab course, strictly for non-majors, while maintaining BIOL 1107 for biology majors and students interested in the pre-health sciences. The new course, BIOL 1103 'Concepts of Biology,' will focus on current, applicable topics in biology that will contribute to a well-rounded education for non-majors. In turn, BIOL 1103 will allow the BIOL 1107 curriculum to become more specialized to enhance the experience of the biology major and to help prepare the major for more rigorous, upper level courses. BIOL 1103 is currently taught at the University of Georgia, Middle Georgia State, Savannah State, and other Georgia Colleges and Universities. Offering BIOL 1103 at Armstrong will allow students an easy transfer to or from other schools. We propose that BIOL 1103 be taught fall, spring, and summer semesters by various faculty of the Department of Biology, beginning Fall, 2012. We propose that this course be added to Core Area D, Option I Non-Science Majors. See syllabus and attached BOR form.

**Effective Term: Subject to Board of Regents Approval**

**CURCAT:**

**Major Department: Biology**



**Can Course be repeated for additional credit? No**  
**Maximum Number of Credit Hours: 4**  
**Grading Mode: Normal**  
**Instruction Type: Lecture and Laboratory**  
**Course Equivalent: None**

## 6. Modify Core Area D.1

### Core Area D:

#### Math, Science & Technology 10-11 hours

##### Option I. Non-Science Majors:

1. One lab science course selected from: ..... 4 hours

**BIOL 1103 - Concepts of Biology (and lab)**

BIOL 1107 or 1107H - Principles of Biology I

CHEM 1151/1151L - Survey of Chemistry I

CHEM 1211 - Principles of Chemistry I (and lab)

CHEM 1152/1152L - Survey of Chemistry II

CHEM 1211/1211L - Principles of Chemistry I

CHEM 1212/1212L or CHEM 1212H/1212A - Principles of Chemistry II

GEOL 2010 or 2010H - Introduction to Physical Geology

PHSC 1211 - Physical Environment

PHYS 1111K - Introductory Physics I

PHYS 1112K - Introductory Physics II

PHYS 2211K - Principles of Physics I

PHYS 2212K - Principles of Physics II

SCIE 1000 - Introduction to Scientific Inquiry

SCIE 1212/1212L - Chemical Environment

3. One course in mathematics, science, or technology chosen from: ..... 3 hours

ASTR 1010 - Astronomy of the Solar System

ASTR 1020 - Stellar and Galactic Astronomy

**BIOL 1103 - Concepts of Biology (and lab)**

BIOL 1107/1107L or 1107H/1107A - Principles of Biology I

BIOL 1108/1108L or 1108H/1108A - Principles of Biology II

BIOL 1120 - The Diversity of Life

BIOL 1130 - Human Biology

BIOL 1140 - Environmental Biology

CHEM 1151/1151L - Survey of Chemistry I

CHEM 1152/1152L -- Survey of Chemistry II

CHEM 1211/1211L - Principles of Chemistry I

CHEM 1212/1212L or CHEM 1212H/1212A - Principles of Chemistry II

CSCI 1150 - Fundamentals of the Internet and World Wide Web

CSCI 1301 or CSCI 1301H - Introduction to Programming Principles

GEOL 2010 or GEOL 2010H - Introduction to Physical Geology

MATH 1113 - Precalculus Mathematics

MATH 1161 or 1161H - Calculus I

MATH 1950 - Applied Mathematics for Non-Science Majors

MATH 2200 - Elementary Statistics

PHSC 1211 - Physical Environment

PHYS 1010 - The Physics of Sports

PHYS 1111K - Introductory Physics I

PHYS 1112K - Introductory Physics II

PHYS 2211K - Principles of Physics I

PHYS 2212K - Principles of Physics II

SCIE 1000 - Introduction to Scientific Inquiry

SCIE 1212/1212L - Chemical Environment

**Rationale: To add new course.**

**Effective Term: Subject to Board of Regents Approval**

**B. Chemistry & Physics****1. Create the following course:****CHEM 2000 Fundamentals of Organic Chemistry and Biochemistry 3-0-3****Prerequisite: CHEM 1212 (minimum grade of C)****Fundamentals of organic chemistry applied to the major biochemical pathways.****Course designed for allied health majors. (Credit may not be applied to the major field requirement in chemistry.)**

Rationale: Expanding knowledge and applications in biochemistry requires that a variety of majors become conversant in the field. The biochemistry courses currently taught in the Department of Chemistry and Physics are comprehensive and intended for chemistry majors having the Organic Chemistry I and II sequence (CHEM 2101 and 2102) as pre-requisites. This course represents a complement to the existing course structure providing the fundamentals of organic chemistry applied to the major biochemical pathways.

