

Armstrong

MEMORANDUM

To: University Curriculum Committee
From: Phyllis Panhorst
Catalog Editor and Committee Secretary
Date: January 4, 2012
Re: Agenda – January 11, 2012

The University Curriculum Committee will meet at 3:00 p.m. on Wednesday, January 11 in University Hall 282.

AGENDA

CALL TO ORDER

Rick McGrath

APPROVAL OF MINUTES – November 9, 2011

ITEMS

I. College of Education

A. Adolescent and Adult Education

1. Modify the activity credit and description for the following course:

PEBC 1010 LIFETIME FITNESS TRAINING

~~0-3-1~~ 1-V-1

Description: Basic fitness **and wellness** concepts and ~~their~~ applications to everyday life. Participation in an individualized **fitness** program ~~of aerobic activity~~.

Rationale: Accurately defines course credit. Description change more accurately reflects course content in a concise narrative.

Effective date: Fall 2012

2. Modify the activity credit and description for the following course:

PEBC 1020 AEROBIC DANCE

~~0-3-1~~ 0-1-1

Description: ~~A e~~Combination of exercise and dance steps to improve ~~the~~ cardiovascular **endurance** ~~system~~, muscular endurance, strength, and flexibility.

Rationale: Accurately defines course credit. Description change more accurately reflects course content in a concise narrative.

Effective date: Fall 2012

3. Modify the credit and description for the following course:

PEBC 1070 TEAM SPORTS

~~0-2-1~~ 1-V-1

Description: ~~Consists of~~ **Instruction in** two of the following sports: basketball, volleyball, soccer, and/or softball.

Rationale: Description change more accurately reflects course content in a concise narrative. Accurately defines course credit

Effective date: Fall 2012

4. Modify the credit and the description for the following course:

PEBC 1080 BOWLING

~~0-2-1~~ 0-V-1

Description: Basic skills in bowling. Minimum of ~~two~~ **three** games required per class period at student's expense. Must provide own transportation.

Rationale: Description change accurately reflects course content. Accurately defines course credit

Effective date: Fall 2012

5. Modify the credit and the description for the following course:

PEBC 1090 ARCHERY

~~0-2-1~~ 0-1-1

Description: Basic skills in archery for recreational ~~use~~. Students must provide own arm and finger guards.

Rationale: Change makes description more concise. Accurately defines course credit

Effective date: Fall 2012

6. Modify the activity credit and description for the following course:

PEBC 1200 YOGA FOR BEGINNERS

~~0-3-1~~ 0-1-1

Description: ~~Students will be introduced to the basic principles and benefits of yoga. Students will strengthen and stretch muscles while improving flexibility, body alignment, and breathing techniques. Each class meeting will consist of a variety of physical warm-ups, alignment, breathing exercises, asanas (yoga postures), and relaxation exercise.~~
Instruction and practice in yoga positions to improve strengthen muscles, Students will strengthen and stretch muscles while improving flexibility, body alignment, and breathing techniques. Each class meeting will consist of a variety of physical warm-ups, alignment, breathing exercises, asanas (yoga postures), and relaxation exercise.

Rationale: Accurately defines course credit. Description change more accurately reflects course content in a concise narrative.

Effective date: Fall 2012

7. **Modify prerequisite, corequisite, and description for the following course:** PEBC 1250 Pilates **0-1-1**

Prerequisites: None

Corequisites: None

Description: Pilates mat work exercises to strengthen the core, improve posture, and increase flexibility.

Rationale: There are no prerequisites and corequisites for the course. Description change more accurately reflects course content.

Effective date: Fall 2012

8. **Modify the activity credit and description for the following course:** PEBC 1301 BASIC SWIMMING SKILLS **0-3-1 0-V-1**

Description: **Fundamental** sSkills and strokes for the student **with little to no swim experience unfamiliar with or afraid of the water and who cannot swim. Principles of water safety are included.**

Rationale: Accurately defines course credit. Description change more accurately reflects course content in a concise narrative.

Effective date: Fall 2012

9. **Modify the credit and the description for the following course:** PEBC 1302 INTERMEDIATE SWIMMING **0-2-1 0-V-1**

Description: Six basic strokes, skills, endurance, and ~~knowledge pertaining to~~ **principles of** safety in, on, ~~or~~ **and** about water.

