

Armstrong

MEMORANDUM

To: University Curriculum Committee
From: Phyllis Fulton
Catalog Editor and Committee Secretary
Date: October 29, 2014
Re: Agenda – November 5, 2014

The University Curriculum Committee will meet at 3:00 p.m. on Wednesday, November 5 in University Hall 282. **Note: Items from the French eMajor remanded by the Faculty Senate will be considered from 3:00-3:15. Consideration of the remanded Gender Studies item and all other items will begin at 3:15.**

A G E N D A

CALL TO ORDER

David Lake

APPROVAL OF MINUTES – October 1, 2014

ITEMS REMANDED BY FACULTY SENATE (See UCC Attachment 1)

Submitted from Languages, Literature, and Philosophy (French eMajor program):

The following item was remanded in its entirety by the Faculty Senate.

29. Create the following course:

ESOL 4010 Applied Linguistics for ESOL Teachers

3-0-3

A study of the nature, structure, and diversity of language, emphasizing the phonological, morphological, syntactic, and semantic patterns of English in comparison and contrast with features of other selected languages. Prospective teachers will explore the principles of linguistic systems and major theorists and schools of linguistic thought. Language acquisition theories as related to language development and learning and their implications for instruction will also be examined within the cultural framework of working with communities of non-native English speakers.

Rationale: The creation of this course permits the department to offer courses required for an e-major.

Effective Term: Fall 2015

CURCAT:

Major Department: Languages, Literature, and Philosophy

Can Course be repeated for additional credit? NO

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

The Faculty Senate approved the following item with the exception of the sentences highlighted in green. Those sentences were remanded.

30. Create the following program of study for the B.A. Degree in French:

World Languages and Cultures – eMajor Description (For Information Purposes Only, Not for Catalog Entry)

The tracks in World Languages and Cultures offer students the opportunity to combine two or more world languages in a program of study that will impart the basic knowledge necessary to participate in international and intercultural settings. The track emphasizes knowledge of modern foreign cultures and enables students to focus on one modern language while achieving speaking facility in one or two others. These tracks are foundational to advanced studies in Humanities disciplines such as modern Languages, History, Art History, Philosophy, or Political Science. When combined with business courses and/or the Certificate in Spanish for Professionals, these degrees can open up international corporate and medical services opportunities.

Majors in World Languages and Cultures may find employment in business, government, education, media, travel and social services depending upon their skills and experiences. Majors can seek out employment opportunities in which language skills are required in the workplace. Such positions include translating, interpreting, the travel industry (airlines, international hotel chains, etc.), and teaching foreign languages within a corporate context. World Languages and Cultures majors also pursue careers in social services capacities.

Additionally, completion of the Certificate in Teaching English as a Second Language as part of these degrees will prepare majors to teach English to speakers of other languages throughout the world. Internships, practicum placements, and study abroad are highly recommended as study components in this major.

REQUIREMENTS FOR THE B.A. DEGREE IN FRENCH: WORLD LANGUAGES AND CULTURES

Georgia Core curriculum.....60 hours

Core Areas A-E (see Core Curriculum) 42 hours

Core Area F 18 hours

FREN 1001 and 1002 (as needed)..... 0-6 hours

FREN 2001 and 2002 (as needed)..... 0-6 hours

SPAN or GRMN or LATN 1001 and 1002 or other foreign language (as needed).....0-6 hours
 SPAN or GRMN or LATN 2001 AND 2002 or other foreign language (as needed)...0-6 hours
 Other Electives from Area C and E Courses 0-18 hours

Students must achieve a grade of "C" or better in all courses taken in Area F.

Senior- College Curriculum..... 60 hours

Upper-level courses in French and Linguistics 33 hours

FREN 2010 3 hours
 FREN 3010 3 hours
 FREN 3150 or 3160 3 hours
 FREN 3201 3 hours
 FREN 3250 or 3260 3 hours
 FREN 4010 3 hours
 FREN 3300 3 hours

Electives:

FREN 3000/4000-level courses 9 hours

Supporting course: ESOL 4010 3 hours

Related Electives 27 hours

A second or third foreign language may be taken in the major as needed under the Elective hours.

For the degree, a minimum of 39 hours in total must be taken at the 3000/4000 level.

Suggested Elective Sequences: Minor in Spanish or German, **Certificate in Teaching English to Speakers of other Languages**, Certificate in Spanish for Professionals.

Total hours required for the degree.....120 semester hours

Rationale: See item 28 below

Effective Term: Spring 2015

Submitted by the Gender Studies program:

The Faculty Senate remanded the following item because some of the course names had not been updated. The catalog editor has corrected those omissions (highlighted in green).

7. Modify the following program of study:

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN GENDER
 AND WOMEN'S STUDIES**

A. General Requirements

Core Areas A, B, C, D,I, and E42 hours

Area F18 hours

~~GWSTGNST~~ 1101 Introduction to Gender ~~and Women's~~ Studies

~~GWSTGNST~~ 2101 **Ethics, Values, and Gender and Ethics**

~~GWSTGNST~~ 2200 Gender in Global Contexts

Foreign language 1002 (3 credit hours)

Foreign language 2001 (3 credit hours)

ENGL 2100 Literature and Humanities

Physical Education3 hours

First-Year Seminar 1 hour

B. Major Field Courses

Minimum of 39 hours at 3000 level or above

Required Courses in the Major Field15 hours

~~GWST~~GNST 5700U Perspectives in Feminist Theory

~~GWST~~GNST 4900 Gender Studies Junior/Senior Seminar

~~GWST~~GNST/SOCI 5600U Sociology of Gender

FILM 5040U Women and Film

HIST 3740 History of American Women

Additional Major Field Courses

List A: Arts and Humanities (3000 or above)6 hours

Choose from:

ENGL 5340U Literature by Women

ENGL 5355U Black Women Writers

FILM 5025U Popular Culture Theory and Criticism

~~GWST~~GNST 4700 Gender ~~and Women's~~ Studies Internship

~~GWST~~GNST 5000U Topics in Gender ~~and Women's~~ Studies

~~GWST~~GNST 5500U Topics in Women's Leadership

HIST 5660U Topics in the History of Women and Gender in America

HIST 5670U Topics in the History of Women and Gender in Europe

List B: Social/Behavioral Sciences and Health Professions (3000 or above) 6 hours

Choose from:

~~GWST~~GNST 4700 Gender ~~and Women's~~ Studies Internship

NURS 3355 Women's Health

COMM 5500U Communication between the Genders

PSYC 3100 Human Sexuality

PUBH 5570U Women and Minority Health Issues

PUBH 5575U Health and Sexuality Education

SOCI 3150 Sociology of the Family

SOCI 3300 Social Stratification

SOCI/~~GWST~~GNST 3510 Gender, Violence and Society

SOCI 3800 Sociology of Sexuality

C. Minor 15-18 hours

A university-approved minor in another area of study.

D. Electives 15-18 hours

Total Semester Hours

124 hours

E. Exit Exam

Effective Term: Fall 2015

ITEMS

I. College of Education

A. Adolescent and Adult Education

1. Create the following courses:

PEBC 1300 Walk, Jog, Run

0-1-1

Prerequisite: None

Description: The principles of cardio respiratory fitness associated with walking, jogging, and running will be taught in this course along with the principles of flexibility fitness associated with static and dynamic stretching for the prevention of walking and jogging injuries. This course will provide students with basic cardio respiratory skills to develop an effective beginning walking, jogging or running program. This course is open to all levels of fitness.

Rationale: A brief survey in the spring 2014 was conducted in flex term activity classes, the results indicate that a Walk, Jog, Run training course would be popular. Similarly sized universities along with universities that are larger and smaller than Armstrong offer similar courses. The course will be offered in both 7 week sessions.

Effective Term: Fall 2015

CURCAT:

Major Department: Adolescent and Adult Education

Can course be repeated for additional credit? No

Maximum number of credit hours: 1

Grading Mode: Normal

Instruction Type: Lab

Course Equivalent: None

2. PEBC 1050 Intermediate Weight Training

0-1-1

Prerequisite: PEBC 1000 Beginning Weight Training or Instructor Approval

Description: Principles of muscular strength and muscular endurance fitness associated with resistance training. This course will provide students with the skills necessary to develop an effective intermediate weight training program.

Rationale: A brief survey in the spring 2014 was conducted in flex term activity classes, the results indicate that an Intermediate Weight Training course would be popular. Similarly sized universities along with universities that are larger and smaller than Armstrong offer similar courses. The course will be used in the second 7 week session.

Effective Term: Spring 2015

CURCAT:

Major Department: Adolescent and Adult Education

Can course be repeated for additional credit? No

Maximum number of credit hours: 1

Grading Mode: Normal

Instruction Type: Lab

Course Equivalent: None

B. Childhood and Exceptional Student Education

1. Modify the following course

ECUG 4300 Language Arts Assessment and Modification

1-V-3

Prerequisite: Admission to Candidacy in the Department of Childhood and Exceptional Student Education, **ECUG 3071, ECUG 3072**

Corequisite: ~~ECUG 4750~~ **ECUG 3750**

Rationale: The corequisite is no longer required. ECUG 3071 and 3072 are required as prerequisites due to course rotation changes. ECUG 3750 is required as corequisite due to course rotation changes.

Effective Term: Fall 2015

2. Modify the following course

ECUG 4750 INTERNSHIP II - STUDENT TEACHING

0-V-12

Prerequisites: Admission to Candidacy in the Department of Childhood and Exceptional Student Education and completion of all other coursework.

Corequisite: ~~ECUG 4300~~

Rationale: The corequisite is no longer required.

Effective Term: Fall 2015

3. Modify the following Program of Study:

Bachelor of Science in Early Childhood Education

Track 2: Child and Family Studies

C. Related Field Courses12 hours

SOCI 1101 Introductory Sociology (if not taken in Core Area E)

Approved electives (9 credit hours from the following list):

COMM 3050 Interpersonal and Small Group Communication

CSDS 4050 Intercultural Communication

HSCP 2000 Ethical Theories/Moral Issues in Health

HSCP 4010 Health and Human Development

PEHM 3090 Basic Games, Dance, and Rhythmic Activities

PSYC 2950 Lifespan Developmental Psychology

PSYC 1200 Drugs and Behavior

PUBH 5570U Women and Minority Health Issues

SOCI 3200 Racial and Ethnic Minorities
 SOCI 3500 Social Problems
 THEA 3030 Creative Dramatics and Children's Theatre

Rationale: Listing the electives allows the automated degree audit system for advising to program these choices and work well. The list clearly delineates what is approved.

