# Savannah State University
# New Programs and Curriculum Committee
# Summary Page – Form I

1. **Submitting College**: COST

2. **Department(s) Generating The Proposal**: Natural Sciences
   Choose an item. (if needed)

3. **Proposal Title:** Revised Chemistry Program Curriculum

4. **Course Number(s)**: Click here to enter text.

5. **Course Title(s):** Click here to enter text.

6. **Effective Date**: Fall **Year: 2012**

7. **Brief Summary of Proposal**: The proposed revised curriculum will give our students more choices of elective courses. The number of elective hours will increase from 7 to 12 hours for the ACS Certified BS degree and from 7 to 15 for the BS degree. More in-depth courses are added. Students may now choose elective courses from upper level Biology, Forensic Science and Marine Science.

8. **Type of Proposal**: Program Change If other, please describe: Click here to enter text.

9. **Impact on Library Holdings**
   Existing: None
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

10. **Impact on Existing Programs**: Chemistry majors choosing electives from other programs may increase the number of enrollment in those courses.

11. **Additional Resources Required**
    Personnel: None
    Non-personnel: None

12. **Approvals:**

- Department Curriculum Committee Signature_____Date_____

- Department Chair Signature_____Date_____

- College Curriculum Committee Signature_____Date_____

- College Dean Signature_____Date_____

- Vice President of Academic Affairs Signature_____Date_____
  (Chair of the New Programs and Curriculum Committee)

- Faculty Senate Signature_____Date_____

# CHEMISTRY PROGRAM

**Bachelor of Science in Chemistry (ACS Certified)**

| **Areas A, B, C, E and additional requirements** | | **48 hours** |
|---|---|---|

*Note: Required Area D courses are BIOL 1107, 1107L, 1108, 1108L and additional 3-hour course*

| **Area F Courses appropriate to the program of study** | | **17 hours** |
|---|---|---|
| MATH 2101 | Calculus I | 4 hours |
| MATH 2111 | Calculus II | 4 hours |
| CHEM 1211 | Principles of Chemistry I | 3 hours |
| CHEM 1211L | Principles of Chemistry Lab I | 1 hour |
| CHEM 1212 | Principles of Chemistry II | 3 hours |
| CHEM 2101K | Chemistry Research Methods | 2 hours |

| **Area G Major Requirements** | | **60 hours** |
|---|---|---|
| ***Chemistry Foundation Requirements*** | | **37 hours** |
| CHEM 1212L | Principles of Chemistry Lab II | 1 hour |
| CHEM 2501 | Organic Chemistry I | 3 hours |
| CHEM 2501L | Organic Chemistry Lab I | 1 hour |
| CHEM 2511 | Organic Chemistry II | 3 hours |
| CHEM 2511L | Organic Chemistry Lab II | 1 hours |
| CHEM 3101K | Analytical Chemistry | 4 hours |
| CHEM 3111K | Instrumental Analysis | 4 hours |
| CHEM 3201K | Inorganic Chemistry | 4 hours |
| CHEM 3401K | Physical Chemistry I | 4 hours |
| CHEM 3411K | Physical Chemistry II | 4 hours |
| CHEM 3522L | Advanced Synthesis Laboratory | 2 hours |
| CHEM 3602 | Chemical Research | 2 hours |
| CHEM 3801 | Biochemistry | 3 hours |
| CHEM 4901 | Chemical Seminar | 1 hour |
| ***Electives*** | | **12 hours** |
| ***Choose any two courses from the following*** | | ***6 hours*** |
| CHEM 4111 | Bioanalytical Chemistry | 3 hours |
| CHEM 4201 | Advanced Inorganic Chemistry | 3 hours |
| CHEM 4401 | Advanced Physical Chemistry | 3 hours |
| CHEM 4531 | Advanced Organic Chemistry | 3 hours |
| ***Choose any one course from the following*** | | ***3 hours*** |
| CHEM 4532 | Medicinal Chemistry | 3 hours |
| CHEM 4601 | Polymer Chemistry | 3 hours |
| CHEM 4801 | Advanced Biochemistry | 3 hours |
| CHEM 4902 | Special Topics in Chemistry | 3 hours |
| ***Free Elective*** | | ***3 hours*** |
| Choose upper level (4000) Forensic Science course | | |
| ***Additional Requirements*** | | **11 hours** |
| PHYS 2211K | Principles of Physics I | 4 hours |
| PHYS 2212K | Principles of Physics II | 4 hours |
| MATH 3101 | Linear Algebra | 3 hours |

**Exit Exam**

Students must take the exit exam no later than the semester before their graduating semester. A student receiving unsatisfactory grade will enroll in CHEM 4902 Special Topics in Chemistry the following semester.