**Effective Term: Fall 2012****CURCAT:****Major Department: Chemistry & Physics****Can course be repeated for additional credit? No****Maximum number of credit hours: 3****Grading Mode: Normal****Instruction Type: Lecture****Course equivalent: None**

C. Computer Science and Information Technology (no items)

D. Engineering Studies (no items)

**E. Mathematics****1. Modify the Program of Study for the Minor in Mathematics**

Minors

Mathematics ..... 16-17 hours

MATH 2072 - Calculus II

**Either MATH 2083 - Calculus III or MATH 2160 – Linear Algebra**

Nine additional semester hours chosen from ~~MATH 2160~~ and mathematics or statistics courses numbered 3000 or higher (excluding MATH 3201, 3750, 3911, 3912, 3932, 4961, 4962, 4963, 4750, 5412U and 5911U). STAT courses cannot be used simultaneously for a mathematics and statistics minor.

Rationale: This change will allow the minor to comply with the current BOR requirements.

**Effective Term: Fall 2012**

**2. Modify the following course:****MATH 3480 OPTIMIZATION AND GRAPH THEORY****3-0-3**

Prerequisite: MATH 2160

Description: ~~Network analysis topics including shortest path, maximum flow, min cut/max flow theorem, minimum cost networks, minimum spanning trees, matching and coloring problems;~~ **Additional topics from operations research including nonlinear, integer programming. Operations research topics including nonlinear programming, network analysis, Markov chains, game theory, and inventory theory.**

Rationale: The modification of this course was needed as the breadth of topics possible in Optimization justifies its own course, as well as the breadth of topics possible in Graph Theory. Also, the topics covered in Optimization can now be covered in more depth.

**Effective Term: Fall 2012****3. Create the following course:****MATH 4340 Graph Theory****3-0-3**

Prerequisite: MATH 3000

Description: **Graphs and digraphs, trees, connectivity, matchings, paths, cycles, bipartite graphs, Euler's formula, planar graphs, and graph coloring.**

Rationale: The creation of this course picks up the topics dropped from MATH 3480 and allows more topics in Graph Theory to be expanded upon. Also, the prerequisite of MATH 3000 will allow a deeper exploration of topics covered in Graph Theory.

**Effective Term: Fall 2012****CURCAT:****Major Department: Mathematics****Can Course be repeated for additional credit? No****Maximum Number of Credit Hours: 3****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: None****4. Change in Program of Study for Applied Mathematics with Operations Research Concentration**

C. Related Field Courses ..... 21-27 hours

CSCI 1302 - Advanced Programming Principles

Complete the prescribed courses in one of the following concentration areas and, if needed, additional courses to complete the requirement of at least 39 semester hours of upper-division courses. These additional courses may be chosen from mathematics, the concentration area, ENGL 3720, or HIST 5640.

Actuarial science:

ECON 2105 or ECON 2106

STAT 3222

MATH 3251 or 3460

MATH 4200

Two courses selected from:

ECON 3050, 3060, 3500, 3600, 3700, or 5300U

Biology: minor in biology

Chemistry: minor in chemistry

Computer science: minor in computer science

Economics: minor in economics

Engineering studies: minor in engineering studies

Operations research:

**Complete 6 of the 7 courses:**

STAT 3222 – Probability and Statistics Applications II

MATH 3251 – Combinatorics

MATH 3460 – Introduction to Operations Research

MATH 3480 – Optimization ~~and Graph Theory~~

**MATH 4340 – Graph Theory**

MATH 4400 – Operations Research Seminar

MATH 4610 – Numerical Analysis

Rationale: MATH 4340 is an acceptable course for this concentration area.

**Effective Term: Fall 2012**

F. Psychology (no items)

## **OTHER BUSINESS**

## **ADJOURNMENT**

## College of Education

## B. Childhood and Exceptional Student Education

**Note of Clarification:** The following changes to the Program for the Degree Bachelor of Special Education: Cross Categorical were approved by the UCC on November 18, 2009 and then approved by the Faculty Senate on January 11, 2010. (See archived minutes of both committees). These changes were to appear in the upcoming catalog, but the program was pulled by Dean Wachholz in order to allow the enrolled candidates to complete the program of study and to allow the CoE to revise the program of study to incorporate new Professional Standards Commission rules regarding special educators becoming “highly qualified.” Changes to the program of study being presented today to the UCC are based not on the last catalog in which the program appeared but on the revisions presented below that were approved by the appropriate committees in 2009 and 2010 but not published.

