

**Arts & Sciences Curriculum Committee Meeting**  
Report for the Arts & Sciences Curriculum Committee Meeting  
Friday, March 7, 2008

The meeting was called to order at 2:30P.M., in Solms 209. The names of the members present are shown in bold; guests/substitutes are in italic:

**Catherine MacGowan**, *Chemistry & Physics*;  
**Dick Nordquist**, *Liberal Studies*;  
**Richard McGrath**, *Economics*;  
**Jim Todesca**, *History*;  
**Mark Finlay**;  
**Greg Knofczynski** *Mathematics*;  
**Jennifer Zettler**, *Biology*;  
**Teresa Winterhalter**, *Languages, Literature, & Philosophy*;  
**Corie Hammers**, *Criminal Justice, Social & Political Science*  
*Will Lynch*, *Chemistry & Physics*;

*Minutes of February 1, 2008 were approved.*

I. College of Arts and Sciences

- A. Liberal Studies
- B. Art, Music, & Theatre
- C. Biology

1. **Create the following course.**

**BIOL 3600 Salt Marsh Ecology** **3-3-4**

**Prerequisites: BIOL 1108 and BIOL 2020**

**Description: Covers the abiotic and biotic factors of salt marshes. Topics may cover algal blooms, plant dormancy, marsh die-off, contaminant and pollutant impacts, habitat loss, and marsh conservation.**

Rationale: This course is currently taught as a special topics course. Students taking this course will become aware of the importance of salt marshes and how they benefit humans financially, socially, recreationally, and historically. They will learn the interconnectedness of the organisms that are found in salt marshes, not only from the local southeastern US, but also from locations throughout the world. This course will be offered as a Category 3 biology elective and will include a laboratory.

**Effective Term: Fall 2008**

**CURCAT:**

**Major Department: Biology**  
**Can course be repeated for additional credit: No**  
**Maximum number of Credit Hours: 4**  
**Grading Mode: Normal**  
**Instruction Type: Norm**

2. **Modify the following course:**  
BIOL 4460 ~~Estuarine Plant Ecology~~ **Phytoplankton Ecology**

Rationale: This name change differentiates the newly-created course Salt Marsh Ecology from Phytoplankton Ecology which had been called Estuarine Plant Ecology. The Salt Marsh Ecology course looks at higher plants whereas the Phytoplankton Ecology class focuses on the estuarine protists.

**Effective Term: Fall 2008**

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

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

**Category 2: Botany**

BIOL 3150 - Horticulture  
BIOL 3200 - Taxonomy and Identification of Flowering Plants  
BIOL 3230 - Anatomy of the Seed Plants  
BIOL 4150 - Plant Physiology  
BIOL 4450 - Morphology of Vascular Plants  
BIOL 4460 - ~~Estuarine Plant Ecology~~ **Phytoplankton Ecology**

**Category 3: Other**

BIOL 3300 - Entomology  
BIOL 3310 - Invertebrate Zoology  
BIOL 3410 - Fundamentals of Nutrition  
BIOL 3470 - Environmental Restoration  
BIOL 3580 - Histological Technique  
**BIOL 3600 - Salt Marsh Ecology**  
BIOL 3750 - Natural History of Vertebrate Animals  
BIOL 3770 - Developmental and Comparative Anatomy of the Vertebrates  
BIOL 3920 - Parasitology  
BIOL 4010 - Evolution  
BIOL 4210 - Comparative Physiology  
BIOL 4220 - Endocrinology  
BIOL 4320 - Environmental Microbiology  
BIOL 4550 - Biology of Marine Organisms  
BIOL 4750 - Tropical Field Biology  
BIOL 4910, -20 - Research I and II (only one research course may be counted as a major elective)  
BIOL 4950, -60 - Internship I and II (only one internship may be counted as a major elective)  
BIOL 4970 - Special Topics (only two special topics may be counted as major electives)

Rationale:

**Effective Term: Fall 2008**

- D. Chemistry & Physics

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

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN 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 3900 Chemical Research (**maximum of 3 credit hours**)

CHEM 4100 Advanced Organic Chemistry

CHEM 4200 Advanced Inorganic Chemistry

CHEM 4300 - Advanced Instrumental Analysis

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

Rationale: an unintended consequence of the program of study in the BA degree program in chemistry was that students could take multiple hours of either research or internship credit to graduate. The department would like to make certain that students take a broad spectrum of courses to support their program of study.