Rationale: Description change more accurately reflects course content in a concise narrative. Accurately defines course credit

Effective date: Fall 2012

10. **Modify the credit and description for the following course:** PEBC 1350 BEGINNING SCUBA **0-3-1 0-V-1**

Description: **Fundamentals of scuba diving including dive equipment and techniques. Beginning recreational scuba diving activities in local aquatic environments local waters. Optional: dive trip required to secure PADI certification.** Additional fees is required; **contact the department secretary for fee estimate.** Must provide own transportation **for each class meeting.**

Rationale: Accurately defines course credit. Description change more accurately reflects course content and requirements.

Effective date: Fall 2012

11. Modify the activity credit and description for the following course:PEBC 1380 WATER AEROBICS AND EXERCISE ~~0-3-1~~ **0-1-1**

Description: Principles of cardiorespiratory fitness, **flexibility, and resistance training** associated with **the dynamics of** aquatics ~~and resistance training~~. ~~No swimming skills required.~~

Rationale: Accurately defines course credit. Description change more accurately reflects course content.

Effective date: Fall 2012

12. Modify the credit and the description for the following course:PEBC 1401 ELEMENTARY TENNIS ~~0-2-1~~ **0-1-1**

Description: Basic **rules**, skills, ~~rules~~, strategies, and practice for singles and doubles ~~in tennis~~. Student must provide own racket and one can of new tennis balls.

Rationale: Change makes description more concise. Accurately defines course credit

Effective date: Fall 2012

13. Modify the credit and the description for the following course:PEBC 1402 INTERMEDIATE TENNIS ~~0-2-1~~ **0-1-1**

Description: Advanced ~~techniques and knowledge of~~ **instruction in** skills and strategy in tennis. Student must provide own racket and **one** can of new tennis balls.

Rationale: Description change more accurately reflects course content in a concise narrative. Accurately defines course credit

Effective date: Fall 2012

14. Modify the credit and the description for the following course:PEBC 1450 BADMINTON ~~0-2-1~~ **0-1-1**

Description: Basic **rules**, skills, ~~rules~~, strategies, and practice for singles and doubles.

Rationale: Change in organization of descriptors follows progression of course content. Accurately defines course credit

Effective date: Fall 2012

15. Modify the credit and the description for the following course:PEBC 1501 BEGINNING MODERN DANCE ~~0-2-1~~ **0-1-1**

Description: ~~Art of modern dance including~~ **Modern dance positions and** technique, exercise, **with** basic improvisation, ~~dance positions, and locomotor movement.~~

Rationale: Description change more accurately reflects progression of course content. Accurately defines course credit

Effective date: Fall 2012

16. Modify the credit and the description for the following course:

PEBC 1502 Contemporary Dance from Around the World ~~0-2-1~~ **0-1-1**

~~Description: Continuation of PEBC 1501. This course includes s~~ Social dances from different countries with emphasis on dynamics, composition, and choreography.

~~Dances may include: cha-cha, salsa/mambo, tango, rumba, swing, line, plus square dances from various countries.~~

Rationale: Change makes description more accurate. Accurately defines course credit

Effective date: Fall 2012

17. Modify the credit and the description for the following course:

PEBC 1530 INTERMEDIATE MODERN DANCE ~~0-2-1~~ **0-1-1**

Description: **Advanced** instruction and practice in many forms of **modern dance** folk, square, and social dancing.

Rationale: Description change more accurately reflects course content. Accurately defines course credit

Effective date: Fall 2012

18. Modify the credit and the description for the following course:

PEBC 1551 BASIC BALLET ~~0-2-1~~ **0-1-1**

Description: A review of ~~b~~ **Basic** ballet **techniques**, steps, exercises, and stretches. Emphasis on body placement **position** and practice in using steps in combinations.

Rationale: Description change more accurately reflects course content. Accurately defines course credit

Effective date: Fall 2012

19. Modify the credit and the description for the following course:

PEBC 1552 INTERMEDIATE BALLET ~~0-2-1~~ **0-1-1**

Description: Advanced **instruction in ballet** techniques and knowledge; refinement of ballet skills.