A. **Special and Adult Education** (changes approved November 18, 2011 and January 11, 2010)

1. **Change the prerequisite for the following courses:**

- a. SPED 2003 Curriculum and Educational Practices for Students with Disabilities  
Prerequisites: ~~CEUG 1010~~, CEUG 2100, and Admission to Candidacy in the Department of Special and Adult Education.
- b. CEUG 2100 Introduction to Students with Disabilities  
Prerequisite: ~~CEUG 1010~~
- c. SPED 3006 Assessment  
Prerequisites: ~~CEUG 1010~~, CEUG 2100, and Admission to Candidacy in the Department of Special and Adult Education.
- d. SPED 3009 Physical and Health Disabilities  
Prerequisites: ~~CEUG 1010~~, CEUG 2100, and Admission to Candidacy in the Department of Special and Adult Education.

Rationale: The prerequisite, CEUG 1010 Human Growth and Development, is no longer part of the Program of Study for the Degree of Bachelor of Science in Special Education: Cross-Categorical

**Effective Term: Fall 2010**

2. **Delete the following courses:**

<del>SPED 3020 Field Experiences: Grades P-5</del>	<del>1</del>	<del>V</del>	<del>1</del>
<del>SPED 3040 Field Experiences: Grades 6-8</del>	<del>1</del>	<del>V</del>	<del>1</del>
<del>SPED 3060 Field Experiences: Grades 9-12</del>	<del>1</del>	<del>V</del>	<del>1</del>

Rationale: These field experiences have been replaced by SPED 4740 Internship I (approved by the University Curriculum Committee on 10-21-09). Consolidation of these courses into one internship brings the program into alignment with recent changes in state accreditation standards.

**Effective Term: Fall 2010**

**3. Modify the following program of study:**

Program for the Degree of Bachelor of Science in Special Education: Cross-Categorical

General Requirements (Core Areas A, B, C, D, and E)	42 hours
Area F Courses	18 hours
Physical Education	3 hours
EDUC 2120 Exploring Socio-cultural Perspectives in Diversity in Education Contexts	
EDUC 2130 Exploring Learning and Teaching	
EDUC 2110 Investigating Critical & Contemporary Issues in Education	
<del>CEUG 1010 Lifespan Development</del>	
CEUG 3010 Constructing Literacy Programs P-12	
CEUG 3012 Language Acquisition	
CEUG 2100 Intro to Students w/ Disabilities	
Major Field Courses	61 hours
EDUC 3100 Technology Applications for Teachers	
SPED 2001 Field of Special Education Past & Future	
SPED 2003 Curriculum and Educational Practice for Students with Disabilities	
SPED 3001 Assistive and Adaptive Technology for the Special Educator	
SPED 3009 Physical and Health Disabilities	
SPED 3006 Assessment	
SPED 3007 Eligibility & IEP Development	
EDUC 3200 Curriculum, Instruction, Assessment	
SPED 4002 Teaching Math to Students with Disabilities	
SPED 4003 Teaching Reading, Spelling, & Written Expression	
SPED 4004 Instructional Strategies Content Areas	
SPED 4005 Strategies for Developing Social Skills & Behavioral Control	
EDUC 3400 Classroom Management Strategies	
SPED 4006 Planning & Managing the Learning Environment	
SPED 4008 Collaborative Procedures Fostering Inclusion and Transitions	
<del>SPED 3020 Field Experiences P-5</del>	
<del>SPED 3040 Field Experiences 6-8</del>	
<del>SPED 3060 Field Experiences 9-12</del>	
SPED 4007 Directed Field Based Research	
<b>SPED 4740 Internship I</b>	
SPED 4750 Internship II	

**Effective Term: Fall 2010**

CoE Syllabus Template (Complete syllabus in template form then file a copy with department head **and** in LiveText Exhibit Room)

**Course Number and Title: EDUC 5455 U/G Study Abroad in Teacher Education 3-V-3**

CRN: Semester \_\_\_ Year \_\_\_

Day/Time/Room: Check one: \_\_\_100% online web enhanced \_\_\_%  
for web enhanced, record total hours **face-to-face** \_\_\_\_\_

Instructor: Office location:

Telephone: e-mail: Dept. Telephone: Dept. FAX:

Office Hours: Days/Times (for a total of 10 hours each week)

**Course Prerequisites/co-requisites:** Candidacy in the College of Education, permission of the instructor

**Course Description:** This course will allow teacher education candidates in the College of Education to experience study abroad. The course will prepare candidates for travel abroad by engaging them in study of the culture, cultural transmission to the young, the education system, and the role of the teacher in the designated country in which the study abroad field experience will occur. Candidates will travel to the country and engage in either research or teaching activities to learn more about the theories, philosophies, and practices that support the country's educational processes for children and adolescents who are comparable to K-12 students in the United States. **A field experience is required.**

**Course Rationale:** This course is designed to allow candidates in teacher education programs of study to view education and the role of the teacher through the lens of a foreign culture. It will help expand candidates' cultural awareness and perspectives. Graduate level candidates will be assigned course activities appropriate for graduate study.