**Effective Term: Fall 2008**

**2. Modify the following program of study by adding a new track.**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN CHEMISTRY**

**BIOCHEMISTRY TRACK**

**Track I: General Chemistry**

(see catalog)

**Track II: Biochemistry**

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN CHEMISTRY-BIOCHEMISTRY TRACK**

**A. General Requirements**

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

Chemistry majors are required to take MATH 1113 in Core Area A and MATH 1161 in Core Area D

**Area F ..... 18 hours**

CHEM 1211/1211L, 1212/1212L - Principles of Chemistry I, II (unless taken to satisfy Area D, in which case replace with 8 hours of lower division electives)

Choose one sequence from:

PHYS 1111/1111L - Introductory Physics I and PHYS 1112/1112L - Introductory Physics II or PHYS 2211/2211L - Principles of Physics I and PHYS 2212/2212L - Principles of Physics II	
One hour excess for MATH 1161 from Core Area D	
One hour lower division approved elective	
<b>Physical Education</b> .....	<b>3 hours</b>
<b>B. Major Field Courses</b> .....	<b>33 hours</b>
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	
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	
<b>C. Related Field Courses</b> .....	<b>18 hours</b>
BIOL 1107/1107L (4)	
BIOL 1108/1108L (4)	
BIOL 2500 Principles of Modern Biology (2) (Note: One Hour counted in Area F)	
BIOL 3010 Modern Biology Lab (1)	
BIOL 3000 Cell Biology (4)	
One course selected from:	
BIOL 3700 Genetics (4)	
BIOL 3530 Immunology (4)	
BIOL 4090 Molecular Biology (4)	
<b>D. Electives</b> .....	<b>9 hours</b>
9 hours of upper-division courses	

Rationale: The biochemistry track is a specific route for students to earn a BA degree in chemistry taking courses that emphasize biochemistry. The classes chosen are similar to those at other universities that have a biochemistry track or degree. The purpose of the biochemistry track is two fold. First, there has been increased pressure from the state to increase STEM (Science, Technology, Engineering, and Math) graduates. We believe that offering an AASU Chemistry degree with a focus in biochemistry would attract students from the southeast Georgia region addressing the STEM initiative. Secondly, the field of biochemistry is one of the fastest growing areas of science. The city of Savannah is also growing in this area as a pharmacy school (opened fall 2003), a cancer research center (opened fall 2006), and a medical school (opens fall 2008) has made its home here. We believe it is important for AASU to provide students who are formally trained in biochemistry to address this local need.

**Effective Term: Fall 2008**

**3. Change the following course description:**

CHEM 3401 PHYSICAL CHEMISTRY I 3-4-4

Prerequisite: CHEM 2300 and MATH 1161

Prerequisite or Corequisite: PHYS 1112/1112L or PHYS 1212/2212L

Description: Fundamentals of physical chemistry: gas laws, heat and work, and laws of thermodynamics; material and reaction equilibrium and standard thermodynamic functions; single and multi-component phase equilibria; **reaction kinetics**. Analytical applications of physical chemistry emphasized through lab investigations.

Rationale: Reaction kinetics is a fundamental and important area of physical chemistry. By placing it in CHEM 3401, many of our BA students who would otherwise not take CHEM 3402 would be exposed to this topic.

**Effective Term: Fall 2008**

**4. Change the following course description:**

**CHEM 3402 Physical Chemistry II** 3-4-4

Prerequisite: CHEM 3401

Description: Continuation of CHEM 3401. Fundamentals of physical chemistry: gas laws, heat and work, and laws of thermodynamics; material and reaction equilibrium and standard thermodynamic functions; single and multi-component phase equilibria; **reaction kinetics**. Analytical applications of physical chemistry emphasized through lab investigations.

Rationale: Reaction kinetics is a fundamental and important area of physical chemistry. By placing it in CHEM 3401, many of our BA students who would otherwise not take CHEM 3402 would be used to this topic.