Effective Term: Fall 2015

II. College of Health Professions

A. Diagnostic and Therapeutic Sciences

Overview and Rationale: Due to changes in the scope of professional practice within specific disciplines, the movement toward interprofessional practice, the creation of the interprofessional Department of Diagnostic and Therapeutic Sciences, and to make the curricula more efficient and transparent, Radiologic Sciences has completely redesigned the curricula for the five entry-level tracks. This involves deleting all of the RADS prefix courses from the Programs of Study with one exception. Each of the five tracks will have a distinct prefix, there is a prefix (RDSC) for common Radiologic Sciences courses and a prefix (DDTS) for common Department of Diagnostic and Therapeutic Sciences courses. With the exception of the first item below, all other changes are new courses. (Note: RADS courses are not being deleted from the Bridge and Special Options curricula in the degree.) New courses are subdivided by common courses then each respective track.

DDTS/RDSC 'Common' Courses

1. Delete the following course:

RADS 3060 Principles of Image Formation and Evaluation 2-2-3

Rationale: This course is being replaced with new course RDSC 3060.

Effective Term: Fall 2015

2. Create the following course:

RDSC 3060 Principles of Image Formation and Evaluation 2-2-2
Open only to majors in radiologic sciences. Factors controlling radiographic image production and image quality. Topics include geometric and photographic properties, image quality evaluation, and image display.

Rationale: This course will be a Common (interprofessional) course. Thus the change in the course prefix. It will replace RADS 3060. The content related to the digital process has been moved to another course and the radiographic imaging process has been increased.

Effective date: Fall 2015

CURCAT:**Major Department: Diagnostic and Therapeutic Sciences****Can course be repeated for additional credit? No****Maximum number of credit hours: 2****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: RADS 3060****3. Create the following course:****DDTS 2001 Introduction to Diagnostic and Therapeutic Sciences 3-1-3**

Prerequisite: ENGL 1102

An introduction to the disciplines in DDTS: Medical Laboratory Sciences, Respiratory Therapy, and Radiologic Sciences. Includes an introduction to medical terminology.

Rationale: New Course

Effective date: Fall 2015**CURCAT****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 3****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: None****4. Create the following course:****DDTS 3001 Patient Care and Interaction 3-2-3**

Prerequisite: Open only to majors in Diagnostic and Therapeutic Sciences.

Physical and psychological needs of the family and patient, patient transfer techniques, interaction with the terminally ill, vital signs, administration of injections and pharmaceuticals, IV and tube maintenance, urinary catheterization, acquisition and interpretation of EKG's, emergency medical situations, infectious disease processes and universal precautions.

Rationale: New Course

Effective Term: Fall 2015**CURCAT****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 3****Grading Mode: Normal**

Instruction Type: Lecture
Course Equivalent: RADS 3050

- 5. Create the following course:**
DDTS 4010 Research Methodologies **3-0-3**

Prerequisite: HLPR 2000. Open only to majors in Diagnostic and Therapeutic Sciences or Permission of Instructor

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

Rationale: New Course

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

- 6. Create the following course:**
DDTS 4020 Management and Leadership **3-2-3**

Prerequisite: Open only to majors in Diagnostic and Therapeutic Sciences or Permission of Instructor.

This course introduces leadership concepts, focusing on the contemporary theories of leadership and management, health care financing, and total quality concepts. A course component will include a leadership practicum.

Rationale: New course

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 3

Grading Mode: Normal

Instruction Type: Lecture/Lab

Course Equivalent: None

- 7. Create the following course:**
RDSC 3001 Radiologic Sciences I **5-0-5**

Prerequisite: Open only to majors in radiologic sciences.

An introduction to professional organizations, specialties, accreditation, certification, licensure, professional development, ethics, and legal issues. Mechanics, electromagnetic physics, nuclear physics, and x-ray production as they relate to the medical setting. Includes introduction to digital imaging processes, fluoroscopy, radiologic physics and nuclear decay.

Rationale: New Course

Effective term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 5

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

8. Create the following course:

RDSC 3002 Radiologic Sciences II

6-0-6

Prerequisite: RDSC 3001

Biological, chemical, and physical effects of radiation and radiation measurement and safety. A survey of human pathology including cancer, vascular diseases, trauma, anomalies and other disease processes as demonstrated by radiologic imaging. Includes 2D and 3D cross sectional images of Ultrasound, CT, MRI, Nuclear Medicine and Radiography.

Rationale: New Course

Effective term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

9. Create the following course:

RDSC 4100 Advanced Imaging Modalities

3-0-3

Prerequisite: RADR 4101 or CVIS 4101 or NUCM 4101 or RTHR 4101 or SONO 4101

Corequisite: RADR 4102 or CVIS 4102 or NUCM 4102 or RTHR 4102 or SONO 4102

Instrumentation, operation, and clinical uses of MRI or CT or Mammography

Rationale: New Course

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? Yes

Maximum number of credit hours: 9

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

Cardiovascular/Interventional Sciences Courses

10. Create the following course:

CVIS 3001 Cardiovascular Interventional Sciences

6-4-6

Prerequisite: Open to majors in Radiologic Sciences, Cardiovascular/Interventional Science track.

Introduction to field of cardiovascular interventional science, imaging and equipment. This includes diagnostic and treatment methods, application of specific equipment and devices, contrast media, and technology utilized in the diagnosis and treatment of cardiovascular disease.

Rationale: New Course

Effective Term: Fall 2015

CURCAT:

Major Department: Department of Diagnostic and therapeutic Sciences

Can Course be repeated for additional credit? No

Maximum number of credit hours: 6

Grading model: Normal

Instruction type: Lecture/Lab

Course Equivalent: None

11. Create the following course:

CVIS 3002 Cardiovascular Interventional Sciences II

6-3-6

Prerequisite: CVIS 3001

Caring for the invasive, percutaneous, cardiovascular patient. Includes monitoring essentials and managing medical emergencies associated with the cardiovascular procedures.

Rationale: New Course

Effective Term: Fall 2015

CURCAT:**Major Department: Diagnostic and Therapeutic Sciences****Can course be repeated for extra credit? No****Maximum Number of Credit Hours: 6****Grading Mode: Normal****Instruction Type: Lecture/Lab****Course Equivalent: None****12. Create the following course:****CVIS 3003 Physiologic Monitoring and Recording****4-0-4**

Prerequisite: CVIS 3002

The advanced identification and interpretation of ECGs and hemodynamics and cardiac function.

Rationale: New Course

Effective: Fall 2015**CURCAT:****Major Department: Diagnostic and Therapeutic Sciences****Can course be repeated for extra credit? No****Maximum Number of Credit Hours: 4****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: None****13. Create the following course:****CVIS 3100 Introduction to Cardiovascular Interventional Clinical
Education****1-V-1**

Prerequisite: CVIS 3001

Corequisite: CVIS 3002

Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

Rationale: New Course

Effective: Fall 2015**CURCAT:****Major Department: Diagnostic and Therapeutic Sciences****Can course be repeated for extra credit? No****Maximum number of Credit Hours: 1****Grading Mode: Satisfactory/Unsatisfactory****Instruction Type: Lecture/Lab****Course Equivalent: None**

14. Create the following course:

CVIS 4101 Cardiovascular Interventional Clinical Education I 0-V-5
 Prerequisite: CVIS 3100, DDTS 3001
 Supervised clinical experience in cardiovascular/interventional procedures.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences
Can course be repeated for extra credit? No
Maximum Number of Credit Hours: 5
Grading Mode: Normal
Instruction Type: Practicum
Course Equivalent: None

15. Create the following course:

CVIS 4102 Cardiovascular Interventional Clinical Education II 0-V-8
 Prerequisite: CVIS 4101
 Supervised clinical experience in cardiovascular/interventional procedures.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences
Can course be repeated for extra credit? No
Maximum Number of Credit Hours: 8
Grading Mode: Normal
Instruction Type: Practicum
Course Equivalent: None

16. Create the following course

CVIS 4103 Cardiovascular Interventional Clinical Education III 0-V-9
 Prerequisite: CVIS 4102
 Supervised clinical experience in cardiovascular/interventional procedures.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum Number of Credit Hours: 9

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

17. Create the following course

CVIS 4200 Cardiovascular Interventional Science Synthesis

3-0-3

Prerequisite: CVIS 3003 and CVIS 4102

Discussion of advanced theoretical concepts in cardiovascular interventional technology as they relate to practice.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

Nuclear Medicine Courses

18. Create the following course:

NUCM 3001 Nuclear Medicine I

5-2-6

Prerequisite: Open to majors in Radiologic Sciences, Nuclear Medicine Track

Introduction to the theory, principals and, procedures of nuclear medicine. Basic principles involved in imaging, diagnoses, and therapies are emphasized.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Maximum number of Credit Hours: 6

Can course be repeated for extra credit? No

Grading Mode: Normal

Instruction Type: Lecture/Lab

Course Equivalent: None

19. Create the following course:**NUCM 3002 Nuclear Medicine II****5-2-6**

Prerequisite: NUCM 3001

Corequisite: RDSC 3002

Principles of radionuclide production and radiation detection. Topics include preparation and use of radiopharmaceuticals, decay modes, half-life, radiation interactions, radiation equipment and instrumentation applied to nuclear medicine imaging.

Rationale: New Course

Effective: Fall 2015**CURCAT:****Major Department: Diagnostic and Therapeutic Sciences****Can course be repeated for extra credit? No****Maximum number of Credit Hours: 6****Grading Mode: Normal****Instruction Type: Lecture/Lab****Course Equivalent: None****20. Create the following course:****NUCM 3003 Nuclear Medicine III****3-0-3**

Prerequisite: NUCM 3002

Advanced Nuclear Medicine Imaging. Topics include the principles of Positron Emission Tomography, radiopharmaceutical production and instrumentation of PET.