**Text:**

SUGGESTIONS:

Williams, W. (2004). *Study abroad 101*. Kalamazoo, MI: Agapy Publishing, ISBN 9780972132831

Peterson, B (2004). *Cultural intelligence: A guide to working with people from other cultures*. Yarmouth, ME: Intercultural Press, ISBN 9781931930000

Dresser, N. (2005). *Multicultural manners: Essential etiquette for the 21st century*. Hoboken, NJ: John Wiley & Sons, ISBN 9780471684282

Gay, G (2003). *Becoming multicultural educators: Personal journey toward professional agency*, Hoboken, NJ: John Wiley & Sons, ISBN 9780787965143

Lindsay, R., Karns, M., & Myatt, K. (2010). *Culturally proficient education: An asset-based response to conditions of poverty*. Thousand Oaks, CA: SAGE/Corwin. ISBN 9781412

**Resources to support instruction:** (web sites, texts, style manual, videos, etc)

\_\_\_\_\_(2008). *Standards of good practice for education abroad*. Carlisle, PA: The Forum on Education Abroad.

*Style manual of the American Psychological Association (APA)*, latest edition.

\_\_\_\_\_(2002) *Responsible study abroad: Good practices for health and safety*. Washington, D.C: NAFSA: Association of International Educators. Go to <http://www.nafsa.org/publications/default.aspx>

Additional articles, web sites, and materials pertinent to the designated country will be provided by the instructor.

**Course Goals:**

1. To support teacher candidates' intellectual growth by introducing them to experiences and interactions that reflect different cultural perspectives and frames of reference.
2. To stimulate candidates' interest in international, comparative, and cross-cultural learning experiences.
3. To help candidates gain awareness of how their chosen profession, teaching, is viewed and practiced in a different culture.
4. To facilitate candidates' understanding of the role of the school in transmitting culture to students.
5. To foster candidate's skills in relating to and interacting appropriately and effectively with individuals and groups from a culture different from their own.
6. To enhance candidates' awareness and knowledge of their own culture by providing opportunities for them to compare and contrast the values, customs, beliefs, and traditions of the study abroad location and their own.
7. To facilitate candidates' deeper understanding of educational theories, philosophies, and practices of their own country by having them compare and contrast them with those of the host country.
8. To encourage integrative and comprehensive internationalization strategies for preparing candidates for a global society. (Regents Principles 1,4,6,8)

**Course Objectives/Learning Outcomes:** Upon successful completion of this course, the candidate will...

Objective	PSC, and/or National Organization Standard (appropriate for the candidate's program of study)	Assessment
<b>EXAMPLES</b>		




Note: List the **Georgia K-12 standards** covered in this course if appropriate to course content.

Course Outline: (List topics in the order in which they will be covered)

I.

II.

III. Course Activities and Assignments:

1. Instructor will provide an explanation of the Professional Education Unit's Conceptual Framework.
2. Graduate students will be assigned projects appropriate for advanced study.
3. Candidates will maintain a reflection log during the field experience.
4. Candidates will prepare a portfolio electronically that will detail their experiences and reflections using guidelines and evaluation rubrics provided by the instructor.
5. Quizzes and/or examinations as scheduled by instructor.
6. Other assignments as appropriate.

Sample topics for exploration in regard to the host country:

Teacher preparation and certification

Role of teacher in the society

Role of school in the transmission of culture

Integration of or separation of religious and state supported schools

Separation of males and females in educational settings

Comparisons of student's right to privacy (FERPA) with the policies of the host country

Comparison of instructional strategies and methodologies

Classroom/school assessment practices and procedures

Performance standards for students, who sets them, how are they monitored and changed?

How is curriculum established at the various instructional levels?

What are the standards for classroom management?

Where and how do student with disabilities receive their instruction?

How are issues of cultural or language diversity handled in the schools?

Who are the leading theorists or respected experts who influence education in the host country? What is the degree of influence?

What is the structure of school administration?

What are post secondary education options for students? How are students selected for these educational opportunities?

**Course Requirements:** (**Include** adherence to an **attendance** policy, adherence to the guidelines provided in the statement on **plagiarism**, and adherence to the Student Code of Conduct in undergraduate catalog and graduate catalogs at [www.es.armstrong.edu/catalog/current\\_catalog.pdf](http://www.es.armstrong.edu/catalog/current_catalog.pdf) and at [www.gs.armstrong.edu/Catalog/current\\_grad\\_catalog.pdf](http://www.gs.armstrong.edu/Catalog/current_grad_catalog.pdf) )

Disability Notice:

**Grading System:** The course will adhere to the grading system provided in Section 3 .5.1.1 of the Policy Manual of the Board of Regents of the University System of Georgia.