Rationale: Description change more accurately reflects course content. Accurately defines course credit

Effective date: Fall 2012

20. Modify the credit and the description for the following course:

PEBC 1580 JAZZ DANCING

~~0-2-1~~ **0-1-1**

Description: **Fundamental techniques and choreography in M**modern, lyrical, and hip hop forms of jazz.; ~~including fundamental techniques and choreography.~~

Rationale: Change improves the way the description reads. Accurately defines course credit

Effective date: Fall 2012**21. Modify the credit and the description for the following course:**

PEBC 1601 BEGINNING GOLF

~~0-2-1~~ **0-V-1**

Description: Basic **instruction in rules, skills, and strategies** techniques and ~~instruction~~ for the beginning golfer. ~~Minimum of 9 holes of golf must be played outside of class at student's expense.~~ **An additional fee is required.** Must provide own transportation **for each class meeting.**

Rationale: Description change more accurately reflects course content. Accurately defines course credit

Effective date: Fall 2012**22. Modify the credit and the description for the following course:**

PEBC 1602 INTERMEDIATE GOLF

~~0-2-1~~ **0-V-1**

Prerequisite: PEBC 1601 or permission of instructor

Description: Review and refinement of beginning skills, **strategies, and** etiquette, ~~and strategies~~ of golf. **An additional fee is required.** Must provide own transportation **for each class meeting.**

Rationale: Description change more accurately reflects progression of course content. Accurately defines course credit

Effective date: Fall 2012**23. Modify the credit and description for the following course:**

PEEC 3120 COACHING FOOTBALL

~~2-0-2~~ **2-V-2**

Description: Instruction and practice in fundamental skills and team play, **emphasizing methods and drills.** Minimum of two games must be scouted at student's expense.

Rationale: Accurately defines course credit. Description change more accurately reflects course content in a concise narrative.

Effective date: Fall 2012**24. Modify the credit and description for the following course:**

PEEC 3130 COACHING BASKETBALL ~~2-0-2~~ 2-V-2

Description: Instruction and practice in fundamental skills and team play, emphasizing methods and drills ~~used by leading coaches~~. Minimum of two games must be scouted at student's expense.

Rationale: Accurately defines course credit. Description change more accurately reflects course content.

Effective date: Fall 2012

25. Modify the credit and description for the following course:

PEEC 3140 COACHING BASEBALL ~~2-0-2~~ 2-V-2

Description: Instruction and practice in fundamental skills and team play, emphasizing methods and drills ~~used by leading coaches~~. Minimum of two games must be scouted at student's expense.

Rationale: Accurately defines course credit. Description change more accurately reflects course content.

Effective date: Fall 2012

26. Modify the credit and description for the following course:

PEEC 3150 COACHING VOLLEYBALL AND SOCCER ~~3-0-2~~ 2-V-2

Description: Rules and fundamental skills of volleyball and soccer, ~~and with~~ individual development and application of ~~successful~~ coaching methods.

Rationale: Accurately defines course credit. Description change more accurately reflects course content.

Effective date: Fall 2012

27. Modify the credit, prerequisites, and description for the following course:

PEEC 3200 HEALTH AND PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER ~~2-0-2~~ 2-V-2

Prerequisites: Admission ~~into to~~ Candidacy in the ~~Department of Childhood and Exceptional Education~~ College of Education, EDUC 3100

Description: Theory and current practice in the teaching of health and physical education at ~~the~~ elementary school level. A ~~including a directed~~ field experience is **required**.

Rationale: Accurately defines course credit. Prerequisite change allows for consistency of wording with College of Education courses. EDUC 3100 is no longer a prerequisite. Description change clarifies course content.

Effective date: Fall 2012

28. Modify the credit, title, and prerequisite for the following course:

PEEC 4130 ~~SPECIAL TOPICS RESEARCH METHODS IN PHYSICAL EDUCATION~~ ~~3-0-3~~ 2-0-2

Prerequisite: ~~open to majors in health and physical education~~ **Admission into candidacy in the College of Education**

Description: Research methods in health and physical education.

Rationale: Accurately defines course credit as a health and physical education elective. Prerequisite change allows for consistency of wording with the College of Education courses.

Effective date: Fall 2012

29. Modify the following program of study:**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN SPANISH WITH TEACHER CERTIFICATION**

C. Pedagogy Courses 32 hours

EDUC 2130 – Exploring Learning and Teaching

EDUC 3100 – Technology Applications for Teachers

EDUC 3200 – Curriculum, Instruction, and Assessment

EDUC 3300 – Educating Students with Disabilities in the General Education Classroom

~~EDUC 3400 – Classroom Management Strategies~~

MGSE 3400 Classroom Management Strategies

SPAN 3750 – Internship I – Pre-Student Teaching

SPAN 4750 – Internship II – Student Teaching (12 semester hours)

SPAN 5442U – Content and Methods Spanish Education

Rationale: The course EDUC 3400 has been deleted . It has been replaced by the new course, MGSE 3400 Classroom Management Strategies. Since EDUC 3400 will no longer be offered, it is necessary to replace it in this teacher certification program of study. This action has been approved by the program coordinator, Dr. Ellen Blossman.

