Instructions for Degree/Major Revisions:

- Complete this form when the proposed changes will impact the words, numbers, or symbols as presented in the current catalog copy (often referred to as “changing the footprint of the catalog”). Changes to Program Admission Requirements and Additional Graduation Requirements should also be included in this proposal.
- Catalog copy is available at http://www.fgcu.edu/catalog/. Scroll down to “Academic Programs” on the left navigation bar. Select Undergraduate Programs. Select the Program. Select “Print Program Details” in the upper right corner. Copy and paste catalog copy into a Word document. Turn on the tracking function (be sure that both additions and deletions appear in the tracking). Update the catalog year and make edits. Save the document as a Word file.
- When the proposed changes are approved by the College Curriculum Team, the College Administrator will send the following to Lucero Carvajal in Academic and Curriculum Support (ACS) no later than October 31 for review by the University Undergraduate Curriculum Team (UUCT):
  - An electronic MS Word version of the tracked catalog via email.
  - A color hard copy of the Degree/Major Revision Proposal with appropriate signatures via campus mail.
  - An electronic MS Word version of a degree curriculum map showing prerequisites and sequencing for all courses via email.
- If changes are for courses only and there is no impact to the catalog copy, this revision form is not necessary. When these “stand-alone” courses have been approved by the College Curriculum Team and noted in CMS, the CMS College Administrator should send a list to Lucero Carvajal in ACS. The same October 31 deadline applies.
- All changes to courses are completed via the Curriculum Management System (CMS) https://midas.fgcu.edu/acadaff/scns/default.asp
- Reminder: The prefix/number for a new course is handled one way in the catalog copy and another in CMS. In the catalog copy, identify a new course with the suggested title, suggested prefix and course level, plus XXX (e.g., ART 4XXX). When final approval for the course prefix/number is received from Statewide Course Numbering System, the catalog copy will be updated. In CMS, a new course is requested by entering the suggested title and suggested prefix/number with no XXX. See instructions in CMS for selecting an appropriate suggested prefix/number.

1. **Degree/Major Title:**
   - Biochemistry BS

2. **Contact person:** Gregory McManus
   - **College:** CAS
   - **Department/School:** Chemistry & Physics
   - **Telephone:** 239-590-1469

3. **Briefly describe the proposed revision(s).**
   - The Biochemistry BS degree is being changed as follows:
     1. We are splitting the C designation for all required chemistry courses (Analytical Chemistry, Physical Chemistry, and Instrumental Analysis) into separate lecture and lab components. Additionally, in order to ensure that students are better prepared for Physical Chemistry we are adding Analytical Chemistry CHM 3120/L as a prerequisite the new Physical Chemistry lecture/lab courses.
     2. We are adding 2 new upper level elective courses: CHM 4170C Lasers in Physical Sciences and CHM 4512C Computational Modeling.
     3. We are adding laboratory components to 2 existing upper level elective courses: CHM 4220C Advanced Organic Chemistry and CHM 4714C Materials Chemistry.
4. We are moving ISC 3120C Scientific Process from our list of required course to the list of our restricted electives. As a result of this we are changing the prerequisites for CHM 4932 Chemistry Senior Seminar and CHM 4910C Senior Project in Chemistry.

5. Based upon feedback received from the American Chemical Society we are changing the prerequisite for CHM 4080C Adv. Environmental Chemistry.

6. The course description and student learning outcomes for CHM 1045L General Chemistry I Lab are being updated to reflect the current content taught within the course.

4. **Effective date:** Fall 2017
   Changes are effective in the fall of the year. Exceptions are approved only in unusual circumstances with adequate justification.

5. **Briefly explain the rationale for the proposed revision.**
   Link the proposed revision to assessment and institutional effectiveness activities (feedback from students, market demands, program evaluation, resource allocation, etc.). Provide three years of data.