Rationale: New Course

Effective: Fall 2015**CURCAT:****Major Department: Diagnostic and Therapeutic Sciences****Can course be repeated for extra credit? No****Maximum number of Credit Hours: 3****Grading Mode: Normal****Instruction Type: Lecture****Course Equivalent: None****21. Create the following course:****NUCM 3100 Introduction to Nuclear Medicine Clinical Education****1-V-1**

Prerequisite: NUCM 3001

Corequisite: NUCM 3002

Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum number of Credit Hours: 1

Grading Mode: Satisfactory/Unsatisfactory

Instruction Type: Lecture/Lab

Course Equivalent: None

22. Create the following course:

NUCM 4101 Nuclear Medicine Clinical Education I

0-V-5

Prerequisite: NUCM 3100, DDTS 3001

Supervised clinical practice in performing nuclear medicine procedures.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum number of Credit Hours: 5

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

23. Create the following course:

NUCM 4102 Nuclear Medicine Clinical Education II

0-V-6

Prerequisite: NUCM 4101

Supervised clinical practice in performing nuclear medicine procedures.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum number of Credit Hours: 6

Grading Mode: Normal
Instruction Type: Practicum
Course Equivalent: None

24. Create the following course:

NUCM 4103 Nuclear Medicine Clinical Education III **0-V-9**

Prerequisite: NUCM 4102

Supervised clinical practice in performing nuclear medicine and CT procedures.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum number of Credit Hours: 9

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

25. Create the following course:

NUCM 4200 Nuclear Medicine Synthesis **3-0-3**

Prerequisite: NUCM 3003 & NUCM 4102

A discussion of general and advanced theoretical concepts of Nuclear Medicine

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can course be repeated for extra credit? No

Maximum number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

Radiography Courses

26. Create the following course:

RADR 3001 Radiography I **6-2-6**

Prerequisite: Open to majors in Radiologic Sciences, Radiography Track

Corequisite: RDSC 3001

Procedures involving the chest, abdomen, bony thorax, and visceral organs requiring the use of contrast media, including spatial relationships, and pathology, equipment manipulation, and quality evaluation of radiographic examinations. Includes radiographic and fluoroscopy equipment overview, iodinated contrast media & interaction, and an introduction to trauma, surgical, & neonatal radiography.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Lecture/Lab

Course Equivalent: None

27. Create the following course:

RADR 3002 Radiography II

6-2-6

Prerequisite: RADR 3001

Corequisite: RDSC 3002

Procedures involving extremities, shoulder girdle, and pelvic girdle, including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations. Includes study of radiographic equipment and the physics of specialized imaging modalities and an introduction to computed tomography.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Lecture/Lab

Course Equivalent: None

28. Create the following course:

RADR 3003 Radiography III

6-3-6

Prerequisite: RADR 3002

Corequisite: RDSC 3002

Procedures involving vertebral column, reproductive organs and facial bones including spatial relationships, pathology, equipment manipulation, and quality evaluation of radiographic examinations. Includes equipment testing, analysis of

quality control data and quality assurance data, federal government guidelines and introduction to total quality management concepts and procedures.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Lecture/Lab

Course Equivalent: None

29 Create the following course:

RADR 3100 Introduction to Radiography Clinical Education

1-V-1

Prerequisite: RADR 3001

Corequisite: RADR 3002

Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 1

Grading Mode: Satisfactory/Unsatisfactory

Instruction Type: Lecture/Lab

Course Equivalent: None

30. Create the following course:

RADR 4101 Radiography Clinical Education I

0-V-5

Prerequisite: RADR 3100, DDTS 3001

Supervised clinical practice in performing radiographic procedures.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 5

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

31. Create the following course:

RADR 4102 Radiography Clinical Education II

0-V-3

Prerequisite: RADR 4101

Supervised clinical practice in performing radiographic procedures.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 3

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

32, Create the following course:

RADR 4103 Radiography Clinical Education III

0-V-(6-9)

Prerequisite: RADR 4102

Supervised clinical practice in performing radiographic procedures.

Rationale: New course.

Effective Term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 9

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

33. Create the following course:

RADR 4200 Radiography Synthesis

3-0-3

Prerequisite: RADR 3003 & RADR 4102

A discussion of general and advanced theoretical concepts of Radiography

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

Radiation Therapy Courses

-] 34. Create the following course:**
- RTHR 3001 Radiation Therapy I** **6-0-6**
- Prerequisite: Open to majors in Radiologic Sciences, Radiation Therapy Track
Corequisite: RDSC 3001
- An introduction to the history and practice of radiation therapy with an emphasis on patient care, radiation protection, treatment preparation, and treatment delivery associated with the study of neoplastic disease and treatment interventions.

Rationale: New Course

Effective term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

- 35. Create the following course:**
- RTHR 3002 Radiation Therapy II** **5-3-6**
- Prerequisite: RTHR 3001
Corequisite: RDSC 3002
- Radiation production, nuclear transformations, and interactions with matter including radiation detectors, instrumentation, and radiation safety. Includes radiation therapy equipment operation and utilization for simulation and treatment along with an examination of quality management principles used to ensure safe and efficient treatment delivery. Regulatory agencies, equipment safety, testing procedures, and importance of documentation are highlighted.

Rationale: New Course

Effective term: Fall 2015

CURCAT**Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 6****Grading Mode: Normal****Instruction Type: Lecture/lab****Course Equivalent: None****36. Create the following course:****RTHR 3003 Radiation Therapy III****3-1-3**

Prerequisite: RTHR 3002

A study of the principles used to plan and deliver radiation treatments. Dose absorption, dose and isodose distributions, contouring, hand calculations, brachytherapy and emerging technologies are included.

Rationale: New Course

Effective term: Fall 2015**CURCAT****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 3****Grading Mode: Normal****Instruction Type: Lecture/Lab****Course Equivalent: None****37. Create the following course:****RTHR 3100 Introduction to Radiation Therapy Clinical Education****1-V-1**

Prerequisite: RTHR 3001

Corequisite: RTHR 3002

Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

Rationale: New Course

Effective term: Fall 2015**CURCAT****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 1****Grading Mode: Satisfactory/Unsatisfactory****Instruction Type: Lecture/Lab****Course Equivalent: None**

38. Create the following course:**RTHR 4101 Radiation Therapy Clinical Education I****0-V-5**

Prerequisite: RTHR 3100, DDTS 3001

A supervised clinical experience in the application and delivery of radiation therapy.

Rationale: New Course

Effective term: Fall 2015**CURCAT****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 5****Grading Mode: Normal****Instruction Type: Practicum****Course Equivalent: None****39. Create the following course:****RTHR 4102 Radiation Therapy Clinical Education II****0-V-6**

Prerequisite: RTHR 4101

Supervised clinical experience in the application and delivery of radiation therapy.

Rationale: New Course

Effective term: Fall 2015**CURCAT****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 6****Grading Mode: Normal****Instruction Type: Practicum****Course Equivalent: None****40. Create the following course:****RTHR 4103 Radiation Therapy Clinical Education III****0-V-9**

Prerequisite: RTHR 4102

Capstone clinical education course in the application and delivery of radiation therapy.

Rationale: New Course

Effective term: Fall 2015**CURCAT**

Major Department: Diagnostic and Therapeutic Sciences
Can Course be repeated for Additional Credit? No
Maximum number of credit hours: 9
Grading Mode: Normal
Instruction Type: Practicum
Course Equivalent: None

41. Create the following course:

RTHR 4200 Radiation Therapy Synthesis **3-0-3**

Prerequisite: RTHR 3003 & RTHR 4102

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

Rationale: New Course

Effective term: Fall 2015

CURCAT

Major Department: Diagnostic and Therapeutic Sciences
Can Course be repeated for Additional Credit? No
Maximum number of credit hours: 3
Grading Mode: Normal
Instruction Type: Lecture
Course Equivalent: None

Sonography Courses

42. Create the following course:

SONO 3001 Sonographic Principles and Theory I **4-9-6**

Prerequisite: Open only to majors in Radiologic Sciences, Sonography Track

This course is the introduction to sonography specialties, sonographic instrumentation, propagation principles and interactions, the theoretical concepts and scanning techniques of adult and pediatric abdominal, gynecological, and obstetrical content and exam procedures, and the standards and practices related to diagnostic medical sonography.

Rationale: New course

Effective Term: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences
Can Course be repeated for Additional Credit? No
Maximum number of credit hours: 6
Grading Mode: Normal
Instruction Type: Lecture/Lab
Course Equivalent: None

43. Create the following course:**SONO 3002 Sonographic Principles and Theory II****4-3-5**

Prerequisite: SONO 3001

Corequisite: RDSC 3002

This course is a continuation of Sonographic Principles and Theory I. It includes advanced topics related to sonographic instrumentation, propagation principles and interactions. It also includes concepts and intermediate scanning techniques pertaining to invasive procedures, the adult and pediatric abdomen, small parts, obstetrics and gynecology.

Rationale: This is a new course.

Effective Term: Fall 2015**CURCAT:****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 5****Grading Mode: Normal****Instruction Type: Lecture/Lab****Course Equivalent: None****44. Create the following course:****SONO 3003 Sonographic Principles and Theory III****4-6-6**

Prerequisite: SONO 3002

This course is a continuation of Sonographic Principles and Theory II to include advanced concepts related to scanning techniques, invasive procedures, the adult and pediatric abdomen, small parts, obstetrics and gynecology and other sonography specialties.

Rationale: This is a new course.

Effective Term: Fall 2015**CURCAT:****Major Department: Diagnostic and Therapeutic Sciences****Can Course be repeated for Additional Credit? No****Maximum number of credit hours: 6****Grading Mode: Normal****Instruction Type: Lecture/Lab****Course Equivalent: None****45. Create the following course:****SONO 3100 Introduction to Sonography Clinical Education****1-V-1**

Prerequisite: SONO 3001

Corequisite: SONO 3002

Overview of the clinical setting, administrative structures, legal/compliance requirements, and required documentation.

Rationale: New Course

Effective: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic 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

46. Create the following course:

SONO 4101 Sonography Clinical Education I

0-V-6

Prerequisites: SONO 3100, DDTS 3001

Supervised clinical practice in performing Sonographic procedures.

Rationale: This is a new course.

Effective Term: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

47. Create the following course:

SONO 4102 Sonography Clinical Education II

0-V-6

Prerequisites: SONO 4101

Supervised clinical practice in performing Sonographic procedures.

Rationale: This is a new course.

Effective Term: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal
Instruction Type: Practicum
Course Equivalent: None

48. Create the following course:

SONO 4103 Sonography Clinical Education III

0-V-6

Prerequisites: SONO 4102

Supervised clinical practice in performing Sonographic procedures.

Rationale: This is a new course.

Effective Term: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 6

Grading Mode: Normal

Instruction Type: Practicum

Course Equivalent: None

49. Create the following course:

SONO 4200 Sonography Synthesis

3-5-3

Prerequisite: SONO 3003 & SONO 4102

A capstone course to include advanced concepts related to scanning techniques, invasive procedures, the adult and pediatric abdomen, small parts, obstetrics and gynecology and other sonography specialties.