Effective date: Fall 2012

30. Modify the following program of study:**PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN MATHEMATICS WITH TEACHER CERTIFICATION**

C. Related Field Courses 38 hours

EDUC 2110 Investigating Critical and Contemporary Issues in Education

EDUC 2120 Exploring Socio-Cultural Perspectives on Diversity in Education Contexts

EDUC 2130 Exploring Learning and Teaching

EDUC 3100 Technology Applications for Teachers

EDUC 3200 Curriculum, Instruction, and Assessment

EDUC 3300 Educating Students with Disabilities in the General Education Classroom

~~EDUC 3400 – Classroom Management Strategies~~

MGSE 3400 Classroom Management Strategies

MATH 3750 Internship I – Pre-Student Teaching
 MATH 4750 Internship II – Student Teaching (12 semester hours)
 MATH 5412U - Secondary School Curriculum and Methods, Mathematics

Rationale: The course EDUC 3400 has been deleted . It has been replaced by the new course, MGSE 3400 Classroom Management Strategies. Since EDUC 3400 will no longer be offered, it is necessary to replace it in this teacher certification program of study. This action has been approved by the Head of the Mathematics Department, Dr. Lorrie Hoffman.

Effective: Fall 2012

31. Delete the following courses:

PEEC 3340 WATER SAFETY INSTRUCTOR
PEEC 3330 LIFEGUARD TRAINING
PEEC 2000 SAFETY, FIRST AID AND CPR
PEEC 3000 TAP DANCE
PEHM 3010 INTRAMURAL AND RECREATIONAL PROGRAMS
PEHM 3100 Outdoor Lifetime Activities
PEEC 2180 OFFICIATING TEAM SPORTS

Rationale: Course prefixes are being changed to correctly identify the courses per Board of Regents definitions. Course numbers are being changed to fit number progressions in the proper field categories.

Effective date: Fall 2012

32. Create the following course:

PEBC 1310 WATER SAFETY INSTRUCTOR **2-V-2**
Description: **Methods of teaching infant and pre-school aquatics, the seven levels of “learn to swim program,” as well as community water safety, ICT and safety training for swim coaches. Must be at least 17 years old and have Level VI swim skills.**

Rationale: Change in the course prefix identifies the course as meeting the physical education/health requirement as defined by the Board of Regents. The course number was assigned based on a number progression following intermediate swimming. Accurately defines course credit.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 2

Grading Mode: Normal

Instruction Type: Lecture and Lab

Course Equivalent: PEEC 3340

33. Create the following course:

PEBC 1390 LIFEGUARD TRAINING

1-V-2

Description: Recognizing and preventing injuries, rescue skills, CPR/AED/first aid, and pool health, sanitation, and management.

Rationale: Change in the course prefix identifies the course as meeting the physical education/health requirement as defined by the Board of Regents. The course number was assigned based on a number progression following all aquatic courses. Accurately defines course credit. Description change more accurately reflects course content in a concise narrative.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 2

Grading Mode: Normal

Instruction Type: Lecture and Lab

Course Equivalent: PEEC 3330

34. Create the following course:

PEBC 1400 SAFETY, FIRST AID AND CPR

1-V-1

Description: The American Red Cross course in “First Aid/CPR/AED for the Workplace, Schools, and the Community.” Knowledge and skills necessary to recognize and provide basic care for injuries and sudden illnesses until advanced medical personnel arrive. Administrative fee paid to American Red Cross for proof of certification.

Rationale: Change in the course prefix identifies the course as meeting the physical education/health requirement as defined by the Board of Regents. The course number was assigned based on a number progression following the lifeguard training course. Accurately defines course credit. Description change more accurately reflects course content.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 1

Grading Mode: Normal

Instruction Type: Lecture and Lab

Course Equivalent: PEEC 2000

35. Create the following course:**PEBC 1585 TAP DANCE****0-1-1**

Description: Designed to teach the most frequently used step combinations in choreographed tap dance routines. Performance of one or more routines required. Students required to provide own tap shoes.

Rationale: Change in the course prefix identifies the course as meeting the physical education/health requirement as defined by the Board of Regents. The course number was assigned based on a number progression of dance courses. Description change improves the way the description reads.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 1

Grading Mode: Normal

Instruction Type: Lab

Course Equivalent: PEEC 3000

36. Create the following course:**PEEC 3010 INTRAMURAL AND RECREATIONAL PROGRAMS****2-V-2**

Description: Designed to prepare teachers to organize and administer intramural and recreational activities for grade schools, colleges, and community programs. A field experience is required.