Scoring Rubrics and/or Scoring Guidelines: (Append as applicable)

Course Calendar: (Note: If course is **web-enhanced**, list **all** days and **times** class will meet **face-to-face**).

Reading list or knowledge based bibliography and/or other information pertinent to the course:

12/8/2010/jwb

**Knowledge Based Bibliography**

**EDUC 5455U/G**

Brewer, E., & Cunningham, K. (2009). *Integrating study abroad into the curriculum*. Sterling, VA; Stylus Publishing, LLC.

Castells, M. (2005). *The network society: A cross-cultural perspective*. Northampton, MA: Edward Elgar Publications

Davidman, L., & Davidman, P. (200). *Teaching with a multicultural perspective* (3<sup>rd</sup> ed.) New York: Longman.

Dresser, N. (2005). *Multicultural manners: Essential etiquette for the 21st century*. Hoboken, NJ: John Wiley & Sons

Gay, G (2003). *Becoming multicultural educators: Personal journey toward professional agency*, Hoboken, NJ: John Wiley & Sons

Gay, G. (2000). *Culturally responsive teaching: theory, research, and practice*. New York: Teachers College Press.

Geilen, U., & Roopnarine, J. (Ed.) (2004). *Childhood and adolescence: Cross-cultural perspectives and applications*. Westport, CT: Praeger Publishers

Gorski, P. (2008). The myth of the "culture of poverty." *Educational Leadership*, 65(7), 32.

Hollis, E. (2008). *Culture in school learning: Revealing the deep meaning*. New York: Routledge.

Lewin, R. (Ed.). (2009). *Handbook of practice and research in study abroad: Higher education and the quest for global citizenship*. New York: Routledge.

Lindsay, R., Karns, M., & Myatt, K. (2010). *Culturally proficient education: An asset-based response to conditions of poverty*. Thousand Oaks, CA: SAGE/Corwin

Nuri-Robins, K., Lindsey, R, Lindsey, D., & Terrell, R. (2006). *Culturally proficient instruction: A guide for people who teach* (2nd. ed.) Thousand Oaks, CA: Corwin.

Nuri-Robins, K., Lindsey, R, Lindsey, D., & Terrell, R. (2009). *Culturally proficient instruction: A manual for school leaders* (3<sup>rd</sup>. ed.). Thousand Oaks, CA: Corwin.

Peterson, B (2004). *Cultural intelligence: A guide to working with people from other cultures*. Yarmouth, ME: Intercultural Press

Williams, W. (2004). *Study abroad 101*. Kalamazoo, MI: Agapy Publishing



University System of Georgia  
Creating A More Educated Georgia

## New Core Curriculum

- Home
- Policy
- Core Implementation and Forms
- Frequently Asked Questions
- Committee
- Timeline
- Documents
- Workshops
- Listserv
- Contact Us
- Archive

## Core Curriculum Course Proposal Form

Note: Refer to the following information on the Board of Regents web site: [Core Curriculum](#); Guidelines: [Areas A-F](#); [Goals A-E and Goals I-III](#); and [Common Course Prefixes, Numbers, and Descriptions](#).

**NOTE:** You cannot start the form and save it – If you exit this web page before submitting, all data will be lost. Please have all required information ready prior to beginning.

### Submit Proposal To

Select who should receive this course proposal submission *(required)*

NOTE: Courses that have not gone through the institutional review process must do so and then be reviewed by the appropriate Academic Advisory Council *before* submission to the Council on General Education.

- Regents Academic Advisory Committee *(for core area(s) selected in #4 below)*
- System Council on General Education

### Institutional Information

#### 1. Institution *(required)*

#### 2. This is a proposal for *(select one)*

- A new course
- A change in an existing course (If this is a change, please provide information on the current course, complete information on the new course, and a rationale for the change.)
- Placement of an existing Area F course into the Core Curriculum
- Placement of an existing course other than from Area F into the Core Curriculum

#### 3. Course approval by institution – *required*

Attach documentation (in PDF format) that this course been reviewed and approved by the institution's appropriate campus committees that oversee the core curriculum.