**Effective Term: Fall 2008**

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

PHYS 3400 Chemical Thermodynamics (~~3-3-4~~) **(3-0-3)**

Prerequisite: CHEM 1212 and MATH 2072 and **either PHYS 1112 or PHYS 2212**

Description: Continuation of CHEM 3401. Fundamentals of physical chemistry: gas laws, heat and work, and laws of thermodynamics; material and reaction equilibrium and standard thermodynamic functions; single and multi-component phase equilibria; **and reaction kinetics**. ~~Practical application of these fundamental principles of physical chemistry in the laboratory.~~

Rationale: Because CHEM 3401 and PHYS 3400 cover the same material, we would like to offer a single course under both numbers. CHEM 3401 is listed as 3-4-4 and has CHEM 2300 (Analytical Chemistry, where lab techniques are refined) as a pre-requisite. Changing PHYS 3400 to eliminate the lab will allow students to attend the CHEM 3401 lecture without taking the associated lab, which would eliminate the need for the physics students to have taken CHEM 2300. This will eliminate duplication in our departmental catalog and provide a way to uncouple the lecture and laboratory portions of Physical Chemistry.

Additionally, the pre-requisite change will allow the substitution of PHYS 1112 for PHYS 2212. The MATH 2072 pre-requisite already demands that students have the appropriate level of mathematical ability for the course.

**Effective Term: Fall 2008**

**6. Change the following course name and prerequisite:**

CHEM 3100 ~~Chemical Forensics~~ **Forensic Chemistry (3-4-4)**  
Prerequisite: ~~eligibility for MATH 1111 and 3 semesters of a lab-science~~ **CHEM 1212**

Rationale: The current design of the course is ineffective. In a typical class you have students that are senior chemistry majors and you also have students who have never taken CHEM 1211. It makes it difficult on the instructor to teach this course at the appropriate level. In addition, the laboratory must be oversimplified because some students do not have the laboratory skills to perform the experiments. This can also represent a safety hazard. Adding a pre-requisite chemistry course such as CHEM 1212 assures a minimum level of preparedness for a chemistry course. It also allows a higher level course to be designed which will better prepare students for careers as forensic chemists. The name change also goes along with making this a “chemistry” course and not a general interest/science course.

**Effective Term: Fall 2008**

E. Criminal Justice, Social, & Political Science

1. **Create the Following Course:**  
**SOCI 3360/POLS 3360 - Social Theory** **3-0-3**  
**Prerequisites: SOCI 1101 or POLS 2100**  
**Description: Introduction to sociological theory from the classical to the contemporary. Major theoretical fields, theorists, and issues are covered.**

Rationale: This course will introduce students to sociological theory, both classical and contemporary. Students will be introduced to the seminal figures in the construction of social theory, and become familiar with the major theorists, concepts, and perspectives of modern sociological theory and reasoning. Beyond providing students with the theoretical foundation of the discipline of sociology, this course will contribute to the Political Theory offerings for the Political Science major.

**Effective Term: Fall 2008**

**CURCAT:**

**Major Department: CJSPS**

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

**Maximum number of Credit Hours: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

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

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN POLITICAL SCIENCE**

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

Eleven courses from the following with at least one course from each area:

**Political Theory**

POLS 3320 - American Political Thought

POLS 3340 - Politics and Ideology in Contemporary Europe

POLS 3350 - Classics of Political Thought

**SOCI 3360/POLS 3360 - Social Theory**

POLS 3990 – Special Topics in Political Science

POLS 4300 - Religion and Political Thought

POLS 5100U - Politics and the Visual Arts

POLS 5535U - Public Leadership and Ethics in Theory and Practice

Rationale: New course serves curriculum in political and social theory.