Rationale: Change in the course prefix identifies the course as a health and physical education program elective. Accurately defines course credit as a field experience is required. There is no prerequisite for the course. Description change reflects course content.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 2

Grading Mode: Normal

Instruction Type: Lecture and Lab

Course Equivalent: PEHM 3010

37. Create the following course:**PEEC 3100 Outdoor Lifetime Activities****2-V-2**

Description: Instruction in techniques, safety practices, rules, strategies, and equipment necessary for instruction in outdoor activities. Field trips to allow student participation in select activities. Student must provide his/her own transportation for each field trip. Additional fees may be required.

Rationale: Change in the course prefix identifies the course as a health and physical education program elective. There is no prerequisite for the course. Description change more accurately reflects course content.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 2

Grading Mode: Normal

Instruction Type: Lecture and Lab

Course Equivalent: PEHM 3100

38. Create the following course:

PEEC 3180 OFFICIATING TEAM SPORTS

2-V-2

Description: Rules, mechanics, and ethics involved in officiating a variety of team sports. Students must provide own equipment appropriate to the sports and own transportation for off-campus assignment.

Rationale: Change in number reflects progression of coaching courses. Accurately defines course credit. Description change accurately reflects course content.

Effective date: Fall 2012

CURCAT:

Major Department: AAED

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 2

Grading Mode: Normal

Instruction Type: Lecture and Lab

Course Equivalent: PEEC 2180

B. Childhood and Exceptional Student Education (no items)

II. College of Health Professions (no items)

III. College of Liberal Arts (no items)

IV. College of Science and Technology

A. Biology

1. Create the following course:

BIOL 4470 Sea Turtle Biology

3-0-3

Prerequisite: BIOL 3020 (minimum grade of C) or BIOL 3750 (minimum grade of C) or permission of instructor

Description: Course topics include vertebrate anatomy, embryology, migration, population genetics, conservation and management of sea turtles and other threatened or endangered species.

Rationale: With the development of the marine biology track within the major, Sea Turtle Biology would be a good addition to the course offerings from which students can select. Sea turtles are native to the Georgia coast but range worldwide. Understanding the challenges of managing endangered species is relevant in many applied fields of biology. The class is taught from a scientific perspective. The course has been offered as a special topics (BIOL 4970) class in Spring 2005, 2007, 2010 and will be offered again in 2012. It has always met or exceeded capacity and has enrolled Savannah State students. This course is expected to be offered every other spring.

Effective Term: Fall 2012

CURCAT:

Major Department: Biology

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: none

2. Create the following course:

BIOL 4230 Neurophysiology

3-0-3

Prerequisite: BIOL 2081 (minimum grade of C) or BIOL 4210 (minimum grade of C) or BIOL 4200 (minimum grade of C) or BIOL 4220 (minimum grade of C)

Description: Investigates the functional anatomy of the nervous system with a discussion of its common diseases/disorders. Information on the neurologic exam as applied to the regions of the nervous system will be covered.

Rationale: This course was offered in Spring 2011 with an enrollment of 22 students. In addition to Biology majors, this course would be of interest to students who plan to apply to health professions (medical, dental, pharmacy, physician's assistant, nursing and other health professions). This course should be of interest to those students who will have to perform or interpret the findings of a neurologic exam on a patient in their professional careers. This course is expected to be offered once every two years.

Effective Term: Fall 2012

CURCAT:

Major Department: Biology

Can course be repeated for additional credit? No

Maximum Number of Credit Hours: 3

Grading Mode: Normal

Instruction Type: Lecture

Course Equivalent: none

3. Delete the following course:

BIOL 3580 HISTOLOGICAL TECHNIQUE ~~_____~~ **1-8-4**

Rationale: This course was taught by a faculty member who retired two years ago. This specialized course requires an expertise that is not expected to be replaced.