Approval date:

Upload institution approval document (PDF format)

File names should include an appropriate extension (e.g.: *somefile.pdf*)

#### 4. This course is requested to satisfy Core Area(s) *(select all that apply)*

- Area A (English, Mathematics)
- Area B (Institutional Options)
- Area C (Humanities, Fine Arts, Ethics)
- Area D (Natural Sciences, Mathematics, Technology)
  - If Area D, select appropriate major(s):
  - math/science majors
  - health professions majors
  - non-math/science/health professions majors
- Area E (Social Sciences)
- Area F (Lower division major requirements)

**Course Information** *\*required fields*

5. Course Subject \*

Biology

6. Course Prefix and Number \*

BIOL 1103

7. Course Title \*

Concepts of Biology

8. Lecture Hours-Laboratory Hours-Credit Hours \*

3-3-4

9. Learning Support Prerequisites \*

none

10. Other Prerequisites \* (enter "none" if not applicable)

Eligibility for ENGL 1101

11. Course Co-requisites \* (enter "none" if not applicable)

none

12. The institution has reviewed the list of common course prefixes, numbers and descriptions, and this course is in compliance. \* [ [Academic Affairs Handbook, section 2.4.10](#) ]

Yes  No

Comment (Additional information about your review of course names/numbers)

13. Provide a catalog description of the course \*

May include topics such as evolution, ecology and the environment, genetics and heredity, diversity of life, cells and cellular energy, biomolecules, and the scientific process. (Credit in this non-majors course may not be applied to the Area F requirement in biology. Course not intended for science majors or clinical health majors).

14. Attach a Syllabus \* (generic, rather than one from a specific instructor) or a Common Course Outline with detailed information regarding the content of the course (and laboratory, if applicable), required reading, grading requirements, course objectives, and learning outcomes and assessment.

Upload Syllabus document

File names should include an appropriate extension (e.g., .pdf .doc)

Browse...

15. Explain how this specific course fits within the context of the institution's mission and general education program and advances the University System and the institution's general education learning outcomes. \*

If this is a course proposal for Area B, explain how the course addresses the institution's philosophy, goals, and objectives for courses offered in Area B. Also note that courses specific to the major, skills-based courses and orientation courses are not appropriate for Area B of the Core.

Currently the university curriculum offers BIOL 1107 'Principles of Biology I,' a course that is open to both biology majors and non-majors. Due to the mixed population of students, BIOL 1107 covers biological topics in a generalized way. This curriculum is hindering the biology major, a student who requires biological information that is more focused, and detailed. The Department of Biology at Armstrong has recently decided to create a new lab course, strictly for non-majors, while maintaining BIOL 1107 for biology majors and

16. Goals A-E \*

Indicate the approved institutional Core Area learning outcome that this course supports (e.g., The course is proposed in support of Learning Goal A1 Communication Outcomes and the learning outcome is: *Students have the ability to adapt communication to circumstances and audience*).

Goal D: Natural Sciences, Mathematics, and Technology. Students have the ability to understand the physical universe and science's relationship to it. Students have the ability to understand the changing nature of science.

**Goals I-III**

17. Does this course fulfill an overlay requirement for Learning Goal I - US Perspectives in the institution's General Education Program?

No  Yes

If "Yes," What is the proposed or approved learning outcome?  
Explain how the course fulfills this goal:

[Empty text box for explanation]

18. Does this course fulfill an overlay requirement for Learning Goal II - Global Perspectives in the Institution's General Education Program?

No  Yes

If "Yes," What is the proposed or approved learning outcome?  
Explain how the course fulfills this goal:

[Empty text box for explanation]

19. Does this course fulfill an overlay requirement for Learning Goal III - Critical Thinking in the Institution's General Education Program?

No  Yes

If "Yes," What is the proposed or approved learning outcome?  
Explain how the course fulfills this goal:

[Empty text box for explanation]

**Review Process**

**IMPORTANT!** You may skip questions 20 and 21 if you are submitting this form to a Regents Academic Advisory Committee. This information is *required* for submissions to the Council on General Education.

20. Regents Academic Advisory Committee Course Approval  
(required for submission to Council on General Education)



The course must be reviewed by the relevant Academic Advisory Committee

Approval date:

Upload Advisory committee review document

File names should include an appropriate extension (e.g., .pdf .doc)

21. Institutions may apply for permission to specify that students in one or more of their degree programs are required to take particular courses within Areas A-E. Applications will be considered first by the relevant Regents Academic Advisory Committees (the committee for the degree program and the advisory committee for course), then by the Administrative Committee on Academic Affairs (RACAA). (required for submission to Council on General Education)

Are you requesting a pre-requisite exception?

Yes  No

If Yes, please enter the Approval dates:

Regents Academic Advisory Committee Approval date:

Administrative Committee on Academic Affairs (RACAA) Approval date:

Upload RACAA approval document

File names should include an appropriate extension (e.g., .pdf .doc)

22. Is this a Resubmission? (select one)

Yes  No

23. Please provide the following contact information

VPAA Name:

VPAA Email Address:

VPAA Phone Number:

VPAA Mailing Address:

The upload of large files may take a few moments. Please Do Not click the Submit button more than once.