   We have received feedback from the American Chemical Society (ACS) during our accreditation application that the department needs to have a clearer picture of laboratory hours. In addition, ACS stated that our laboratory courses need improved rigor. We have decided to split the C designation for all required chemistry courses into separate lecture and lab components. CHM 3120C Analytical Chemistry will become CHM 3120/L Analytical Chemistry lecture/lab. CHM 4139C Instrumental Analysis will become CHM 4130/L Instrumental Analysis lecture/lab. CHM 4139/L is not an appropriate course number for this instrumentation course according to the SUS course numbering system, we have selected CHM 4130/L as a more appropriate course number based upon other institutions within the SUS. CHM 3005C Phys Chem for Life Sciences will become CHM 3400/L Principles of Phys. Chem. lecture/lab.

   CHM 3005C is not an appropriate course number for a physical chemistry course according to the SUS course numbering system, we have selected CHM 3400/L as a more appropriate course number based upon other institutions within the SUS. Additionally, we are adding Analytical Chemistry CHM 3120/L as an additional prerequisite for this class which will help improve the rigor and more effectively prepare students for Physical Chemistry. These courses already have separately scheduled lecture and laboratory times so this change will have no effect on how we currently schedule these courses.

   In an effort to strengthen the course offerings within our chemistry program we are adding 2 additional upper level elective courses within our Biochemistry BS program. ACS pointed to a lack of computational chemistry content within our program and we are addressing this by adding CHM 4512C Computational Modeling as a new course to our list of restricted electives. The new CHM 4170C Lasers in Physical Sciences course will provide our students with the opportunity to take an upper level analytical chemistry elective which we are currently lacking.

   We are adding a “C” designation to our CHM 4220C Advanced Organic Chemistry and CHM 4714C Materials Chemistry elective courses. The recent acquisition of new research grade instrumentation (i.e., NMR, GC-MS, Gas Sorption Analyzer, and an X-ray diffractometer) will allow the incorporation of labs into these courses which previously was not possible. The increased laboratory contact time provided through these elective courses will help towards satisfying ACS certification requirements.

   We are moving ISC 3120C Scientific Process from our list of required courses to the list of our restricted electives. Given the content covered in the CHM 4932 Chemistry Senior Seminar course which we recently added to our Biochemistry BS program, having both ISC 3120C and CHM 4932 as required courses is redundant in some areas. This will change the minimum number of credits for required courses in the major from 41 to 38 and the minimum number of credits for restricted elective courses from 9 to 12. Chemistry/Biochemistry students only account for a small percentage of the students enrolling in ISC 3120C so there should only be a small decrease in the enrollment in that course. Additionally, CAS has difficulty keeping up with the student demand for ISC 3120C so this change should help free up seats for students in other science majors who still require ISC 3120C. As a result of this we are changing the
prerequisites for CHM 4932 Chemistry Senior Seminar and CHM 4910C Senior Project in Chemistry to Analytical Chemistry lecture/lab and Organic Chemistry II lecture/lab.

The ACS accreditation committee recommended that the prerequisite for CHM 4080C Adv. Environmental Chemistry be higher than CHM 1046/L General Chemistry II lecture/lab so we are increasing the prerequisite to CHM 2210/L Organic Chemistry I lecture/lab.

The course description and student learning outcomes for CHM 1045L General Chemistry I lab are being updated to reflect the current content taught within the course. The current course description provides a list of experiments some of which are no longer utilized in our general chemistry course. ‘Measurement and accuracy in the laboratory’ is no longer a single experiment and is now incorporated into most experiments. Colligative properties are not a topic covered in any CHM 1045 course at FGCU and have not been covered in lab in at least 6 years. In addition, this list constrains the ability of faculty to develop and implement new experiments that could increase student understanding and experimental skills. The new course description focuses on key laboratory skills necessary for students to transition into CHM 1046L and allows faculty to develop new experiments. Finally, several CHM 1045 courses are no longer lecture based and so the language ‘lecture class’ is outmoded.

6. Describe additional library resources needed to support this revision? Explain rationale for response, even if answer is None.

None, the existing library resources are sufficient.

7. Describe additional faculty resources needed to support this revision? Explain rationale for response, even if answer is None.

None, these courses can be taught by our current faculty.

8. Describe additional technology, facility, laboratory, or other resources needed to support this revision? Explain rationale for response, even if answer is None.