Effective Term: Fall 2012

4. Modify the following program of study:

Track I: General Biology

B. Major Field Courses 35-40 hours

Required Courses (16 hours)

BIOL 2020- Survey of the Kingdoms Plantae and Fungi

BIOL 3000- Cell Biology

BIOL 3700- Genetics

BIOL 4700- General Ecology

BIOL 4801- Senior Seminar in General Biology

Elective Courses (19-24 hours)

Choose one of the following:

BIOL 4150- Plant Physiology

BIOL 4200- Mammalian Physiology

BIOL 4210- Comparative Physiology

Choose one of the following:

BIOL 3470- Environmental Restoration

BIOL 3600- Salt Marsh Ecology

BIOL 4320- Environmental Microbiology

BIOL 4460- Phytoplankton Ecology

BIOL 4750- Tropical Field Biology

Choose two of the following:

BIOL 3520- Medical Microbiology

BIOL 4000- Cancer Biology

BIOL 4010- Evolution

BIOL 4100- Cell and Molecular Biology Laboratory

BIOL 4220- Endocrinology

BIOL 4230 Neurophysiology

BIOL 4310- Applied Microbiology
 BIOL 4400- Virology
 BIOL 4500- Bioinformatics and Biotechnology
 BIOL 4510- Molecular Development
 BIOL 4650- Immunology

Choose two of the following:

BIOL 3020- Vertebrate Zoology
 BIOL 3150- Horticulture
 BIOL 3200- Taxonomy and Identification of Flowering Plants
 BIOL 3300- Entomology
 BIOL 3310- Invertebrate Zoology
 BIOL 3750- Natural History of Vertebrate Animals
 BIOL 3770- Developmental and Comparative Anatomy of the Vertebrates
 BIOL 3800- Mycology
 BIOL 3920- Parasitology
BIOL 4470 Sea Turtle Biology
 BIOL 4550- Biology of Marine Organisms
 BIOL 4600- Ichthyology

C. Related Field Course 1 hour

CHEM 2101L- Organic Chemistry I Lab

D. Electives 19-24 hours

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

Track II: Marine Biology

B. Major Field Courses 35-36 hours

Required Courses (20 hours)

BIOL 2020- Survey of the Kingdoms Plantae and Fungi
 BIOL 3000- Cell Biology
 BIOL 3700- Genetics
 BIOL 4700- General Ecology
 BIOL 4550- Biology of Marine Organisms
 BIOL 4802- Senior Seminar in Marine Biology

Elective Courses (15-16 hours)

Choose one of the following:

BIOL 4150- Plant Physiology
 BIOL 4200- Mammalian Physiology
 BIOL 4210- Comparative Physiology

Choose one of the following:

BIOL 3020- Vertebrate Zoology
 BIOL 3310- Invertebrate Zoology
 BIOL 3750- Natural History of Vertebrate Animals

Choose two of the following:

BIOL 4320- Environmental Microbiology
 BIOL 3200- Taxonomy and Identification of Flowering Plants
BIOL 4470 Sea Turtle Biology

- BIOL 4460- Phytoplankton Ecology
 - BIOL 4750- Tropical Field Biology
 - BIOL 4600- Ichthyology
 - C. Related Field Courses 9 hours
 - CHEM 2101L- Organic Chemistry I Lab
 - PHYS 1111K- Introductory Physics I or PHYS 2211K- Principles of Physics I
 - MATH 1161- Calculus I (If taken in core area A, then substitute with either MATH 2072;
PHYS 1112K or PHYS 2212K)
 - D. Electives 15-16 hours
- Select free electives to bring total of 3000+ course work to at least 39 hours.

Track III: Cell and Molecular Biology

- B. Major Field Courses 26-29 hours

Required Courses (13 hours)

- BIOL 3000- Cell Biology
- BIOL 3700- Genetics
- BIOL 4100- Cell and Molecular Biology Laboratory
- BIOL 4500- Bioinformatics and Biotechnology
- BIOL 4803- Senior Seminar in Cell and Molecular Biology

Elective Courses (13-16 hours)

Choose one of the following:

- BIOL 4150- Plant Physiology
- BIOL 4200- Mammalian Physiology
- BIOL 4210- Comparative Physiology

Choose one of the following:

- BIOL 3020- Vertebrate Zoology
- BIOL 3300- Entomology
- BIOL 3310- Invertebrate Zoology
- BIOL 3750- Natural History of Vertebrate Animals
- BIOL 3800- Mycology
- BIOL 3920- Parasitology

Choose two of the following:

- BIOL 3520- Medical Microbiology
- BIOL 4000- Cancer Biology
- BIOL 4010- Evolution
- BIOL 4220- Endocrinology
- BIOL 4230 Neurophysiology**
- BIOL 4310- Applied Microbiology
- BIOL 4320- Environmental Microbiology
- BIOL 4400- Virology
- BIOL 4510- Molecular Development
- BIOL 4650- Immunology

- C. Related Field Courses 16 hours

- CHEM 2101L- Organic Chemistry I Lab
- CHEM 2102/2102L- Organic Chemistry II
- CHEM 3801- Biochemistry