**Bachelor of Science in Chemistry**

**Areas A, B, C, E and additional requirements 48 hours**

*Note: Required Area D courses are BIOL 1107, 1107L, 1108, 1108L and additional 3-hour course*

| **Area F: Courses appropriate to the program of study** | | **17 hours** |
|---|---|---|
| MATH 2101 | Calculus I | 4 hours |
| MATH 2111 | Calculus II | 4 hours |
| CHEM 1211 | Principles of Chemistry I | 3 hours |
| CHEM 1211L | Principles of Chemistry Lab I | 1 hour |
| CHEM 1212 | Principles of Chemistry II | 3 hours |
| CHEM 2101K | Chemistry Research Methods | 2 hours |

| **Area G: Major Requirements** | | **60 hours** |
|---|---|---|
| ***Chemistry Foundation Requirements*** | | **37 hours** |
| CHEM 1212 | Principles of Chemistry Lab I | 1 hour |
| CHEM 2501 | Organic Chemistry I | 3 hours |
| CHEM 2501L | Organic Chemistry Lab I | 1 hour |
| CHEM 2511 | Organic Chemistry II | 3 hours |
| CHEM 2511L | Organic Chemistry Lab II | 1 hours |
| CHEM 3101K | Analytical Chemistry | 4 hours |
| CHEM 3111K | Instrumental Analysis | 4 hours |
| CHEM 3121K | Inorganic Chemistry | 4 hours |
| CHEM 3401K | Physical Chemistry I | 4 hours |
| CHEM 3411K | Physical Chemistry II | 4 hours |
| CHEM 3522L | Advanced Synthesis Laboratory | 2 hours |
| CHEM 3602 | Chemical Research | 2 hours |
| CHEM 3801 | Biochemistry Chemistry | 3 hours |
| CHEM 4901 | Chemical Seminar | 1 hour |
| ***Electives*** | | ***9* hours** |
| ***Choose any three courses from the following*** | | |
| CHEM 4211 | Bioanalytical Chemistry | 3 hours |
| CHEM 4121 | Advanced Inorganic | 3 hours |
| CHEM 4401 | Advanced Physical Chemistry | 3 hours |
| CHEM 4531 | Advanced Organic Chemistry | 3 hours |
| CHEM 4202 | Medicinal Chemistry | 3 hours |
| CHEM 4601 | Polymer Chemistry | 3 hours |
| CHEM 4801 | Advanced Biochemistry | 3 hours |
| CHEM 4902 | Special Topics in Chemistry | 3 hours |
| ***Free Elective*** | | ***6hours*** |
| Choose upper level courses in Forensic Science, Biology and/or Marine Science | | |
| ***Additional Requirements*** | | **8 hours** |
| PHYS 1111K | Introductory Physics I | 4 hours |
| PHYS 1112K | Introductory Physics II | 4 hours |
| Or | | |
| PHYS 2211K | Principles of Physics I | 4 hours |
| PHYS 2212K | Principles of Physics II | 4 hours |

**Exit Exam**

Students must take the exit exam no later than the semester before their graduating semester. A student receiving unsatisfactory grade will enroll in CHEM 4801 Special Topics in Chemistry the following semester.

**Pre-Professional Program:** Chemistry majors who are interested in gaining admission into Medical, Dental or Pharmacy Schools may concurrently enroll in the required courses for admission into the professional schools.

# Savannah State University
# New Programs and Curriculum Committee
# Program Change Page – Form V

1. **Program Name:** Chemistry

2. **Rationale:** The changes will give students more flexibility for electives. The changes will also resolve the number of required electives for the two tracks.

