ARMSTRONG ATLANTIC STATE UNIVERSITY

MEMORANDUM

To: University Curriculum Committee

From: Phyllis Panhorst
Catalog Editor and Committee Secretary

Date: January 16, 2009

Re: Agenda – January 21, 2009

The University Curriculum Committee will meet at 3:00 p.m. on Wednesday, January 21 in University Hall 282.

A G E N D A

CALL TO ORDER Rick McGrath

APPROVAL OF MINUTES – August 27, 2008

ITEMS

I. College of Science and Technology

A. Biology

1. Delete the following program of study emphasis:

PROGRAM FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY (Physical Therapy Emphasis)

Rationale: The B.S. degree in Biology with a Physical Therapy Emphasis was originally created for Biology majors who were considered to be on a Pre-Physical Therapy Track. This emphasis allowed students earning a B.S. Degree in Biology to get one year's credit towards a M.S. degree in Physical Therapy (3-3 system) at AASU. The M.S. in Physical Therapy no longer exists. Now, Pre-Physical Therapy students opt to get a B.S. degree in Rehabilitation Sciences rather than Biology.

Effective Term: Fall 2009

B. Chemistry & Physics

1.Change the following course credit content and description:

CHEM 3802 Biochemistry II ~~(2-4-3)~~ **(2-0-2)**

Prerequisite: CHEM 3801 ~~and CHEM 2300~~

Description: Chemistry of cellular components: function and analysis of proteins, ~~function,~~ metabolism and biosynthesis of amino acids and nucleic acids, **DNA replication and repair**, DNA manipulations and recombinant technology, DNA transcription, **RNA** translation, protein ~~synthesis~~ **modification**, and regulation of gene expression. ~~Bioanalytical techniques emphasized in lecture and laboratory.~~

Rationale: Presently, CHEM 3802 has 2 hours lecture and 4 hours of lab per week. The course without the lab was taught under a special topics course number spring 2007, spring 2008, and will be taught in the same way spring 200p to accommodate students who have completed CHEM 3801 and wish to take only the lecture portion of CHEM 3802. The enrollment in this special topics course indicates that there is significant interest in taking the lecture portion of CHEM 3802 without the lab portion. This course discusses DNA, RNA and the latest advancements in the area of molecular biology. In addition, the changes to the course description provide a more detailed description of the lecture topics and remove the reference to the laboratory portion. CHEM 2300 was critical for laboratory component and not lecture. In addition CHEM 2301 is not a prerequisite for CHEM 3801.

Effective Term: Fall 2009

CURCAT:

Major Department: Chemistry and Physics
Repeatable for additional credit: No
Maximum Number of Credit Hours: 2
Grading Mode: Normal
Instructional Type: Lecture

2. Create the following course:

CHEM 3803L Biochemistry Laboratory (0-4-1)
Prerequisite: CHEM 2300
Prerequisite or Corequisite: CHEM 3802
Description: Experiments that utilize and teach advanced biochemistry techniques.

Rationale: The proposed modification to CHEM 3802 to remove the lab component requires that a new course be created to teach biochemistry laboratory techniques. The general course description allows flexibility as biochemistry changes and the department acquires new instrumentation that can be applied to CHEM 3803. CHEM 3803 is a separate number created to be consistent with similar incidents in the College, e.g., BIOL 3010 and PSYC 4001.

Effective Term: Fall 2009

CURCAT:

Major Department: Chemistry and Physics
Repeatable for additional credit: No
Maximum Number of Credit Hours: 1
Grading Mode: Normal
Instructional Type: Lab

3. Change the Program for the Degree of Bachelor of Arts in Chemistry:

Track I: Chemistry

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

Required (20 Hours)
CHEM 2101/2101L - Organic Chemistry I
CHEM 2102/2102L - Organic Chemistry II
CHEM 2300 - Principles of Chemical Analysis
CHEM 3200 - Inorganic Chemistry
CHEM 3401 - Physical Chemistry I
Approved upper-division electives (13 hours) in the major from:
CHEM 3300 Instrumental Analysis
CHEM 3402 Physical Chemistry II
CHEM 3801 Biochemistry I
CHEM 3802 Biochemistry II
CHEM 3803 Biochemistry Laboratory
CHEM 3900 Chemical Research (maximum of 3 credit hours)
CHEM 4100 Advanced Organic Chemistry
CHEM 4200 Advanced Inorganic Chemistry
CHEM 4300 Advanced Analytical Chemistry
CHEM 4400 Advanced Physical Chemistry
CHEM 4500 Chemistry Seminar
CHEM 4940 Special Topics in Chemistry
CHEM 4950 Special Lecture Topics in Chemistry
CHEM 4960 Internship (maximum of 3 credit hours)
CHEM 4991 Advanced Chemical Research (maximum of 3 credit hours)
Transfer credit for similar courses