**Effective Term: Fall 2008**

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

**PROGRAM FOR THE DEGREE OF BACHELOR OF ARTS IN LAW AND SOCIETY**

**Track Three: Social Theory and Philosophy**

CRJU 3110 - Critical Theories of Criminal Justice

ENGL 5815U - Literary Theory

GWST 5700U - Perspectives in Feminist Theory

PHIL 3150 - 20<sup>th</sup> Century Philosophy  
PHIL 3200 - Technology, Society, and Human Values  
PHIL 3330 - Philosophy of Religion  
POLS 3320 - American Political Thought  
POLS 3350 - Classics of Political Thought  
**SOCI/POLS 3360 – Social Theory**  
PSYC 3030 - Experimental Social Psychology  
PSYC 5150U - Conflict Resolution  
SOC 3150 - Sociology of the Family

Rationale: New course serves curriculum in political and social theory

**Effective Term: Fall 2008**

**4. Modify the following minor:**

Political Science ..... 15 hours

**Political Theory:** POLS 3320, POLS 3350, **SOCI/POLS 3360**, POLS 4300

Rationale: New course serves curriculum in political and social theory

**Effective Term: Fall 2008**

**5. Modify the following progress requirements:**

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**CRIMINAL JUSTICE, SOCIAL AND POLITICAL SCIENCE**

**Progress Requirements**

All department majors must earn a C or better in all courses ~~taken in their discipline~~ used to complete Area F in the core, the major field and all required courses. ~~and are required to take an exit examination (the Major Field Test for their respective field) prior to graduation.~~ All majors are also required to take an exit examination (the Major Field Test for their respective field) prior to graduation. All courses in the minor also require a C or better.

Rationale: This change in grade requirement demonstrates the importance that students develop a basic mastery of statistics in order to improve their performance in the department's research methods courses, CRJU 3100 and POLS 4950. This change in grade requirement also clarifies the confusion regarding our Area F courses and Related Field Courses by making our expectations clear and consistent across both majors (Criminal Justice and Political Science). Furthermore, this change in grade requirement raises our academic standards by no longer permitting students to graduate with a D in MATH 2200 in Area F, thereby setting our requirements on a par with other departments in the College of Arts and Sciences.

**Effective Term: Fall 2008**

- F. Economics
- G. History
- H. Languages, Literature, and Philosophy



**1. Create the following course:**

**ENGL 5280U/G Literature and the Environment 3-0-3**

**Prerequisite: ENGL 2100, or permission of department head**

**Graduate Prerequisite: Prerequisite: permission of instructor**

**Description: An examination of representations of the environment in literature and theory. Readings in ecological literary criticism as well as fiction and literary nonfiction from various world areas and historical periods. Graduate students will be required to do an additional research paper or project**

Rationale: Eco-criticism is a rapidly expanding area of concentration in the field of literary studies. Adding it to our course offerings will enable our English majors to pursue a degree that is consistent with national and international trends in their field. This course will also augment the university's course offerings that center around the need to produce graduates conversant with the complicated issues that construct our environmental awareness.

**Effective Term: Fall 2008**

**CURCAT**

**Major Department: LLP**

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

**Maximum number of credit hours: 3**

**Grading Mode: Normal**

**Instruction Type: Lecture**

**I. Mathematics**

**1. Modify the following course:**

**MATH 3932 Mathematical Reasoning and Representation**

**~~2-2-3~~ 3-0-3**

Rationale: Since the new standards (NCATE, PSC, NCTM etc.) were passed, lab time is not required and all activities on the critical assignment list can be covered without the lab hours.

**Effective Term: Fall 2008**

**2. Delete the following course:**

**~~MATH 4964 Practicum in Teaching Mathematics v-v-(1-3)~~**

Rationale: With the addition of MATH 3750 Internship I – Pre-Student Teaching and MATH 4750 Internship II- Student Teaching this course is no longer needed and will not be offered or taught.

**Effective Term: Fall 2008**

**3. Modify the following course of study requirements:**

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

**Progress Requirements**

To earn the bachelor's degree in the mathematical sciences, students must complete all mathematics and ~~computer science~~ **statistics** courses required in the program of study **and all courses in their minor or chosen area of concentration** with a grade of C or better. In order to complete the prerequisites for a mathematics course other than MATH 2200, MATH 2008, or MATH 2900, the prerequisite courses must be completed with a grade of C or better.

- J. Psychology
- K. Honors Program
- L. Gender and Women's Studies