3. **Resource Statement:** No additional resources required

4. **Additional *existing* courses *required* for completion of program:** None

5. **Additional *new* courses *required* for completion of program [Attach Form II for each course]:**

| | | |
|---|---|---|
| CHEM 2601K | Chemistry Research Methods | 2 hours |
| CHEM 3121K | Inorganic Chemistry | 3 hours |

6. **Additional *existing* courses which can be used as *electives* in program:**

BS Chemistry ACS Certified

| | | |
|---|---|---|
| CHEM 4201 | Advanced Inorganic Chemistry | 3 hours |
| CHEM 4532 | Medicinal Chemistry | 3 hours |
| CHEM 4801 | Advanced Biochemistry | 3 hours |
| CHEM 4902 | Special Topics in Chemistry | 3 hours |
| Upper level (4000) Forensic Science course | | 3 hours |
| MATH 3101 | Linear Algebra | 3 hours |

BS Chemistry

| | | |
|---|---|---|
| CHEM 4121 | Advanced Inorganic | 3 hours |
| CHEM 4202 | Medicinal Chemistry | 3 hours |
| CHEM 4801 | Advanced Biochemistry | 3 hours |
| CHEM 4902 | Special Topics in Chemistry | 3 hours |
| Upper level courses in Forensic Science, Biology and/or Marine Science | | 6 hours |

7. **Additional *new* courses which can be used as *electives* in program [Attach Form II for each course]:**

| | | |
|---|---|---|
| CHEM 4211 | Bioanalytical Chemistry | 3 hours |
| CHEM 4401 | Advanced Physical Chemistry | 3 hours |

8. **Deletion of *existing required* courses [Attach Form III for each course]:**

| | | |
|---|---|---|
| CHEM 2101 | Laboratory Synthesis | 2 hours |
| CHEM 3101L | Analytical Chemistry Lab | 1 hour |
| CHEM 3201L | Instrumental Analysis Lab | 1 hour |
| CHEM 3401L | Physical Chemistry Lab I | 1 hour |
| CHEM 3411L | Physical Chemistry Lab II | 1 hour |
| CHEM 4301L | Chemistry of the Environment | 1 hour |
| CHEM 4601L | Polymer Chemistry Lab | 1 hour |
| CSCI 1301 | Computer Science I | 3 hours |
| Languages | Spanish/German/French | 6 hours |
| MATH 1212 | Calculus III | 4 hours |

9. **Deletion of *existing elective* courses [Attach Form III for each course]:**
Click here to enter text.

10. ***Existing* course changes [Attach Form IV for each course]:**

| | | | |
|---|---|---|---|
| CHEM 3101 | CHEM 3101K | Analytical Chemistry | 4 hours |
| CHEM 3201 | CHEM 3111K | Instrumental Analysis | 4 hours |
| CHEM 3401 | CHEM 3401K | Physical Chemistry I | 4 hours |
| CHEM 3411 | CHEM 3411K | Physical Chemistry II | 4 hours |
| CHEM 3522 | CHEM 3522L | Advanced Synthesis Laboratory | 2 hours |
| CHEM 3302 | CHEM 3602L | Chemical Research | 2 hours |
| CHEM 4101 | CHEM 3801 | Biochemistry | 3 hours |
| CHEM 4111 | CHEM 4801 | Advanced Biochemistry | 3 hours |
| CHEM 4121 | CHEM 4201 | Advanced Inorganic Chemistry | 3 hours |
| CHEM 4201 | CHEM 4532 | Medicinal Chemistry | 3 hours |

11. **Change in admissions requirements:** No changes

12. **Change in other degree requirements:** No changes

13. **Change in number of *required* credits:** No changes

14. **Change in number of *elective* credits:** From 7 credit hours to 12 credit hours for the ACS Certified BS Chemistry and 7 credit hours to 15 credit hours for BS Chemistry.

15. **Change in number of total credits required for the degree:** No changes

16. **Other information:** A minimum of C is required for prerequisites for all chemistry courses.