None, these courses already have separately scheduled lecture and laboratory times so this change will have no effect on how we currently schedule these courses.

9. What impact will the proposed revision have on other colleges, units, or programs?

Please search current online catalog to determine if other colleges, units, or programs use courses that are part of this proposal and need to be notified of any changes.

None

10. New courses:

☐ No new courses are required.

☒ New courses are needed. List prefix/number/title below. Complete a Course Add Form for each from the Curriculum Management System - https://midas.fgcu.edu/acadaff/scns/.

CHM 3120 Analytical Chemistry
CHM 3120L Analytical Chemistry Lab
CHM 3400 Principles of Phys. Chem.
CHM 3400L Principles of Phys. Chem. Lab
CHM 4130 Instrumental Analysis
CHM 4130L Instrumental Analysis Lab
CHM 4170C Lasers in Physical Sciences
CHM 4512C Computational Modeling

11. Change to existing courses:

Degree/MajorRevision Proposal – Revised – 6-29-16
Florida Gulf Coast University  UNDERGRADUATE Degree/Major Revision Proposal

☐ No existing courses are being changed.
☒ Existing courses are being changed. List prefix/number/title below. Complete a Course Change Form for each from the Curriculum Management System - https://midas.fgcu.edu/acadaff/scns/.

CHM 1045L General Chemistry I Lab
CHM 4080C Adv. Environmental Chemistry
CHM 4220C Advanced Organic Chemistry
CHM 4714C Materials Chemistry
CHM 4910C Senior Project in Chemistry
CHM 4932 Chemistry Senior Seminar

12. Termination of existing courses:

☒ No existing courses are being deleted from the FGCU course inventory.
☐ Courses are being terminated. List prefix/number/title below. Complete a Course Terminate Form for each course from the Curriculum Management System - https://midas.fgcu.edu/acadaff/scns/.

13. What impact will the proposed revision have on the progression or sequencing of courses in this degree program?

Please provide evidence in the form of a degree curriculum map, a listing of all General Education, required and restricted elective courses in the major and their prerequisites or use another form appropriate for your program.

These revisions should have no impact on the scheduling of the required courses in our program. The chemistry program currently offers 2-4 upper level elective courses per year and will continue to ensure that each upper level elective course will be offered once every 2-3 years.

14. What impact will the proposed revision have on the progression or sequencing of courses in this degree program for current students?

Our students will be required to complete an additional restricted elective course instead of ISC 3120C Scientific Process. Our current students will be required to complete Analytical Chemistry and Organic Chemistry 2 prior to taking Chemistry Senior Seminar. Considering that our students take these courses during their sophomore/junior years this change should not have a significant effect on the progression or sequencing of courses for students in our program.

15. Catalog copy:
See Instructions above.

16. Additional remarks:

APPROVALS (required prior to submission)

Department/Program Chair/Director  Date 10/8/16

College Curriculum Committee Chair  Date 10/8/16

College Dean  Date 10/11/16

Does another department or unit provide related expertise or offer similar courses?  ☐ No  ☐ Yes (If yes, have the other department complete the following. Attach a separate sheet if needed.)

Department/Unit:

☐ Supports this proposal  ☐ Does not support this proposal  ☐ Defers Recommendation

Degree/Major Revision Proposal – Revised – 6-29-16
Florida Gulf Coast University  
UNDERGRADUATE Degree/Major Revision Proposal

Authorizing signature: ___________________________ Date ___________________________
Comments: ____________________________________________
Biochemistry (B.S.)
College of Arts and Sciences
Department of Chemistry and Physics
http://www.fgcu.edu/CAS/BiochemistryBS/index.asp
(239) 590-1878

2016-2017 Catalog Year

Program Admission Requirements

- Submit an FGCU Undergraduate Admission Application and satisfy all applicable university admission requirements.
- Complete common prerequisites with a grade of C or better.
- Attend an orientation session.
- Sign an Advising Agreement document.

Program Requirements

To prevent or minimize excess hours, select general education courses that satisfy common prerequisite requirements for your intended major.