Rationale: This is a new course.

Effective Term: Fall 2015

CURCAT:

Major Department: Diagnostic and Therapeutic Sciences

Can Course be repeated for Additional Credit? No

Maximum number of credit hours: 4

Grading Mode: Normal

Instruction Type: Lecture/Lab

Course Equivalent: None

50. Modify the following program of study:

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN RADIOLOGIC SCIENCES

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

(Nuclear Medicine students must complete a general chemistry course with lab)

(Notes: The following does not apply to Bridge or Special Options. Text in current catalog was changed to that below [UCC Sept. 3 minutes] so catalog is not accurate.)

Core Area F18 hours

BIOL 2081 Human Anatomy and Physiology I

BIOL 2082 Human Anatomy and Physiology II

~~HLPR 2000 Research in Health Professions~~

~~DDTS 2001 Intro to Diagnostic and Therapeutic Sciences 3~~

Guided Electives from the following list (3 4-credit hours)

~~RADS 2000 or RESP 2110~~

COMM 2280 (~~except for Sonography track~~), or a lower-level class (1000 or 2000 level) in MATH, CSCI, ITEC, BIOL, CHEM, PHYS, PHSC, ASTR, GEOL, or ISCI

One of the following:

PHSC 1211/1211L Physical Environment and Lab

PHYS 1111K Introductory Physics I

B. Major Field Courses (all tracks)

2024 Hours

~~RADS 3000 — Introduction to Radiological Sciences~~

~~RADS 3050 — Patient Care and Interaction~~

~~RADS 3080 — Professional Interactions~~

~~RADS 3200 — Imaging Pathology~~

~~RADS 3450 — Leadership in Healthcare~~

~~RADS 3451 — Leadership Practicum~~

~~RADS 4410 — Cross-Sectional Anatomy~~

~~RADS 4450 — Radiological Sciences Management~~

~~RADS 4800 — Research Methodologies in Radiologic Sciences~~

~~DDTS 3001 Patient Care and Interaction 3-2-3~~

~~DDTS 4010 Research Methodologies 3-0-3~~

~~DDTS 4020 Management and Leadership 3-2-3~~

~~HLPR 2000 Intro to Research in Health Professions 2-0-2~~

~~RDSC 3001 Radiologic Sciences I 5-0-5~~

~~RDSC 3002 Radiologic Sciences II 6-0-6~~

~~RDSC 3060 Princ of Image Formation and Evaluation 2-2-2~~

a. Radiography Track Major Courses

4642 Hours

~~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~~

~~RADS 3074 — Imaging and Radiation Procedures IV~~

~~RADS 3090 — Introduction to Radiation Physics~~

~~RADS 3112 — Introduction to Computed Tomography~~

~~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~~

~~RADS 4163 — Radiography Clinical Education III~~

~~RADS 4415 — Radiography Synthesis Seminar~~

~~RADS 4164 — Clinical Education IV~~

~~RADS 4420 — Senior Radiography Seminar~~

One of the following pairs:

~~RADS 4111 — Advanced Imaging in MRI~~

~~RADS 4171 — Magnetic Resonance Clinical Education~~

~~————— *OR* —————~~

~~RADS 4112 — Advanced Imaging in Computed Tomography~~

~~RADS 4172 — Computed Tomography Clinical Education~~

~~————— *OR* —————~~

~~RADS 4113 — Advanced Imaging in Mammography~~

~~RADS 4173 — Mammography Clinical Education~~

~~RADR 3001 Radiography I 6-2-6~~

~~RADR 3002 Radiography II 6-2-6~~

~~RADR 3003 Radiography III 6-3-6~~

~~RADR 3100 Introduction to Radiography Clinical Education .. 1-V-1~~

~~RADR 4101 Radiography Clinical Education I 0-V-5~~

~~RADR 4102 Radiography Clinical Education II 0-V-3~~

~~RADR 4103 Radiography Clinical Education III 0-V- 6-9~~

~~RADR 4200 Radiography Synthesis 3-0-3~~

~~RDSC 4100 Advanced Imaging Modalities 3-0-3~~

(Note: RDSC 4100 can be repeated for additional credit)

Total Semester Hours for Radiography Track

130 hours

b. Radiation Therapy Track Major Courses

4246 Hours

~~RADS 3060 Principles of Image Formation and Evaluation~~

~~RADS 3090 Introduction to Radiation Physics~~

~~RADS 3150 Radiobiology and Radiation Protection~~

~~RADS 3190 Principles of Radiation Therapy~~

~~RADS 3195 Radiation Therapy Procedures~~

~~RADS 3301 Radiation Therapy Clinical Education I~~

~~RADS 3302 Radiation Therapy Clinical Education II~~

~~RADS 3112 Introduction to Computed Tomography~~

~~RADS 4112 Advanced Imaging in Computed Tomography~~

~~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 4305 Radiation Therapy Clinical Education V~~

~~RADS 4307 Radiation Therapy Synthesis~~

~~RADS 4308 Radiation Therapy Seminar~~

~~RTHR 3001 Radiation Therapy I 6-0-6~~

RTHR 3002 Radiation Therapy II	5-3-6	
RTHR 3003 Radiation Therapy III	3-1-3	
RTHR 3100 Introduction to Radiation Therapy Clinical Education	1-V-1	
RTHR 4101 Radiation Therapy Clinical Education I	0-V-5	
RTHR 4102 Radiation Therapy Clinical Education II	0-V-6	
RTHR 4103 Radiation Therapy Clinical Education III	0-V-9	
RTHR 4200 Radiation Therapy Synthesis	3-0-3	
RDSC 4100 Advanced Imaging Modalities	3-0-3	
Total Semester Hours for Radiation Therapy Track	130 hours

c. Nuclear Medicine Major Courses

4246 hours

RADS 3090 Introduction to Radiation Physics		
RADS 3112 Introduction to Computed Tomography		
RADS 3150 Radiobiology and Radiation Protection		
RADS 3499 Foundations in Nuclear Medicine		
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 4512 CT in the Practice of Nuclear Medicine		
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		
RADS 4561 Nuclear Medicine Synthesis		
RADS 4562 Nuclear Medicine Seminar		
RADS 4570 Introduction to PET		
NUCM 3001 Nuclear Medicine I	5-2-6	
NUCM 3002 Nuclear Medicine II	5-2-6	
NUCM 3003 Nuclear Medicine III	3-0-3	
NUCM 3100 Introduction to Nuclear Medicine Clinic Education	1-V-1	
NUCM 4101 Nuclear Medicine Clinical Education I	0-V-5	
NUCM 4102 Nuclear Medicine Clinical Education II	0-V-6	
NUCM 4103 Nuclear Medicine Clinical Education III	0-V-9	
NUCM 4200 Nuclear Medicine Synthesis	3-0-3	
RDSC 4100 Advanced Imaging Modalities (CT section)	3-0-3	

Total Semester Hours for Nuclear Medicine Track 130 hours

d. Sonography Track Major Course 4246 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	
RDSC 4100 Advanced Imaging Modalities (Mammography)	3-0-3
SONO 3001 Sonography Principles and Theory I	6-2-6
SONO 3002 Sonography Principles and Theory II	4-3-5
SONO 3003 Sonography Principles and Theory III	4-6-6
SONO 3100 Introduction to Sonography Clinical Education	1-V-1
SONO 4101 Sonography Clinical Education I	0-V-6
SONO 4102 Sonography Clinical Education II	0-V-6
SONO 4103 Sonography Clinical Education III	0-V-6
SONO 4200 Sonography Synthesis	3-5-3

e. CVIS Track Major Course 4246 Hours

RADS 3060—Principles of Image Formation and Evaluation
RADS 3090—Introduction to Radiation Physics
RADS 3150—Radiobiology and Radiation Protection
RADS 3761—Cardiovascular Clinical Education I
RADS 3762—Cardiovascular Clinical Education
RADS 3771—Introduction to Cardiovascular Intervention
RADS 3772—Cardiovascular Imaging and Equipment
RADS 3775—Advanced Patient Care and Monitoring
RADS 4751—Emergency Care
RADS 4752—Physiologic Monitoring and Recording
RADS 4763—Cardiovascular Clinical Education III
RADS 4764—Cardiovascular Clinical Education IV
RADS 4765—Cardiovascular Clinical Education V
RADS 4771—Cardiovascular Synthesis
RADS 4772—Cardiovascular Seminar
RADS 4773—Fluoroscopic Procedures in the Practice of CVIS

CVIS 3001 Cardiovascular Interventional Sciences I	6-4-6
CVIS 3002 Cardiovascular Interventional Sciences II	6-3-6
CVIS 3003 Physiologic Monitoring and Recording	4-0-4
CVIS 3100 Introduction to Cardiovascular Interventional Sciences Clinical Education 1-V-1	
CVIS 4101 Cardiovascular Interventional Clinical Education IO-V-5	
CVIS 4102 Cardiovascular Interventional Clinical Education II0-V-8	
CVIS 4103 Cardiovascular Interventional Clinical Education III0-V-9	
CVIS 4200 Cardiovascular Interventional Sciences Synthesis3-0-3	
Total Semester Hours for CVIS Track	130 hours

Effective Term: Fall 2015

- B. Health Sciences (no items)
- C. Nursing (no items)

D. Rehabilitation Sciences

1. Modify the following program of study:

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN REHABILITATION SCIENCES

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

PSYC 1101 or PSYC 1101H General Psychology required in area E.3

Core Area F18 hours

HLPR 2000 Introduction to Research in the Health Professions

BIOL 2081/2082 (with labs) Human Anatomy and Physiology I/II

One of the following (if not used in Core Area D. IIa):

BIOL 1107/1107L and BIOL 1108 (with lab) Principles of Biology I/II

CHEM 1211/1212 (with labs) Principles of Chemistry I/II

Physical Education3 hours

First-Year Seminar 1 hour

B. Major Field Courses 39-42 hours

COMM 2280 Speech Communication

HSCF 3005 Applied Musculoskeletal Anatomy and Kinesiology

HSCF 3200 Exercise Physiology

HSCP 4010 Health & Human Development

PHYS 1111K Introductory Physics I

PHYS 1112K Introductory Physics II

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

PSYC 3280 Abnormal Psychology

RESP 2110 Medical Terminology

RHAB 1000 Introduction to Rehabilitation Sciences
 RHAB 4000 Application of Research to the Rehabilitation Professions
 RHAB 4100 Neuroscience for the Rehabilitation Professions
 RHAB 4111 Pathophysiology for the Rehabilitation Professions I
 RHAB 4112 Pathophysiology for the Rehabilitation Professions II

C. Electives **15-18-21 hours**

15 hours must be at or above the 3000 level.