Track II: Biochemistry

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

Required (30 Hours)
CHEM 2101/2101L - Organic Chemistry I
CHEM 2102/2102L - Organic Chemistry II
CHEM 2300 - Principles of Chemical Analysis
CHEM 3200 - Inorganic Chemistry
CHEM 3401 - Physical Chemistry I
CHEM 3300 Instrumental Analysis

CHEM 3801 - Biochemistry I
CHEM 3802 Biochemistry II
CHEM 3803 Biochemistry Laboratory
Approved upper-division electives (3 hours) in the major from:
CHEM 3402 Physical Chemistry II
CHEM 3900 Chemical Research **– Biochemistry Approved** (maximum of 3 hours)
CHEM 4100 Advanced Organic Chemistry
CHEM 4200 Advanced Inorganic Chemistry
CHEM 4940 Special Topics in Chemistry **– Biochemistry Approved**
CHEM 4950 Special Lecture Topics in Chemistry **– Biochemistry Approved**
CHEM 4960 Internship **– Biochemistry Approved** (maximum of 3 hours)
CHEM 4991 Advanced Chemical Research **– Biochemistry Approved** (maximum of 3 hours)
Transfer credit for similar courses

Rationale: Reflects the proposed lecture / laboratory split in CHEM 3802 Biochemistry II.

Effective Term: Fall 2009

4. Change to the Program for the Degree of Bachelor of Science in Chemistry.

B. Major Field Courses ..... 38 hours
CHEM 2101/2101L - Organic Chemistry I
CHEM 2102/2102L - Organic Chemistry II
CHEM 2300 - Principles of Chemical Analysis
CHEM 3200 - Inorganic Chemistry
CHEM 3300 Instrumental Analysis
CHEM 3401 - Physical Chemistry I
CHEM 3402 - Physical Chemistry II
CHEM 4500 – Chemistry Seminar
Two courses from:
CHEM 3801 – Biochemistry I
CHEM 4100 Advanced Organic Chemistry
CHEM 4200 Advanced Inorganic Chemistry
CHEM 4300 Advanced Analytical Chemistry
CHEM 4400 Advanced Physical Chemistry
Two credit hours from:
CHEM 2700, CHEM 2900, CHEM 3801, CHEM 3802, **CHEM 3803**, CHEM 4100, CHEM 4200, CHEM 4300, CHEM 4400, CHEM 4940, CHEM 4950, CHEM 4960, or 4991/2/3/4

Rationale: Reflects the proposed lecture / laboratory split in CHEM 3802 Biochemistry II.

Effective Term: Fall 2009

5. Modify the pre- or corequisite for CHEM 1010
CHEM 1010 ESSENTIALS OF CHEMISTRY (3-0-3)
Prerequisite or corequisite: ~~MATH 1101~~ ~~OR~~ MATH 1111 or **MATH 1001**

Rationale: MATH 1101 is no longer offered by the math department and MATH 1001 is the accepted alternative.

Effective Term: Fall 2009

C. Computer Science

1. Create the following course:
CSCI 3370 Human Computer Interaction (3 - 0 – 3)
Prerequisite: CSCI 1301 or ITEC 1310 or ENGR 1371
Description: Paradigms in user interface design and related human factors. Topics include: user-system compatibility analysis, techniques for user interface design, methods for interface analysis, multimodal interaction and interaction analysis.

Rationale: Human Computer Interaction (HCI) is a research area of increasingly central significance to computer science, other scientific and engineering disciplines, and an ever expanding array of application domains. This course is designed to help undergraduate students learn to employ user-centered methodologies in the development, evaluation, and deployment of software systems. The course covers areas such as: interaction design and analysis, multimodal interaction, user and task analysis, accessibility standards, and human factors/ergonomics. The course will provide a knowledge bridge towards real world software applications from the human perspective not only for computer science majors but for engineering, information technology and psychology students. The course will count as a free elective under area D.

Effective Term: Fall 2009

CURCAT:
Major Department: Computer Science
Repeatable for additional credit: No
Maximum Number of Credit Hours: 3
Grading Mode: Normal
Instruction Type: Lecture

OTHER BUSINESS

Old Business

1. **UCC Bylaws regarding graduate curriculum.**
2. **Course repeat policy**

ADJOURNMENT