PHYS 1111K- Introductory Physics I or PHYS 2211K- Principles of Physics I
 PHYS 1112K-Introductory Physics II or PHYS 2212K- Principles of Physics II

D. Electives 15-18 hours

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

Total Semester Hours 123 hours

E. Regents' Test and Exit Exam

Effective Term: Fall 2012

B. Chemistry & Physics

1. Modify the Pre-requisite:

PHYS 2212K Principles of Physics II

Prerequisite: PHYS 2211K (minimum grade of C) and MATH 2072 (**Minimum grade of C**)

Rationale: The math expectation for the second calculus based physics course is a working proficiency with the second calculus in the sequence which is at the C or better grade level.

Effective Term: Fall 2012

C. Computer Science and Information Technology

1. Modify the following course:

WBIT 1100 INTRODUCTION TO INFORMATION TECHNOLOGY 3-0-3

Prerequisites: None

Description: This course is an introductory course in information technology. Topics include foundations in hardware, software, data and an overview of the use of information technology in organizations. **Additional topics** Topics include structured programming techniques, systems development, database design and networking, with an emphasis on appropriate business ethics, interpersonal skills and team building

Rationale: The WebBSIT Operating Board has changed the course description for this course in their August 5, 2011 Operating Board meeting.

Effective Term: Fall 2012

2. Modify the following course:

WBIT 2000 THE ENTERPRISE AND INFORMATION TECHNOLOGY 3-0-3

Prerequisites: ~~WBIT 1100~~ **Prior or concurrent enrollment with a minimum grade of "C" in WBIT 1100**

Rationale: The WebBSIT Operating Board has changed the Pre-requisite for this course in their May 19-20, 2011 Operating Board spring meeting.

Effective Term: Fall 2012**3. Modify the following course:**

WBIT 3110 SYSTEM ANALYSIS AND DESIGN

3-0-3

Prerequisites: WBIT 1310, WBIT 2000

Description: **This course introduces** ~~Introduces~~ the fundamental principles of the design and analysis of IT applications. In this course, students will learn to apply the tools and techniques commonly used by systems analysts to build and document IT applications. Classical and structured tools for describing data flow, data structure, process flow, file design, input and output design, and program specification will be studied, as will object-oriented techniques.

Rationale: The WebBSIT Operating Board has changed the course description in their August 5, 2011 meeting.

Effective Term: Fall 2012**4. Modify the following course:**

WBIT 3400 INTRODUCTION TO DIGITAL MEDIA

3-0-3

Prerequisites: WBIT 1100

Description: This course covers the basic design principles and tools for creating and editing digital media elements ~~components used in web-based systems; use of tools to create and edit graphics, sounds, and animations to be used in digital media presentations~~. Examples of **these elements** include graphics, animation, audio, video, virtual space and simulation.

Rationale: The WebBSIT Operating Board has requested to change the course description for this course in their August 5, 2011 Operating Board meeting.

Effective Term: Fall 2012**5. Modify the following course:**

WBIT 4520 INFORMATION ASSURANCE AND SECURITY

3-0-3

Prerequisite: WBIT 3500

Pre- or Co-requisite: WBIT 3510

Description: This course is an introduction to information assurance and security in computing. Topics include computer, network (distributed) system and cyber security, digital assets protection, data backup and disaster recovery, encryption, cryptography, computer virus, firewalls, terrorism and cyber crimes, legal, ethical and professional issues, risk management, information security design, implementation and maintenance. ~~Note: If a student is taking WBIT 3510 as a co-requisite and subsequently withdraws from WBIT 3510, the student must also withdraw from WBIT 4520.~~

Rationale: The WebBSIT Operating Board has requested to change the course description for this course in their August 5, 2011 Operating Board meeting.

Effective Term: Fall 2012

D. Engineering Studies

1. Modification to the Associate of Science:

- Replace one of the laboratory science courses in the Additional requirements (section B) with up to 3 hours of ENGR courses at the 2000 or 3000 level.
- Adjust the hours of the program from 19 to 18
- Change the number of PE hours from 2 to 3 to better fulfill the Armstrong core
- Fix typo that said that repeated the excess hour from Core D, when it should be Core A.