Total Semester Hours

124 hours

Rationale: To enable DegreeWorks to recognize PSYC 1101 requirement correctly and to simplify language in Major Area of Study and Electives.

Effective Term: Fall 2015

III. College of Liberal Arts

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

B. Criminal Justice, Social, and Political Science

1. Create the following courses:

a. **CRJU 1200 Introduction to Cyber Crime** **3-0-3**

Prerequisites: ENGL 1101

Description: History of cybercrime and the examination of techniques and strategies for investigating computer crime.

Rationale: This course is necessary to establish the basic understanding to cybercrime and it part of the transition from a cyber security focus to a cybercrime focus for the track. It also reflects the expertise of new faculty.

Effective Term: Fall 2015

CURCAT:

Major Department: Criminal Justice, Social & Political Science

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Equivalent course: none

b. **CRJU 3190 Criminal Law** **3-0-3**

Prerequisite: CRJU 1100

Description: Examination of legal norms used by government to control deviant behavior and the overlap with moral and social norms.

Rationale: CRJU 2510 Introduction to Criminal Law and CRJU 4510 Advanced Criminal Law are being collapsed into one course i.e. CRJU 3190. This will be an attractive upper level course for our majors as well as serve the need in Track II.

Effective Term: Fall 2015

CURCAT:

Major Department: Criminal Justice, Social & Political Science

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Equivalent course: CRJU 2510 and CRJU 4510

c. CRJU 5010U/G Digital Forensics I 3-0-3

Undergraduate Prerequisites: CRJU 1100 and senior standing

Graduate Prerequisite: None

Description: Identification, capture, and recording of evidence from suspect and victim's computer hard drives and laptops. Students cannot receive credit for both CRJU 5003U/G and CRJU 5010U/G.

Undergraduate Rationale: This course is essential in understanding the means of detecting cybercrime and is part of the transition from a cyber security focus to a cybercrime focus for the track. It also reflects the expertise of new faculty.

Graduate Rationale: Although an online program, this course provides the option for students to engage in hands-on experience of detecting cybercrime. Students can take either CRJU 5010G and CRJU 5020G in seated classes or 5003G online. This course also reflects the expertise of new faculty.

Effective Term: Fall 2015

CURCAT:

Major Department: Criminal Justice, Social & Political Science

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Equivalent course: none

d. CRJU 5020U/G Digital Forensics II 3-0-3

Undergraduate Prerequisites: CRJU 5010U

Graduate Prerequisite: CRJU 5010G

Description: Expansion of the identification, capture, and recording of evidence from suspect and victim's mobile devices such as mobile phones, tablets, and PDAs.

Undergraduate Rationale: This course is essential in understanding the means of detecting cybercrime and is part of the transition from a cyber security focus to a cybercrime focus for the track. It also reflects the expertise of new faculty.

Graduate Rationale: Although an online program, this course provide the option for students to engage in hands-on experience of detecting cybercrime. Students can take either CRJU 5010G and CRJU 5020G in seated classes or 5003G online. This course also reflects the expertise of new faculty.

Effective Term: Fall 2015

CURCAT:

Major Department: Criminal Justice, Social & Political Science

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Equivalent course: none

2. Delete the following courses:

- a. ~~CRJU 2510 INTRODUCTION TO CRIMINAL LAW~~ ~~3-0-3~~

Rationale: CRJU 3190 is created to encompass the content of this course.

Effective Term: Spring 2015

- b. ~~CRJU 4510 ADVANCED CRIMINAL LAW~~ ~~3-0-3~~

Rationale: CRJU 3190 is created to encompass the content of this course.

Effective Term: Fall 2015

- c. ~~CRJU 5001U/G CYBER SECURITY I~~ ~~3-0-3~~

Rationale: This course has been cross-listed with ITEC 5001U/G as part of the interdisciplinary undergraduate Cyber Security track in Criminal Justice and the interdisciplinary graduate Cyber Security Certificate. With the focus of the track changing from Cyber Security to Cyber Crime, this course will return to its original focus as a Cyber Security course in the Information Technology Department.

Effective Term: Fall 2015

d. ~~CRJU 5002U/G CYBER SECURITY II~~ ~~3-0-3~~

Rationale: This course has been cross-listed with ITEC 5002U/G as part of the interdisciplinary undergraduate Cyber Security track in Criminal Justice and the interdisciplinary graduate Cyber Security Certificate. With the focus of the track changing from Cyber Security to Cyber Crime, this course will return to its original focus as a Cyber Security course in the Information Technology Department.

Effective Term: Fall 2015

3. Modify the following course:

CRJU 5003U/G CYBER FORENSICS 3-0-3

Application of computer investigation and analysis techniques to gather evidence suitable for presentation in a court of law. Techniques of cyber crime scene analysis, media analysis, and the use of various forensic tools. **Students cannot receive credit for both CRJU 5003U/G and CRJU 5010U/G.**

Effective Term: Fall 2015

4. Modify Undergraduate Certificate in Criminal Justice

Certificate Program

For this certificate, the student must complete at least 18 semester hours of course work from Armstrong State University.

Undergraduate Certificate in Criminal Justice 30 hours

ENGL 1101 Composition I

ENGL 1102 Composition II

HIST 1111 Civilization I or HIST 1112 Civilization II

One course selected from:

MATH 1001 Quantitative Skills and Reasoning

MATH 1111 College Algebra

MATH 1113 Pre-calculus Mathematics

One course selected from:

ARTS 1100 Art Appreciation

ARTS/MUSC 1270 World Art and Music

ARTS 2710 Art History I

ARTS 2720 Art History II

MUSC 1100 Music Appreciation

THEA 1100 Theatre Appreciation

THEA 1200 Introduction to Theatre

THEA 2410 Oral Interpretation

CRJU 1100 Introduction to Criminal Justice

CRJU 2410 Introduction to Corrections

CRJU 2020 Ethical Theories and Moral Issues in Criminal Justice
 CRJU 2210 Introduction to Law Enforcement
 One course selected from:
 CRJU 2200 Criminal Investigation
~~CRJU 2510 Introduction to Criminal Law~~
 CRJU 3190 Criminal Law

Total **30 hours**

Rationale: CRJU 2510 was deleted and CRJU 3190 was created to replace

Effective Term: Fall 2015

5. Modify Program of Study: B.S. in Criminal Justice

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN CRIMINAL JUSTICE

A. General Requirements

Core Areas A, B, C, D.I, and E42 hours

Track I: General Criminal Justice

Area F18 hours

CRJU 1100 Introduction to Criminal Justice

CRJU 1130 Interpersonal Communication Skills

CRJU 2020 Ethical Theories and Moral Issues in Criminal Justice

CRJU 2210 Introduction to Law Enforcement

~~One course selected from:~~

CRJU 2410 Introduction to Corrections (~~Track I or II~~)

~~CSCI 1150 Fundamentals of the Internet and World Wide Web (Track II only)~~

MATH 2200 Elementary Statistics

Track II: Cyber Crime

Area F18 hours

CRJU 1100 Introduction to Criminal Justice

CRJU 1200 Introduction to Cyber Crime

~~CRJU 1130 Interpersonal Communication Skills~~

~~CRJU 2020 Ethical Theories and Moral Issues in Criminal Justice~~

CRJU 2210 Introduction to Law Enforcement

~~One course selected from:~~

CRJU 2410 Introduction to Corrections (~~Track I or II~~)

~~CSCI 1150 Fundamentals of the Internet and World Wide Web (Track II only)~~

MATH 2200 Elementary Statistics

Physical Education3 hours

First-Year Seminar 1 hour

~~Track II: Cyber Security~~

B. Major Courses33 hours

CRJU 3100 Research Methods

CRJU 3160 White-Collar and Organized Crime

CRJU 3170 Criminal Justice Administration

CRJU 3190 Criminal Law

CRJU 3300 Criminology

CRJU 3500 Criminal Evidence and Procedure

CRJU 4800* Internship

CRJU 5010U Digital Forensics I

CRJU 5020U Digital Forensics II

CRJU 5130U Political Terrorism

CRJU 5300U Juvenile Delinquency

CRJU 5500U Law and Legal Process

Capstone courses:

CRJU 4910 Seminar in Criminal Justice

CRJU 5001U Cyber Security I

CRJU 5002U Cyber Security II

*When possible, the internship should be completed in the field of cyber security.

C. Related Field Courses9 hours

MATH 1111 College Algebra

ITEC 1310 Programming for Information Technology

CSCI 2070 Introduction to Computer Ethics and Cyber Security

D. Approved Electives6 hours6 hours of electives at the 3000+ level. ~~If internship is less than 12 credit hours, those hours are to be made up in upper-level (3000+) electives.~~**E. Free Electives12 hours****Total Semester Hours****124 hours****F. Exit Exam: Area Concentration Achievement Test in Criminal Justice for four-year programs**

Rationale: The modifications to the Track in Criminal Justice reflect the change in focus from Cyber Security to Cyber Crime as well as reflect the expertise of new faculty.

Effective Term: Fall 2015

C. Economics (no items)

D. Gender Studies (no items)

E. History

1. Modify the following course:

HIST 2100 THE AFRICAN DIASPORA

3-0-3

Prerequisite: ENGL 1101

Historical overview of the ~~origins of humanity in Africa and the subsequent~~ spread of African peoples around the world and examination of diasporic issues in the modern era, such as the so-called African brain drain, historic diaspora tourism and development, as well as diasporic experiences of return.-

Rationale: The description and emphasis of the course in the current catalogue does not realistically belong to the field of African Diaspora Studies. The proposed description will appropriately situate HIST 2100 within the current scope of the African Diaspora discourse, not only looking at the historical overview but also contemporary trends.

Effective Term: Fall 2015

European Union Studies Program

2. Create the following course:

EURO 4130 EU Law and Legal Systems

3-0-3

Prerequisite: EURO 2000

Description: A study of EU legal institutions and processes in the context of international law and in comparison to the United States.

Rationale: EURO 4130 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

3. Create the following course:

EURO 4160 Federalism and Multilevel Governance in the EU

3-0-3

Prerequisite: EURO 2000

Description: An examination of multilevel governance and policymaking in the European Union in comparison with the United States and other federal systems.

Rationale: EURO 4160 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

4. Create the following course:

EURO 4230 Doing Business in the EU

3-0-3

Prerequisite: EURO 2000

Description: A study of the challenges of doing business in the EU compared to the United States. Focuses on institutions and rules which impact the business environment for domestic and international firms, and on how political decisions affect the business environment.