1. **FGCU General Education Program** ([http://www.fgcu.edu/general_education/](http://www.fgcu.edu/general_education/))

2. **Common Prerequisites**
   A minimum grade of C is required in each course.

   FGCU Course: BSC 1010C General Biology I w/lab (4)
   Acceptable Substitute: (BSCX010 and BSCX010L) or BSCX010C or (BSCX040 and BSCX040L) or BSCX040C

   FGCU Course: BSC 1011 General Biology II (3) and BSC 1011L General Biology II Laboratory (1)
   Acceptable Substitute: (BSCX011 and BSCX011L) or BSCX011C or (BSCX041 and BSCX041L)

   FGCU Course: CHM 1045 General Chemistry I (3) and CHM 1045L General Chemistry I Lab (1)
Acceptable Substitute: (CHMX045 and CHMX045L) or CHMX045C or (CHMX040 and CHMX041)

FGCU Course: CHM 1046 General Chemistry II (3) and CHM 1046L General Chemistry II Lab (1)
Acceptable Substitute: (CHMX046 and CHMX046L) or CHMX046C

FGCU Course: CHM 2210 Organic Chemistry I (3) and CHM 2210L Organic Chemistry I Laboratory (1)
Acceptable Substitute: (CHMX210 and CHMX210L) or (PHYX048 and PHYX048L) or (PHYX053 and PHYX053L)

FGCU Course: CHM 2211 Organic Chemistry II (3) and CHM 2211L Organic Chemistry II Laboratory (1)
Acceptable Substitute: (CHMX211 and CHMX211L) or (PHYX049 and PHYX049L) or (PHYX054 and PHYX054L)

FGCU Course: MAC 2311 Calculus I (4)
Acceptable Substitute: MACX311 or MACX233 or MACX253 or MACX281

FGCU Course: MAC 2312 Calculus II (4)
Acceptable Substitute: MACX312

3. **Required Courses in the Major (44-38 credits)**
A minimum grade of C is required in each course.

BCH 4033C Advanced Biochemistry I (4)
BCH 4034C Advanced Biochemistry II (4)
CHM 3005C Phys Chem for Life Sciences (4)
CHM 3120C Analytical Chemistry (4)
CHM 3120 Analytical Chemistry (3)
CHM 3120L Analytical Chemistry Laboratory (1)
CHM 4139C Instrumental Analysis (4)
CHM 3400 Principles of Phys. Chem. (3)
CHM 3400L Principles of Phys. Chem. Laboratory (1)
CHM 3610 Inorganic Chemistry (3)
CHM 3610L Inorganic Chemistry Lab (1)
CHM 4130 Instrumental Analysis (3)
CHM 4130L Instrumental Analysis Laboratory (1)
CHM 4931 Senior Capstone in Chemistry (3)
CHM 4932 Chemistry Senior Seminar (3)
ISC 3120C Scientific Process (3)
PHY 2048C General Physics w/lab I (4) or PHY 2053C College Physics I w/lab (4)
PHY 2049C General Physics w/lab II (4) or PHY 2054C College Physics II w/lab (4)

*If PHY 2048C and PHY 2049C or PHY 2053C and PHY 2054C were completed as common prerequisites, CHM 2210C and CHM 2211C must be taken to fulfill the required courses in the major; conversely, if CHM 2210C and CHM 2211C were taken to fulfill common prerequisites, PHY 2048C and PHY 2049C or PHY 2053C and PHY 2054C must be completed.

4. Restricted Electives in the Major (1619 credits)
A minimum grade of C is required in each course.

Chemistry electives (1013 credits)
BCH 3025C Analytical Biochemistry (3)
CHM 3940 Internship in Chemistry (1-4)*
CHM 4080C Adv Environmental Chemistry (3)
**CHM 4170C Lasers in Physical Sciences (3)**
CHM 4220C Advanced Organic Chemistry (3)
CHM 4230C Practical NMR Spectroscopy (3)
CHM 4300 Bio-Organic Chemistry (3)
CHM 4431 Statistical Thermodynamics (3)
**CHM 4512C Computational Modeling (3)**
CHM 4671 Biinorganic Chemistry (3)
CHM 4714C Materials Chemistry (3)
CHM 4905 Dir Ind Study/Res in Chem (2-4)*
CHM 4910C Senior Project in Chemistry (2)*
CHM 4912C Senior Thesis/Pres. Chemistry (2)*
CHM 4930 Special Topics in Chemistry (3)
CHS 4533C Forensic Biochemistry (3)
CHS 4544C Forensic Chemistry (3)
**ISC 3120C Scientific Process (3)**