USG Home > Academic Affairs > New Core Curriculum

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**Mock Syllabus**  
**Concepts of Biology I & Laboratory (BIOL 1103 and 1103L)**  
**AASU, MWF Time/Classroom**  
**Fall 2012**

**Required text:**

Lecture: Biology For a Changing World by Shuster, 2012. 1st edition, W.H. Freeman.

Laboratory: Biology Department. Armstrong Atlantic State University. 2012. Concepts in Biology: Laboratory Manual, 1st edition, Cengage Learning.

**Course Purpose:**

The purpose of this course is to explore the basic principles of the science of life. By the end of the course, student should be able to recognize, understand and come to value the role biology plays in their lives and in a global context.

**Course Objectives:**

After completing this course, students will have met the following objectives:

1. To recognize science as a process for learning & understanding the world around us
2. To recognize the chemical building blocks of life & understand how they form cells
3. To recognize the basic function of cells & understand the vital cellular processes necessary to sustain life
4. To recognize the structure of DNA & understand its role in inheritance
5. To recognize the diversity of life & understand the role of the environment in shaping life (ecology)
6. To recognize the principles of evolution & how it continues to influence life

**Attendance:**

Attendance in lab is mandatory. Three unexcused absences will result in an 'F' in the course. During the semester, course information and assignments will be available to students on VISTA. If you do not know how to access VISTA, please contact the office of Computer Information Services for help.

**Portable Electronics:**

Portable electronics like cell phones and music players are to be powered off during all scheduled meeting times. Failure to observe this policy may result in being dismissed from class or having portable electronics being confiscated until the end of class. Laptop computers, calculators, and other tools with obvious educational advantages may be used as long as they do not distract you, distract those around you, or disrupt lab. During quizzes, practicals, or exams, the use of portable electronics is STRICTLY PROHIBITED. At such times, portable electronics must be stored where they are not visible or accessible. Any evidence of portable electronics use during quizzes or practical exams will AUTOMATICALLY result in a grade of zero for that examination. Additional consequences may be pursued through Armstrong Atlantic State University policies on academic integrity.

**Copyright:**

The instructor retains ownership of all lectures and laboratories at all times. All original content including, but not limited to, presentations, handouts, quizzes or practical exams, and all electronic documents are the property of the instructor. At no time may course content be



copied, retransmitted, broadcast, or distributed without the written consent of the instructor. Failure to respect content ownership will be treated as a violation of the Honor Code and Code of Conduct (please refer to academic integrity policy).

**Academic Integrity:**

You are expected to uphold all Armstrong Atlantic State University policies on academic integrity. Please read the Honor Code and Code of Conduct section of the Undergraduate Catalog. Any violation of these policies will not be tolerated. This includes cheating, plagiarism, profanity, harassment, or violence. Consequences may include failing the course. In general, all assignments should be completed individually. If a specific assignment requires collaboration with another student or group of students, you will be instructed accordingly. To be safe, assume that all written assignments are to be completed individually. If you are unsure, please consult your instructor.

**Grading:**

To do well in this course, a student must prove that they know the material by performing well on quizzes, lecture exams, a final exam, lab practical exams and a presentation. Make-ups for missed quizzes will require documented medical emergencies involving the student or a member of the student's immediate family. Students who will be traveling off-campus during the semester for a school-related purpose (i.e. athletics, choir, etc.) must submit a schedule with conflicting test dates highlighted to the professor during the first week of class. These are the only circumstances that warrant a make-up exam or quiz.

**1. Quizzes (5%)**

Quizzes will be taken every Friday during the first 10 minutes of class. Each quiz will cover class and outside reading material covered since the preceding quiz. The quiz grades will comprise 5% of the final grade.

**2. Written Exams (45%)**

There will be three examinations, each covering approximately one fourth of the course material. Each exam will require students to understand the major concepts covered in class as well as outside readings. Exams will comprise a total of 45% of the final grade (15% + 15% + 15% = 45%).

**3. Cumulative Final Exam (20%)**

A cumulative final will include questions that test a student's ability to synthesize all major topics cover in the course. The final exam will comprise 20% of the final grade.