Rationale: EURO 4230 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

5. Create the following course:

EURO 4260 European Monetary Union

3-0-3

Prerequisite: EURO 2000

Description: A examination of the history and evolution of European Economic and Monetary Union and its impact on the United States and the global economy.

Rationale: EURO 4260 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

6. Create the following course:

EURO 4430 EU Science and Technology Policy

3-0-3

Prerequisite: EURO 2000

Description: An examination of EU science and technology policy in comparison with the United States. Examines how governments can encourage scientific and technological innovation, and whether government can (or should) try to limit or control technological innovation.

Rationale: EURO 4430 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

7. Create the following course:

EURO 4430 EU Environmental Policy

3-0-3

Prerequisite: EURO 2000

Description: A survey of critical issues in EU environmental policy, including key environmental problems, the challenges of making and implementing environmental policy in the EU's multilevel governance system, and future prospects for EU environmental regulation.

Rationale: EURO 4430 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

8. **Create the following course:**
EURO 4530 European Social Policy **3-0-3**
Prerequisite: EURO 2000
Description: An examination of social policy and current social policy issues and arrangements in Europe and the EU.

Rationale: EURO 4530 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

9. **Create the following course:**
EURO 4630 Communications and Media **3-0-3**
Prerequisite: EURO 2000

Description: An examination of communications and the media in the EU in comparison with the United States. Examines media law, policies, and practices in the realms of broadcasting, voice telephony, the Internet and social media.

Rationale: EURO 4630 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

10. Create the following course:

EURO 4730 EU Foreign Policy

3-0-3

Prerequisite: EURO 2000

Description: An examination of the foreign policy of the EU. Examines how EU foreign policy is made, the intersection of national and EU foreign policies, and EU policies regarding key issues and countries/areas of the world.

Rationale: EURO 4730 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

11. Create the following course:

EURO 4760 US-EU Relations

3-0-3

Prerequisite: EURO 2000

Description: An examination of relations between the United States and the European Union, including US-EU cooperation on global issues and the future of transatlantic relations in a changing world.

Rationale: EURO 4760 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

12. Create the following course:

EURO 4830 EU Studies Capstone Course

3-0-3

Prerequisite: EURO 2000

Description: A capstone course for students in the EU Studies certificate program. Explores various selected topics in a way that allow students to synthesize their knowledge of the EU.

Rationale: EURO 4830 is an online course offered by the European Union Studies Program of the University System of Georgia. For ASU to participate in the program, common course numbers and descriptions are required in order to use the Ingress course registration system for collaborative online courses used by GoVIEW.

Effective Term: Spring 2015

CURCAT:

Major Department: History

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: None

13. Modify the following minor:

European Union Studies Minor

European Union Studies15 hours

EURO 2000 Introduction to the European Union

Nine hours from a multidisciplinary menu that includes **the following campus (with at least a 25% EU component)** as well as online courses: **BIO 3100, ECON 3100, ECON 3200, ECON 33450, HIST 3330, HIST 3360, HIST 3390, HIST 4831, HIST 5480U, HIST 5490U, HIST 5670, POLS 3340, EURO 3990, EURO 4130, EURO 4160, EURO 4230, EURO 4260, EURO 4330, EURO 4430, EURO 4530, EURO 4630, EURO 4730, EURO 4760** ~~(consult Department of History for an updated list of courses).~~

Capstone seminar: **EURO 4500 or EURO 4830**

Rationale: The above list of courses is an updated list of currently available campus courses and online courses offered on a two-year cycle by the European Union Studies Program of the University System of Georgia.

Effective Term: Fall 2015

14. Modify the following certificate program:

The European Union Studies Certificate provides an in-depth study of the European Union (EU) and its relationship with the United States and other nations. It is a collaborative program of Armstrong; **and** the European Union Studies Program of the University System of Georgia ~~and the University of Munich~~. The program offers a common curriculum open to all university system institutions.

A certificate in EU Studies can be taken in tandem with a formal degree program. Students from all academic majors are eligible to participate as long as they possess a minimum 2.75 cumulative GPA. A student may formally apply to enroll in the program after successful completion of the following:

EURO 2000 Introduction to the European Union with a grade of C or better
30 semester hours of academic credit
History 111 or 1112

Undergraduate Certificate in European Union Studies 18 hours

Note: students must maintain a 3.0 cumulative GPA upon graduation.

EURO 2000 Introduction to the European Union

Four courses from a multidisciplinary menu **that includes the following campus (with at least a 25% EU component)** as well as online courses: **BIO 3100, ECON 3100, ECON 3200, ECON 33450, HIST 3330, HIST 3360, HIST 3390, HIST 4831, HIST 5480U, HIST 5490U, HIST 5670, POLS 3340, EURO 3990, EURO 4130, EURO 4160, EURO 4230, EURO 4260, EURO 4330, EURO 4430, EURO 4530, EURO4630, EURO 4730, EURO 4760** ~~For an updated list of courses (including online courses), see the program's campus representative.~~

Capstone seminar: **EURO 4500 or EURO 4830**

Practicum experience. The required practicum experience can be fulfilled by a study abroad course or a hands-on internship. The practicum experience must be approved by the program's campus representative.

Areas of distinction. The certificate also highlights special achievements by providing a notation of “distinction” in two areas:

- Foreign language proficiency (6 semester hours at or above the 2000 level)
- Composition of a thesis

Rationale: The above list of courses is an updated list of currently available campus courses and online courses offered on a two-year cycle by the European Union Studies Program of the University System of Georgia.

Effective Term: Fall 2015

F. Languages, Literature, & Philosophy

1. Delete the following course:

~~ENGL 0099 BASIC COMPOSITION~~ ~~3-0-3~~

Rationale: These curricular changes are the result of a set of Complete College Georgia requirements and USG requirements for learning support courses beginning in Fall 2015. The course redesign is the product of the research and recommendations of LLP’s Dr. Annie Mendenhall in a study undertaken over the summer at the request of the Provost’s Office.

Effective Term: Fall 2015

2. Create the following course:

ENGL 0999 Support for English Composition **1-0-1**

Prerequisite: English Placement Index of less than 4449

Corequisite: English 1101 or English 1102

This course is intended to provide corequisite support for students requiring remediation in English or reading while they are enrolled in English Composition.

Rationale: These curricular changes are the result of a set of Complete College Georgia requirements and USG requirements for learning support courses beginning in Fall 2015. The course redesign is the product of the research and recommendations of LLP’s Dr. Annie Mendenhall in a study undertaken over the summer at the request of the Provost’s Office.

Effective Term: Fall 2015

CURCAT:

Major Department: Languages, Literature, & Philosophy

Can Course be repeated for additional credit? Yes

Maximum Number of Credit Hours: 2

Grading Mode: S/U
Instruction Type: Lecture
Course Equivalent: NA

3. Modify the following course:

ENGL 1101 COMPOSITION I

3-0-3

~~Prerequisite: Each student must attain at least one of the following prior to enrolling: (a) a score of at least 380 SAT Verbal or 20 on the verbal section of the ACT; or (b) a passing score on the Compass in English and in reading; or (c) exit learning support English and learning support reading successfully.~~

Prerequisite: English Placement Index of 4449 or higher

Corequisite: ENGL 0999 for EPI less than 4449

Rationale: These curricular changes are the result of a set of Complete College Georgia requirements and USG requirements for learning support courses beginning in Fall 2015. The course redesign is the product of the research and recommendations of LLP's Dr. Annie Mendenhall in a study undertaken over the summer at the request of the Provost's Office.

Effective Term: Fall 2015

4. Modify the following course:

ENGL 1102 COMPOSITION II

3-0-3

Prerequisite: ENGL 1101 with a grade of C or better and English Placement Index of 4449 or higher

Corequisite: ENGL 0999 for EPI less than 4449

Rationale: These curricular changes are the result of a set of Complete College Georgia requirements and USG requirements for learning support courses beginning in Fall 2015. The course redesign is the product of the research and recommendations of LLP's Dr. Annie Mendenhall in a study undertaken over the summer at the request of the Provost's Office.

Effective Term: Fall 2015

- G. Liberal Studies (no items)
- H. Honors Program (no items)

IV. College of Science and Technology

- A. Biology (no items)

B. Chemistry and Physics

1. Modify the following course:

CHEM 1211 PRINCIPLES OF CHEMISTRY I

3-3-43-0-3

Prerequisite-~~or corequisite~~: MATH 1111 (minimum grade of C) or eligibility for MATH 1113, MATH 1161 or MATH 2072

Prerequisite or corequisite: CHEM 1211L

First course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include composition of matter; nomenclature; atomic structure; bonding and molecular geometries; stoichiometry; properties of solids, liquids, gases; acids and bases; thermochemistry; and periodic relations. ~~The lab reinforces these topics.~~

Rationale: DFW rates in CHEM 1211 for the past 3 academic years are over 31%. Students currently have to retake both the lecture and the laboratory. If split, most of these students will not take up lab seats in upcoming semesters, allowing more room for new students. In addition, these students will not have to pay a second lab fee and pay additional tuition for a class that they have already completed. Students that do well in lab, but not well enough to pull up their lecture grade to the next letter grade are better off in terms of GPA if the classes are not combined. In addition, our university splits lecture and lab into two separate credit-bearing courses for Organic Chemistry (CHEM 2101/ CHEM 2102), Survey of Chemistry (CHEM 1151/CHEM 1152) and Biology (BIOL 1107). This change means that all the chemistry offerings by the Department of Chemistry and Physics that count toward area D in the core will be consistent. If we split the two as proposed, it will make the transfer process more effective for students who have passed either the lab or the lecture, but not both.

MATH 1111 is required for any student with an SAT score lower than 550. Students with less than 550 have a higher likelihood of earning a DWF than the average in CHEM 1211.

Based on student data for the last three years, the average GPA of students completing MATH 1111 with a C or better prior to taking chemistry was 0.64 grade points higher (Data below).