*A maximum number of 4 credits combined from these courses can be used to fulfill the elective requirement.

Biology electives (6 credits)
BSC 4422C Methods in Biotechnology (3)
MCB 3020C General Microbiology (4)
PCB 3023C Cell Biology (4)
PCB 3063C Genetics (4)
PCB 4233C Immunology (3)
PCB 4522C Molecular Genetics (3)

5. University Requirements (3 credits)
   IDS 3920 University Colloquium (3)

6. Additional electives - as needed to reach total credits required for the degree

TOTAL SEMESTER HOURS REQUIRED: 120 HRS

Additional Graduation Requirements

- A minimum of 120 credits.
- A minimum of 48 of the 120 credits must be at the upper division (3000 - 4999) level.
- A cumulative GPA of 2.0 for all coursework attempted at FGCU.
- Satisfaction of the College-Level Skills and foreign language entrance requirements.
- Satisfaction of the Service Learning requirement (See www.fgcu.edu/connect).
- Satisfaction of the residency requirement: thirty of the last sixty credits must be completed at FGCU.
- Completion of the summer course enrollment requirement.
- Submit an Application for Graduation by the deadline listed in the FGCU Academic Calendar.
# Bachelor of Science in Biochemistry

<table>
<thead>
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<th>Course Description</th>
<th>Credits</th>
<th>Prerequisites</th>
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**Fall - Year 1**

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**Spring - Year 1**

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**Fall - Year 2**

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**Spring - Year 2**

**Notes:**

* Assumes student arrrives ready for Calculus I (MAC 2311) and Statistical Methods (STA 2023)

** Students must complete 6 hours of Intercultural Knowledge coursework (IWKKN) from within the Social Sciences, Humanities or Natural Sciences. Additionally to Composition I & II students will complete a additional 6 hours of College Level Writing Skills (CLWS) from within the Social Sciences or Humanities categories, or Colloquium with a "C" or higher.

For additional information, see: [http://www.fgcu.edu/CAS/BiochemistryBS/index.asp](http://www.fgcu.edu/CAS/BiochemistryBS/index.asp)
## Bachelor of Science in Biochemistry

### Fall - Year 3

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**Total Credits for Semester:** 15

### Spring - Year 3

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**Total Credits for Semester:** 13

### Fall - Year 4

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<td>CHM 4932</td>
<td>Chemistry Senior Seminar</td>
<td>3</td>
<td>CHM 2211/L or CHM 2211C and CHM 3120/L or CHM 3120C</td>
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<td>IDS 3920</td>
<td>University Colloquium</td>
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<td>Meets Communication Skills requirement</td>
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<tr>
<td>XXX 3XXX</td>
<td>General Elective</td>
<td>2</td>
<td>see course description on Gulfline</td>
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<tr>
<td>XXX 3XXX/4XXX</td>
<td>Upper Level Elective</td>
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<td>see course description in catalog</td>
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**Total Credits for Semester:** 15

### Spring - Year 4

<table>
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<tr>
<th>Course</th>
<th>Course Description</th>
<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>CHM 4931</td>
<td>Senior Capstone in Chemistry</td>
<td>3</td>
<td>CHM 3400/L or CHM 3005C, and CHM 4130/L or CHM 4130C (both may be taken CONCURRENTLY with CHM 4931), and BCH 3023C or BCH 4034C</td>
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<td>CHM 4130/L</td>
<td>Instrumental Analysis</td>
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**Total Credits for Semester:** 13

**Total Credits for Degree:** 120

### Course Type
- General Education
- Common Prerequisites
- Strongly Recommended Gen Ed
- Required in the Major
- Restricted Electives
- University Requirement
- General Electives

**Note:** FGCU requires that students who enter with fewer than 60 semester hours of credit must enroll in a minimum of 9 semester credit hours of coursework during one or more summer sessions prior to graduation. Therefore any of the courses listed in the fall and spring semesters above may be completed during a summer session. The total credits for the degree still add up to 120.