PROGRAM FOR THE DEGREE OF ASSOCIATE OF SCIENCE

A. General requirements (Core Areas A,B,C,D,E).....	42 hours
In core area A, MATH 1161—Calculus I must be taken	
In core area D, MATH 2072—Calculus II must be taken for the course in mathematics , science , or technology	
In core area D, the laboratory science sequence must be taken from:	
BIOL 1107 or BIOL 1107H /1108—Principles of Biology I/II	
CHEM 1211/1212—Principles of Chemistry I/II	
PHYS 2211K/2212K—Principles of Physics I/II	
Physical Education.....	2 3 hours
B. Additional Requirements	18 19 hours
ENGR 1170 - Engineering Graphics or ENGR 2030 - Introduction to Computer Engineering	
ENGR 1371 - Computing for Engineers or CSCI 1301 - Intro Programming Principles	
Any 6 hours of 2000 or higher-level ENGR courses (excluding ENGR 3960, 4990, 4999)	
One hour excess from Area D A mathematics requirement	
One hour excess from Area D science requirement	
An additional laboratory course two laboratory science courses (not taken in area D of General Requirements) taken from	
BIOL 1107 or BIOL 1107H /1108 – Principles of Biology I/II	
CHEM 1211/1212 (and labs) – Principles of Chemistry I/II	
PHYS 2211K/2212K (and labs) – Principles of Physics I/II	
Total Semester Hours	<hr/> 63

C. Regents test and Exit Exam

Rationale: The completion of 12 credit hours of fundamental engineering courses (as opposed to three) better prepares students to transfer to four year institutions for a BS Engr. degree and provides those seeking immediate employment with broader

engineering knowledge and skills necessary for engineering technicians or field engineers.

Effective Term: Fall 2012

E. Mathematics (no items)

F. Psychology

1. Create the Minor in Neuroscience in collaboration with the College of Health Professions

- | | | |
|-----------|--|--------------------|
| A. | Prerequisite courses from Core | |
| | BIOL 1107 or BIOL 1107H Principles of Biology I | 4 |
| | PSYC 1101 or PSYC 1101H Introduction to Psychology | 3 |
| B. | Minor Field Courses | 15-16 hours |
| | BIOL 2081 Human Anatomy and Physiology I | 4 |
| | or BIOL 4200 Mammalian Physiology | 3 |
| | or BIOL 4210 Comparative Physiology | 3 |
| | 1 Upper-Division College of Science and Technology Course | 3 |
| | chosen from: | |
| | BIOL 4230 Neurophysiology and Disease | |
| | PSYC 3070 Sensation and Perception | |
| | PSYC 3090 Physiological Psychology | |
| | PSYC 3500 Cognitive Psychology | |
| | 1 Upper-Division College of Health Professions Course | 3 |
| | chosen from: | |
| | RHAB 4100 Neuroscience in Rehabilitation Professions | |
| | RHAB 4111 Pathophysiology for the Rehab Prof 1 | |
| | 1 Additional Upper-Division College of Science and Technology | 3 |
| | or College of Health Professions course chosen from: | |
| | BIOL 4230 Neurophysiology and Disease | |
| | PSYC 3070 Sensation and Perception | |
| | PSYC 3090 Physiological Psychology | |
| | PSYC 3500 Cognitive Psychology | |
| | RHAB 4100 Neuroscience in Rehabilitation Professions | |
| | RHAB 4111 Pathophysiology for the Rehab Prof 1 | |
| | 1 Interdisciplinary “Topics in Neuroscience Seminar” | 3 |
| | will alternate yearly between | |
| | PSYC 5020 Special Topics | |

or RHAB 4903 Directed Study in Rehabilitation Science

Rationale: Neuroscience is an interdisciplinary field that combines elements of physiology, chemistry, pathology, behavioral science, and anatomy in the study of the nervous system. It is an expanding area that aims to develop and enrich our understanding of disease and its treatment. Many students have interests in neuroscience and its related fields, and currently there is no sustained program of study for them on our campus. The Departments of Biology, Psychology, and Rehabilitation Sciences already offer courses pertinent to the development of this minor, which allows us to enhance our existing programs without additional demand on our institutional resources. Additionally, there are several members of our faculty who teach and conduct research in this area. Trends in this field suggest that both student interest and faculty investment will continue to expand. To capitalize on our faculty's expertise and to meet the needs of students interested in pursuing graduate work in this area or employment where training in this field is required, we propose this minor to augment our existing programs. Implementing this minor will help us to be competitive in this emerging field. Another positive gain is that it provides the opportunity for us to work in a truly interdisciplinary fashion: the minor will require at least one upper division course both the College of Science and Technology and the College of Health Professions.

Effective Term: Fall 2012

OTHER BUSINESS

ADJOURNMENT