For students with math SAT <550 for 2010-2013 (only those students that took both chemistry and math in that window) including W/without W

Co-req MATH 1111 and CHEM 1211: n = 233/186 mean GPA = 1.49/1.87

Pre-req MATH 1111 with C: n = 250/160 mean GPA = 2.13/2.31

In addition, the changes in learning support class policies will allow students that are demonstrating lower math proficiency than the current cohort to enroll in CHEM 1211. Currently those students must complete the learning support class before enrolling in MATH 1111 and possibly CHEM 1211. See the excerpt below regarding this change in policy:

“To achieve dramatic increases in success of and completion by students who are placed in Learning Support, the USG will adopt **corequisite remediation** as the default method of remediation. This means that by **fall of 2015** it is expected that the majority of Learning Support students at the majority of USG institutions will be enrolled in corequisite remedial support courses while they are also enrolled in gateway college courses (ENGL 1101 or an Area A mathematics course).”

http://www.usg.edu/educational_access/complete_college_georgia/transforming_remediation
 Accessed 10 Sep 2014.

Effective Term: Fall 2015

CURCAT:

Major Department: Chemistry

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 43

Grading Mode: Normal

Instruction Type: Lecture and Laboratory

Course Equivalent: None

2. Modify in Banner/add to catalog the following course:

CHEM 1211L PRINCIPLES OF CHEMISTRY I LABORATORY 0-3-00-3-1

Prerequisite or Corequisite: CHEM 1211

First course in a two-semester sequence introducing students to chemical laboratory principles and experimental design.

Rationale: Our university splits lecture and lab for introductory chemistry and biology courses into two separate credit-bearing courses. If we split the two as proposed, it will make the transfer process more effective for students who have passed either the lab or the lecture, but not both. DFW rates in CHEM 1211 for the past 3 academic years are over 31% but students usually do well in the laboratory. Splitting the lab and lecture course will allow students to repeat the lecture and not take up lab seats in upcoming semesters, allowing more room for new students. In addition, these students will not have to pay a second lab fee, and pay additional tuition for a class that they have already completed. Students that do well in lab, but not well enough to pull up their lecture grade to the next letter grade are better off in terms of GPA if the classes are not combined. In addition, the pedagogical style that we use in the lab is adversely affected by having students that have performed well in the laboratory repeating the material.

Effective Term: Fall 2015

CURCAT:

Major Department: Chemistry

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 01

Grading Mode: Normal
Instruction Type: Laboratory
Course Equivalent: None

3. Modify in Banner/add to catalog the following course:

CHEM 1212L PRINCIPLES OF CHEMISTRY II LABORATORY ~~0-3-00-3-1~~

Prerequisite: CHEM 1211 (minimum grade of C) and CHEM 1211L (minimum grade of C)

Prerequisite or Corequisite: CHEM 1212

Second course in a two-semester sequence introducing students to chemical laboratory principles and experimental design.

Rationale: Our university splits lecture and lab for introductory chemistry and biology courses into two separate credit-bearing courses. If we split the two as proposed, it will make the transfer process more effective for students who have passed either the lab or the lecture, but not both. DFW rates in CHEM 1212 for the past 3 academic years are over 22% but students usually do well in the laboratory. Splitting the lab and lecture course will allow students to repeat the lecture and not take up lab seats in upcoming semesters, allowing more room for new students. In addition, these students will not have to pay a second lab fee, and pay additional tuition for a class that they have already completed. Students that do well in lab, but not well enough to pull up their lecture grade to the next letter grade are better off in terms of GPA if the classes are not combined. In addition, the pedagogical style that we use in the lab is adversely affected by having students that have performed well in the laboratory repeating the material.

Effective Term: Fall 2015

CURCAT:

Major Department: Chemistry

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 01

Grading Mode: Normal

Instruction Type: Laboratory

Course Equivalent: None

4. Modify the following course:

CHEM 1212 PRINCIPLES OF CHEMISTRY II ~~3-3-43-0-3~~

Prerequisite: CHEM 1211 (minimum grade of C) and MATH 1111 and CHEM 1211L (minimum grade of C)

Second course in a two-semester sequence covering the fundamental principles and applications of chemistry designed for science majors. Topics include solutions; thermodynamics; equilibria; kinetics; electrochemistry; nuclear chemistry; descriptive inorganic chemistry; and introduction to organic chemistry, and polymers. ~~The lab reinforces these topics.~~

Rationale: DFW rates in CHEM 1212 for the past 3 academic years are over 22%. Students currently have to retake both lecture and laboratory. These students will not take up lab seats in upcoming semesters, allowing more room for new students. In addition, these students will not have to pay a second lab fee, and pay additional tuition for a class that they have already mastered. Students that do well in lab, but not well enough to pull up their lecture grade to the next letter grade are better off in terms of GPA if the classes are not combined. In addition, our university splits lecture and lab into two separate credit-bearing courses for Organic Chemistry (CHEM 2101/ CHEM 2102), Survey of Chemistry (CHEM 1151/CHEM 1152) and Biology (BIOL 1107). If we split the two as proposed, it will make the transfer process more effective for students who have passed either the lab or the lecture, but not both. Since we are also proposing to split the lecture and laboratory for CHEM 1211, students must pass both with a C or better to register for CHEM 1212.

Effective Term: Fall 2015

CURCAT:

Major Department: Chemistry

Can Course be repeated for additional credit? No

Maximum Number of Credit Hours: 4~~3~~

Grading Mode: Normal

Instruction Type: Lecture and Laboratory

Course Equivalent: None

5. Modify the following course:

CHEM 1212H HONORS PRINCIPLES OF CHEMISTRY II 3-0-3

Prerequisite: CHEM 1211 (minimum grade of B) and CHEM 1211L (minimum grade of B) and approval of department head.

Prerequisite or corequisite: CHEM 1212A

Rationale: Since we have split CHEM 1211 and CHEM 1211L, students must pass both with a B or better to register in CHEM 1212H.

Effective Term: Fall 2015

6. Modify the following course:

CHEM 2000 FUNDAMENTALS OF ORGANIC CHEMISTRY AND BIOCHEMISTRY 3-0-3

Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C)

Rationale: Since we have split CHEM 1212 and CHEM 1212L, students must pass both with a C or better to register in CHEM 2000.

Effective Term: Fall 2015

7. Modify the following course:**CHEM 2101 ORGANIC CHEMISTRY I****3-0-3**

Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C)

Prerequisite or corequisite: CHEM 2101L

Rationale: Since we have split CHEM 1212 and CHEM 1212L, students must pass both with a C or better to register in CHEM 2101.

Effective Term: Fall 2015**8. Modify the following course:****CHEM 2300 PRINCIPLES OF CHEMICAL ANALYSIS****3-4-4**

Prerequisite: CHEM 1212 (minimum grade of C) and CHEM 1212L (minimum grade of C)

Rationale: Since we have split CHEM 1212 and CHEM 1212L, students must pass both with a C or better to register in CHEM 2300.

Effective Term: Fall 2015**9. Request for a blanket change replacement by catalog editor:****CHEM 1211 to CHEM 1211/1211L****CHEM 1212 to CHEM 1212/1212L****Effective Term: Fall 2015****C. Computer Science and Information Technology****1. Delete the following course:**~~**ITEC 5001U/G CYBER SECURITY I**~~~~**3-0-3**~~

Rationale: Since 2008, this course has been cross-listed with CRJU 5001U/G, as part of the interdisciplinary undergraduate minor in Cyber Security. With the focus of Criminal Justice's Cyber coursework shifting from Cyber Security to Cyber Crime, this course, which only briefly discusses Cyber Crime, no longer needs to be listed at the 5000 level. Originally taught as ITEC 3100, it can return to its original focus as an undergraduate course on Cyber Security. The newly renumbered version of this course will remain a required course in the undergraduate IT major.

Effective Term: Fall 2015

2. Delete the following course:**~~ITEC 5002U CYBER SECURITY II~~****~~3-0-3~~**

Rationale: Since 2008, this course has been cross-listed with CRJU 5002U, as part of the interdisciplinary undergraduate minor in Cyber Security. With the focus of Criminal Justice's Cyber coursework shifting from Cyber Security to Cyber Crime, this course, which only briefly discusses Cyber Crime, no longer needs to be listed at the 5000 level. The newly renumbered version of this course will remain a required course in the undergraduate minor in Cyber Security.

Effective Term: Fall 2015**3. Create the following course:****ITEC 3700 CYBER SECURITY I****3-0-3**

Prerequisites: CSCI 2070

Current standards and best practice in information assurance and security. Topics include the evaluation of security models, threat analysis, security risk assessment and risk mitigation, disaster recovery planning, cryptography and encryption algorithms, and security policy formation and implementation. **Cross-listed with CRJU 3700. [Editor's note: CRJU 3700 has not yet been created.]**

Rationale: Previously ITEC 5001U, this is the same course, except renumbered as an undergraduate course. This course has been renumbered because it is no longer needed for the Criminal Justice graduate certificate in Cyber Crime, and thus it should be changed to an undergraduate course number. It will remain as: a required course in the IT major; a required course in the undergraduate minor in Cyber Security; and will be a course in the new (see below) undergraduate certificate in Cyber Security. Because it is offered in these three undergraduate courses of study, it is more appropriate that it be numbered as an undergraduate course.

Effective Term: Fall 2015**CURCAT****Major Department: Computer Science and Information Technology****Maximum Number of Credit Hours: 3****Repeatable: No****Grading Mode: Normal****Instruction Type: Lecture****Equivalent Courses: ITEC 5001U, CRJU 3700**

4. **Create the following course:**
ITEC 4200 CYBER SECURITY II, NETWORK SECURITY **3-0-3**
 Prerequisites: ITEC 3700
 Concepts of network security, including: countermeasures and safeguards to networks such as remote access controls, firewalls, intrusion detection systems, data encryption, and virtual private networks. **Cross-listed with CRJU 4200. [Editor's note: CRJU 4200 has not yet been created]**

Effective Term: Fall 2015

Rationale: Previously ITEC 5002U, this is the same course, except renumbered as an undergraduate course. This course has been renumbered because it is no longer needed for the Criminal Justice graduate certificate in Cyber Crime, and thus it should be changed to an undergraduate course number. It will remain as: a required course in the undergraduate minor in Cyber Security; and will be a course in the new (see below) undergraduate certificate in Cyber Security. Because it is offered in these undergraduate courses of study, it is more appropriate that it be numbered as an undergraduate course.