### Summer

<table>
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<th>Course</th>
<th>Course Description</th>
<th>Credits</th>
<th>Prerequisites</th>
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| Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change | 2 Year Change | 1 Year Change |
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**Notes:** Includes Professional Studies (includes Undergraduate Enrollment Headcount by Term (unmultiplied))
Students must take both organic chemistry and either general or college physics. One set will serve as a common prerequisite; the other set will serve as the required course in the major.

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Prerequisites in the Major - Minimum of 9 credits required:

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Bachelor of Arts in Chemistry

Florida Gulf Coast University

4-Year Course Rotation

College of Arts and Sciences

Department of Chemistry & Physics

Prefix/No Course Title Fall Spring Fall Spring Fall Spring Fall Spring 2017-2018 2018-2019 2019-2020
American Chemical Society

Dear Dr. Reilly:

The Committee appreciated the opportunity to talk with you and your colleagues concerning the application for ACS approval of the chemistry program at Florida Gulf Coast University. The discussion was very helpful to the members in gaining a better understanding of the department and its objectives. The university’s significant growth in the last decade has transformed the chemistry program with an increased number of majors and faculty. You and your colleagues are making excellent progress in the development of the chemistry program, and the Committee encourages you to continue your efforts.

However, certain aspects of the program are not yet in compliance with the ACS Guidelines. After evaluating all of the information available, the Committee decided to withhold approval because of the concerns described below:

- **Physical chemistry.** The course that is proposed for the foundation coverage in physical chemistry, Physical Chemistry for Life Sciences (CHM 3005C), must be strengthened. The course has little coverage of quantum mechanics, and the treatment of chemical equilibrium and electrochemistry appear to be more suited to an analytical chemistry course. The overall rigor of the classroom and the lab experience must be improved. The enclosed supplement describes the Committee expectations for course work in this area.

- **Laboratory experience.** The current laboratory experience does not meet the requirements for breadth in four of the five subdisciplines (analytical, biochemistry, inorganic, organic, and physical chemistry) and does not provide the minimum of 400 lab hours required for student certification. Within the currently required course work, coverage of inorganic and biochemistry laboratory is not sufficient. In addition, hands-on experience with mass spectrometers, atomic absorption, and electrochemistry equipment must be included in the instructional lab courses required for certification, not just in research.

- **Computational chemistry.** The course materials that were submitted do not provide much evidence that computational methods are incorporated into the curriculum. This coverage must be strengthened and integrated into some of the courses that would be required for certification.

- **In-depth courses.** The Committee agreed that Advanced Environmental Chemistry (CHM 4080C) and Forensic Chemistry (CHS 4544C) could not be counted as in-depth course work for ACS approval or student certification. Acceptable in-depth courses must build on foundation chemistry concepts. Exams and other assignments should require critical thinking and problem-solving skills. The department must be able to maintain the ability to teach four in-depth courses each academic year without CHS 4544C and CHM 4030C unless the content of those courses is strengthened.
• **Research reports.** According to the proposed plan for laboratory experience, undergraduate research would be used for 180 of the lab hours. In order to satisfy the requirements for laboratory hours or in-depth course work, comprehensive written reports must be required of the students, and a sample of these reports must be included in the application package.

In addition, the Committee suggests that the faculty place more emphasis on the development of student skills throughout the curriculum. From the information included in the application package, work with the chemical literature appears to occur only in the upper level courses. Laboratory exercises seem to be recipe-driven experiments that offer students little autonomy in experiment design.

The Committee believes that the chemistry program is moving in a very positive direction and has developed good plans for addressing some of the deficiencies identified in this letter. In order to move forward in the application process, the chemistry program must be teaching all course work that is required for ACS approval. When you have made the necessary changes to your program, you should begin the approval process by submitting a new pre-application.