**4. Laboratory (30%)**

Lab will contribute 30% to the overall BIOL 1103 course grade. A student must earn 60% or above in lab to pass the BIOL 1103 course. If a student fails lab, then they fail the overall course. Quizzes will be given during the first 10 minutes of lab every week. Quizzes cover information regarding lab for that week, so students are expected to read the lab for that week before coming to lab. Quizzes will make up 5% of a student's overall lab grade. Two practical exams will be given during the semester, one at midterm and one at the end of the semester. Each practical exam will test a student's 'hands on' knowledge of lab skills and concepts. Each practical is worth 5% for a total of 10% of a student's overall lab grade. A presentation of experimental results from group projects will be given by each lab group. The group presentation will be worth 5% of a student's overall lab grade.

Grading Scale for BIOL 1103				
<i>Grade</i>	<i>Score (%)</i>		<i>Grade</i>	<i>Score (%)</i>
<b>A</b>	100-90.0		<b>D</b>	69.9-60.0
<b>B</b>	89.9-80.0		<b>F</b>	59.9 or less
<b>C</b>	79.9-70.0			

**Contact Information**

Instructor

Office: Science Center room XXXX

Phone: 912.344.XXXX

Email: instructor@armstrong.edu

Office hours: Days/times

*Email or verbal communication by the instructor to students carries the same weight as information on this syllabus*

**BIOL 1103 Lecture Schedule** (*schedule & topics are subject to change*)

Week	Date	Topic	Reading
1		Course introduction & syllabus	--
		Process of science	Ch. 1
		Chemistry & Molecules of Life	Ch. 2
2		Chemistry & Molecules of Life	Ch. 2
		Cell Structure & Function	Ch. 3
		Cell Structure & Function	Ch. 3
3		Nutrition, Metabolism & Enzymes	Ch. 4
		Nutrition, Metabolism & Enzymes	Ch. 4
		Nutrition, Metabolism & Enzymes	Ch. 4
4		<i>Labor Day (no class)</i>	--
		Energy Flow & Photosynthesis	Ch. 5
		Energy Flow & Photosynthesis	Ch. 5
5		Energy Flow & Photosynthesis	Ch. 5
		Cellular Respiration	Ch. 6
		Cellular Respiration	Ch. 6
6		Cellular Respiration	Ch. 6
		<b>Exam I (14 lectures)</b>	--
		DNA structure & function	Ch. 7
7		DNA structure & function	Ch. 7
		Cell division & mitosis	Ch. 9
		Cell division & mitosis	Ch. 9
8		Mutations & Cancer	Ch. 10
		Mutations & Cancer	Ch. 10
		Inheritance & Meiosis	Ch. 11
9		Inheritance & Meiosis	Ch. 11
		<i>Fall Break (no class)</i>	--
		Stem Cells & Differentiation	Ch. 13
10		Stem Cells & Differentiation	Ch. 13
		Natural Selection & Adaptation	Ch. 14
		Natural Selection & Adaptation	Ch. 14
11		Evidence & Human Evolution	Ch. 16 & 20
		Evidence & Human Evolution	Ch. 16 & 20
		<b>Exam II (14 lectures)</b>	--
12		Life on Earth	Ch. 17
		Diversity of Life	Ch. 18 & 19
		Diversity of Life	Ch. 18 & 19
13		Diversity of Life	Ch. 18 & 19
		Population Ecology	Ch. 21
		Population Ecology	Ch. 21
14		Community Ecology	Ch. 22
		Community Ecology	Ch. 22
		Ecosystem Ecology	Ch. 23
15		Ecosystem Ecology	Ch. 23
		<i>Thanksgiving break (no class)</i>	--
		<i>Thanksgiving break (no class)</i>	--
16		Sustainability	Ch. 24
		Sustainability	Ch. 24
		Sustainability	Ch. 24
17		<b>Exam III (13 lectures)</b>	--
	TBA	<b>Final Exam</b>	--

**BIOL 1103 Lab schedule** (*schedule & topics are subject to change*)

<b>Week</b>	<b>Topic</b>	<b>Readings</b>
1	Introduction, Lab safety and Microscopy lab	Lab 1
2	Scientific process & Experimental Design lab (begin)	Lab 2 & 3
3	Biomolecules lab	Labs 4
4	<i>*No labs this week (Labor Day)</i>	--
5	Cell structure & Function lab	Lab 5
6	Photosynthesis lab	Lab 6
7	<b>PRACTICAL EXAM I</b>	--
8	DNA & Heredity lab	Lab 7
9	<i>*No labs this week (Fall Break)</i>	--
10	Mitosis & Meiosis lab	Lab 8 & 9
11	Diversity of Life lab	Lab 10
12	Ecology lab	Lab 11
13	Experimental Design lab (complete)	Lab 3
14	Group presentations of experimental results	--
15	<i>*No labs this week (Thanksgiving Break)</i>	--
16	<b>PRACTICAL EXAM II</b>	--
17	<i>*No lab</i>	--