CURCAT

Major Department: Computer Science and Information Technology

Maximum Number of Credit Hours: 3

Repeatable: No

Grading Mode: Normal

Instruction Type: Lecture

Equivalent Courses: ITEC 5002U, CRJU 4200

5. **Create the following course:**
ITEC 4300 CYBER SECURITY III, ETHICAL HACKING **3-0-3**
 Prerequisites: ITEC 4200
 Concepts of hacker techniques and tools, including: cryptographic concepts, a technical overview of hacking, including port scanning, enumeration of computer systems, wireless vulnerabilities, web and database attacks, malware, and penetration testing. Social aspects of hacking, including social engineering. Incident response. **Cross-listed with CRJU 4300. [Editor's note: CRJU 4300 has not yet been created.]**

Rationale: This is a totally new course, designed to further the student's knowledge of how to attack and defend a networked information/computer system. As the number of hacking incidents continues to grow, students entering the Cyber Security career field must be able to recognize and perform attacks on systems in order to understand how to defend such computer systems from attack. This course will be a required course in the undergraduate minor in Cyber Security; and will be a course in the new (see below) undergraduate certificate in Cyber Security.

Effective Term: Fall 2015

CURCAT**Major Department: Computer Science and Information Technology****Maximum Number of Credit Hours: 3****Repeatable: No****Grading Mode: Normal****Instruction Type: Lecture****Equivalent Courses: CRJU 4300****6. Create the following course:****ITEC 3950 ADVANCED MOBILE APP DEVELOPMENT****3-0-3**

Prerequisite: ITEC 2000

An advanced course in Mobile App Development with more advanced techniques such as the development of gaming applications and applications for database access.

Rationale: An advanced course in Mobile App Development with more advanced techniques like gaming and database access. Adding this course will enable the Department of Computer Science and Information Technology to offer two levels of Mobile and Web Development Certificates and one Minor in Mobile and Web Development.

Effective Term: Fall 2015**CURCAT****Major Department: Computer Science and Information Technology****Maximum Number of Credit Hours: 3****Repeatable: No****Grading Mode: Normal****Instruction Type: Lecture****Equivalent Courses: None****7. Modify the following Program of Study:****PROGRAM FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY****B. Major Field Courses36 hours**

CSCI 2070 Ethical Considerations in Computer Science

CSCI 2201 UNIX and Secure Web Development

ITEC 2530 Operating Systems

ITEC 3500 Database Administration

ITEC 3600 Systems Analysis and Design

ITEC 3700 Cyber Security I

ITEC 3710 E-commerce

ITEC 3800 Data Communications and Networks

ITEC 4391 Senior Capstone Project I

ITEC 4392 Senior Capstone Project II

ITEC 4770 Client/Server Systems
 ITEC 4800 Network Design and Administration
 ITEC 4830 Graphics Design
~~ITEC 5001U Cyber Security I~~

Effective Term: Fall 2015

8. Modify the following program of study:

Cyber Security Minor

Cyber Security 21~~18~~ hours
 CSCI 1150, CSCI 2070, ~~CRJU/ITEC 3700~~~~CRJU/ITEC 5001U~~, ~~CRJU/ITEC 4200~~,
~~CRJU/ITEC 4300~~~~CRJU/ITEC 5002U~~
 One course selected from: ITEC 1310, ~~CSCI 1301~~, ~~CSCI 1302~~
 One course selected from: CRJU 3300, CRJU 3500, CRJU 3600, CRJU 5500U

Rationale: Changes required in order to account for the renumbering of ITEC/CRJU 5001U to the undergraduate ITEC/CRJU 3700 and ITEC/CRJU 5002U to ITEC/CRJU 4200. Remove CSCI 1302, as it contains multiple hidden prerequisites (MATH 1113, CSCI 1301).

Effective Term: Fall 2015

9. Create the following undergraduate certificate program:

Undergraduate Certificate in Cyber Security18 hours

CSCI 1150 Fundamentals of the Internet and the World Wide Web
 One course selected from:
 CSCI 1301 Introduction to Programming Principles
 ITEC 1310 Programming for IT
 CSCI 2070 Ethical Considerations in Computer Science
 ITEC 3700 Cyber Security I
 ITEC 4200 Cyber Security II, Network Security
 ITEC 4300 Cyber Security III, Ethical Hacking

Rationale: This undergraduate certificate program is being offered with the intent of making it available to students, often non-traditional students such as active duty military personnel, who wish to obtain a certificate in Cyber Security without having to earn an undergraduate major. The program requires a minimum of “hidden” prerequisites – the only one being MATH 1111, which is the prerequisite for both CSCI 1150 and ITEC 1310, or MATH 1113, which is the prerequisite for CSCI 1301 (if CSCI 1301 is chosen). ITEC 1310 is an option because it is the IT prerequisite for CSCI 2070, Computer Ethics, which is the prerequisite for ITEC 3700. CSCI 1301 is an option because it is the CS prerequisite for CSCI 2070. CSCI 1150 is included because any student earning a certificate in Cyber Security must have a functional knowledge of the Internet and a minimal ability to code in HTML. While this

appears to mimic the undergraduate minor in Cyber Security, earning a minor implies that the student is also majoring in a course of study, i.e., is a full-time, degree-earning student at ASU. This certificate program will enable a student to only earn this certificate without having to enter a degree program. Degree-earning students should be encouraged and “steered” to earning the minor, as opposed to the certificate.

Effective Term: Fall 2015

10. Create the following track for the Associate of Science Degree

Cyber Security Track

A. General Requirements (Core Areas A, B, C, D.I, and E)	42 hours
In Core Area A, MATH 1111 must be taken	
If CSCI 1301 is taken under Additional Requirements, then MATH 1113 must also be taken	
Physical Education	3 hours
First-Year Seminar	1 hour
B. Additional Requirements	18 hours
CSCI 1150 Fundamentals of the Internet and the World Wide Web	
One course selected from:	
CSCI 1301 Introduction to Programming Principles	
ITEC 1310 Programming for IT	
CSCI 2070 Ethical Considerations in Computer Science	
ITEC 3700 Cyber Security I	
ITEC 4200 Cyber Security II, Network Security	
ITEC 4300 Cyber Security III, Ethical Hacking	
Total Semester Hours	64

Rationale: By offering an Associate of Science with a Cyber Security track, the Cyber Security curriculum will become “stackable.” It allows a student who may have only matriculated to Armstrong for the undergraduate certificate, and then wanting to earn a degree, to take the credits earned for the certificate and apply them to an Associate’s degree. Should that student decide to earn a Bachelor’s in Information Technology at Armstrong, or an equivalent Bachelor’s degree at another institution (especially another USG institution), the Associate’s will then allow that student to seamlessly transition into the major program.

Effective Term: Fall 2015

11. Create the following minor:

Mobile and Web Development Minor

Mobile and Web Development..... 18 hours

One course selected from:

 CSCI 1301 Introduction to Programming Principles

 ITEC 1310 Programming for IT

CSCI 1150 Fundamentals of the Internet and the World Wide Web
 CSCI 3301 UNIX and Secure Web Development
 CSCI 3370 Human Computer Interaction
 ITEC 2000 Introduction to App Development
 ITEC 3950 Advanced Mobile App Development

Rationale: Mobile and Web Development is currently in high demand in industry and it is predicted that it will continue to be in high demand in the foreseeable future. Creating the Mobile and Web Development Minor will attract students from other disciplines at Armstrong for earning a high demand minor.

Effective Term: Fall 2015

12. Create the following undergraduate certificates:

Undergraduate Certificate of Mobile and Web Development 12 hours

CSCI 1150 - Fundamentals of the Internet and World Wide Web

One course selected from:

CSCI 1301 Introduction to Programming Principles

ITEC 1310 Programming for Information Technology

CSCI 3301 - UNIX and Secure Web Development

ITEC 2000 - Introduction to App Development

Undergraduate Advanced Certificate of Mobile and Web Development..18 hours

Undergraduate Certificate of Mobile and Web Development, plus the following courses:

CSCI 3370 - Human Computer Interaction

ITEC 3950 - Advanced Mobile App Development

Rationale: Mobile and Web Development is currently in high demand in industry and it is predicted that it will be in high demand in the foreseeable future. Creating the certificates of Mobile and Web Development will enable us to attract students at Armstrong or working professionals for earning one or both certificates in this high demand technology.

Effective Term: Fall 2015

- D. Engineering Studies (no items)
- E. Mathematics (no items)
- F. Psychology (no items)

OTHER BUSINESS

ADJOURNMENT

October 30, 2014

The Senate has remanded the following items from the UCC Minutes of Oct 1, 2014

1) Under the College of Liberal Arts: Fix D: Gender Women's Studies Item 7A under Area F: GNST 2101 should read: GNST 2101 Ethics, Values and Gender. It currently reads GNST 2010 Ethics and Gender.

2) Under the College of Liberal Arts Languages Literature and Philosophy, F, Item 29. Fix the issue behind creating ESOL 4010 Applied Languages for ESOL Teachers. Senate discussion on October 20, 2014 revealed Georgia Professional Standards Commission (GaPSC) is the only one that can approve a program that deals with any type of teacher certification, including ESOL. The mention of a "Certificate in Teaching English as a Second Language" in the proposed Program of Study is a concern, due to the fact that ASU has not applied for, nor received, permission from the GaPSC for that certificate. In addition, the completion of the coursework does not end in certification. There are additional requirements from the GaPSC that must be met in order for teachers to be "certified" in any field, including mandatory testing, data collection, and a Pre-Service Certificate in order to do any field work in the Public Schools.

3) Concerns about listing ESOL 4010 as a supporting course ties closely to above mentioned concerns. Delete CLA/LLP D, item 30.

Therefore UCC's charge is:

- 1) Fix the typo in D College of Liberal Arts Item 7A under Area F in Gender Women's Studies.
- 2) Delete College of Liberal Arts Languages Literature and Philosophy, F, Item 29. ESOL 4010. Coordinate with COE Associate Dean and/or the Georgia Professional Standards Commission, CLA/LLP French eMajor Coordinator and the Valdosta University French eMajor coordinator to work out certification issues and requirements that will satisfy ASU and USG, French eMajor.
- 3) Delete College of Liberal Arts Languages Literature and Philosophy, F, Item 30. SOL 4010. Coordinate with COE Associate Dean and/or the Georgia Professional Standards Commission, CLA/LLP French e Major, coordinator and the Valdosta University French eMajor coordinator to work out certification issues and requirements that will satisfy ASU and USG French eMajor programs.

UCC should come back to the Senate after these changes have been coordinated and worked out.

Note: The rest of the CLA/LLP French eMajor program was approved by the Senate with little or no discussion. COE Associate Dean is willing to meet with UCC and explain the nuances and concerns regarding the certification issue. The Senate recommends that UCC wait until the issues

mentioned in this charge are resolved. UCC committee should then resubmit the three items in a future Senate meeting.

Respectfully

Elizabeth F. Desnoyers-Colas Ph.D

President, Faculty Senate