Please do not hesitate to contact me if you have any questions about the Committee’s decision or the requirements for ACS approval.

*Sincerely,*

* [Signature]

Cathy A. Nelson  
Secretary  
Committee on Professional Training

CAN/hdk

c: President Wilson G. Bradshaw

Enclosure: Physical Chemistry Supplement
Dear Lucero,

Please see my answers in red. Please let me know if I have not answered any question properly.

Greg, can you put together the forms that Lucero requests below?

Kind regards,

John Reilly

John T. Reilly, Ph.D.
Chair, Department of Chemistry and Physics
Florida Gulf Coast University
10501 FGCU Blvd South
Ft Myers, Florida 33965-6565
WH 221
Tel: 239 590 1881
Fax: 239 590 7200
Website: http://www.fgcu.edu/CAS/Departments/CPhy/index.asp
Facebook: https://www.facebook.com/FGCUChemPhysics/?fref=ts
Chemistry club: https://www.facebook.com/groups/FGCUChemClub/
Egan Observatory: https://www.facebook.com/EganObservatory/?fref=ts

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From: Carvajal, Lucero
Sent: Friday, November 04, 2016 12:25 PM
To: Lindsey, Dr. Charles; Duff, Dr. Cathy
Cc: Reilly, Dr. John; Rice, Patricia; Stanis, Melanie
Subject: RE: curriculum proposals attached

Hi Chuck and John,

I am reviewing the curriculum proposals for the majors in the Chemistry & Physics department and I have the following observations:
Thank you very much for the detailed rationale on the proposal, it is the clearest one we have reviewed thus far. We do have the following question, the proposal indicates that due to the American Chemical Society (ACS), the “department needs to have a clearer picture of laboratory hours” so the current C courses are going to be split as lecture and lab separate. However, in the same proposal two other courses are having the C designation added. This seems to contradict the first rationale; is there a reason for not adding the lab as a separate component as you are doing with the current C courses?

The courses we are changing lecture/lab from “C” are those that are considered the 4/5 core disciplines in chemistry; analytical, instrumental, physical, inorganic (set up as split) and organic is already split. Those courses with the “C” designation are electives outside of the core ACS disciplines. The department needs to have 400 lab hours split amongst the 4/5 disciplines. We are below 200 at the moment. Secondary to that is infrastructure. We do not have the infrastructure here on campus to handle complete lab sections of every course. For this we are designating those as “C” to reduce any pressure the department, and faculty member, may feel from providing space and 15 weeks of labs for those course. The “C” courses are new and will take time to develop a full laboratory component.

- If the changes to split the current C courses are pursued and approved, then there are two courses that will need to have the prerequisites updated to the new versions of the courses. As such, the following will need to have the appropriate forms in CMS:
  - CHM 4931 will need to have prerequisites updated to include both versions of CHM 4139C and CHM 3005C.
  - CHS 3941 will need to have prerequisites updated to include both versions of CHM 3120C

We will put in the appropriate forms to clarify the prerequisites.

- CHM 3120C is also used in Bioengineering B.S.; however, revision proposal and CMS form do not address if WCE has been informed of the proposed change. An e-mail communication with WCE will suffice.

I did not know that CHM 3120C is used in B.S. Engineering. Thank you for letting me know. The total credit hours do not change with the splitting of the course and will not affect that program. I will contact the program leader of the change and ask if there are any concerns.

We will need to receive the additional information before we can submit the proposal for review at UUCT.

Finally, I want to bring something to your attention so you are prepared to discuss should UUCT members request additional information. It is in reference to question #14 which asks “what impact will the proposed revision have on the progression or sequencing of courses in this degree program for current students?”.

Is there a plan to continue offering the current C version of the courses?
No, there is no plan to continue offering the “C” courses. The credit hours of the “C” course and the split courses are equal. We will go directly to the split courses once approved. At present, and for a while now, we have split the meeting times of the lecture and lab to mimic what we are doing now. Students are already used to taking the lab separate from the lecture. We are now making it official.

How are current students being informed of the need to register for the new versions and, similarly, prevent students from unintended repeats due to the course numbers changes (such as notes on Gullfline, syllabus)?

There will not be any unintended duplication of courses. The “C” courses will not be launched if the split courses are approved. Any student that took a “C” in the past will be considered to have taken the split course.
Additionally, has the department thought about how to handle grade forgiveness? The courses cannot be marked equivalent in Banner because the relation has to be one to one; additionally, repeat rules will not catch if a student who already successfully passed the course as a C version and then retakes the (lecture/lab) combination, all attempts will count.

Again the student will not be taking the “C” course unintentionally as it will not be launched. As for grade forgiveness, there will additional courses that the student will have to be concerned with during their time here. We are not doing anything out of the ordinary here. “C” courses are not common throughout the US in the STEM disciplines. Lecture/lab is the most common form of core science courses.

Thank you,

Mrs. Lucero M. Carvajal, MPA
Assistant Director
Academic and Curriculum Support
Florida Gulf Coast University
Phone: 239-745-4368

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This email may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. If you are not the addressee and it appears from the context or otherwise that you have received this email in error, please advise me immediately by reply email, keep the contents confidential, and immediately delete the message and any attachments from your system.

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From: Lindsey, Dr. Charles
Sent: Monday, October 31, 2016 11:58 AM
To: Duff, Dr. Cathy <cduff@fgcu.edu>; Carvajal, Lucero <lcarvajal@fgcu.edu>
Cc: Reilly, Dr. John <jreilly@fgcu.edu>; Rice, Patricia <price@fgcu.edu>; Stanis, Melanie <mstanis@fgcu.edu>
Subject: curriculum proposals attached

Lucero & Cathy-

Attached are proposals for related programs in chemistry. They are not quite identical, but nearly so. The requested changes to Chemistry courses affects all four programs, so there you go. I will bring over hard copies later.

Chuck Lindsey, Ph.D. cinsey@fgcu.edu
Associate Dean and Associate Professor of Mathematics
College of Arts and Sciences
Florida Gulf Coast University
10501 FGCU Blvd S., Fort Myers, FL 33965-6565
Phone: 239-590-7168 Fax: 239-590-7200

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Carvajal, Lucero

From: Reilly, Dr. John
Sent: Friday, November 04, 2016 2:45 PM
To: Carvajal, Lucero; Duff, Dr. Cathy; Lindsey, Dr. Charles
Cc: Bacigalupi, Allison; McManus, Dr. Gregory
Subject: FW: Proposed Changes to CHM 3120C - Analytical Chemistry

FYI see below.

Kind regards,

John Reilly

John T. Reilly, Ph.D.
Chair, Department of Chemistry and Physics
Florida Gulf Coast University
10501 FGCU Blvd South
Ft Myers, Florida 33965-6565
WH 221
Tel: 239 590 1881
Fax: 239 590 7200
Website: http://www.fgcu.edu/CAS/Departments/CPhy/index.asp
Facebook: https://www.facebook.com/FGCUChemPhysics/?fref=ts
Chemistry club: https://www.facebook.com/groups/FGCUChemClub/
Egan Observatory: https://www.facebook.com/EganObservatory/?fref=ts

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From: Geiger, Dr. Chris
Sent: Friday, November 04, 2016 2:08 PM
To: Reilly, Dr. John
Subject: Proposed Changes to CHM 3120C - Analytical Chemistry

John:

Per our earlier conversation, I'm writing to let you know that your proposed changes to CHM 3120C, moving from a combined lecture-lab course to a 3 credit hour lecture course + 1 credit hour lab course will not impact our Bioengineering program. Bioengineering students who take Analytical Chemistry do so as one of their technical electives; with the number of credit hours remaining constant, this will have no impact on their ability to take the course nor will it impact the number of credit hours within their curriculum. Please let me know if you have any additional questions you need me to address.

Best,
Chris

R. Christopher Geiger, Ph.D.
Associate Professor and Chair
Department of Bioengineering
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