# Savannah State University
# New Programs and Curriculum Committee
# Course Addition Page – Form II

1. **Course Number**: CHEM 2601K

2. **Course Title**: Chemistry Research Methods

3. **Catalogue Description**: Review of the research process. Construct a literature review, including the use of computer based tools, and critically analyze research papers. Introduction to performing systematic independent investigation, critically interpreting results in the context of previous studies, and communicating research results as a scientific report.

4. **Rationale**: This course will provide an introduction into nature of chemical research and prepare students for their senior research

5. **Credit Hours**: 2

6. **Pre-requisites**: CHEM 1212

7. **Syllabus**: Click here to enter text.

8. **Similarity to or duplication of Existing Courses**: Click here to enter text.

9. **Textbook selection**: Click here to enter text.

10. **Grading**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Addition Page – Form II

1. **Course Number**: CHEM 3201K

2. **Course Title**: Inorganic Chemistry

3. **Catalogue Description**: Fundamental principles of inorganic chemistry. Topics include electronic structure of atoms, inorganic bonding theories, group theory, coordination chemistry, and spectroscopic applications. The accompany lab reinforces concepts of the topics discussed in lecture course.

4. **Rationale**: This is a lower level Inorganic Chemistry course including laboratory, which prepares students for the advanced level courses in Inorganic Chemistry.

5. **Credit Hours**: 2

6. **Pre-requisites**: CHEM 1212

7. **Syllabus**: Click here to enter text.

8. **Similarity to or duplication of Existing Courses**: Click here to enter text.

9. **Textbook selection**: Click here to enter text.

10. **Grading**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Addition Page – Form II

1. **Course Number**: CHEM 4401

2. **Course Title**: Advanced Physical Chemistry

3. **Catalogue Description**: Click here to enter text.

4. **Rationale**: This will be one of the in-depth courses that prepare students for graduate school and/or the industry. It will also be used to partly fulfill the ACS Certified degree requirements.

5. **Credit Hours**: 3

6. **Pre-requisites**: CHEM 3411K

7. **Syllabus**: Click here to enter text.

8. **Similarity to or duplication of Existing Courses**: Click here to enter text.

9. **Textbook selection**: Click here to enter text.

10. **Grading**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 2101

2. **Course Title**: Laboratory Synthesis

3. **Catalog Description**: This laboratory course is designed to prepare chemistry majors for upper level laboratory courses. The laboratory experiments will include quantitative analysis, inorganic synthesis and computational methods.

4. **Rationale**: The course is replaced with a new course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 3101L

2. **Course Title**: Analytical Chemistry Lab

3. **Catalog Description**: Lab taken concurrently with CHEM 3101

4. **Rationale**: The lecture and lab courses are combined to a K course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 3201L

2. **Course Title**: Instrumental Analysis Lab

3. **Catalog Description**: Lab taken concurrently with CHEM 3201

4. **Rationale**: The lecture and lab courses are combined to a K course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 3401L

2. **Course Title**: Physical Chemistry Lab I

3. **Catalog Description**: Equilibrium electrochemistry, chemical kinetics, reaction dynamics, quantum theory, atomic and molecular structure, modern spectroscopy.

4. **Rationale**: The lecture and lab courses are combined to a K course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 3411L

2. **Course Title**: Physical Chemistry Lab II

3. **Catalog Description**: Lab taken concurrently with CHEM 3411.

4. **Rationale**: The lecture and lab courses are combined to a K course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 4301L

2. **Course Title**: Chemistry of the Environment Lab

3. **Catalog Description**: Lab taken concurrently with CHEM 4301.

4. **Rationale**: The lecture and lab courses are combined to a K course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Deletion Page – Form III

1. **Course Number**: CHEM 4601L

2. **Course Title**: Polymer Chemistry Lab

3. **Catalog Description**: Lab taken concurrently with CHEM 4601.

4. **Rationale**: The lecture and lab courses are combined to a K course.

5. **Library Resource Deletions**: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 3101
   New: CHEM 3101K

2. **Course Title**
   Current: Analytical Chemistry
   New: Same

3. **Catalog Description**
   Current: Principles and techniques in volumetric and gravimetric determinations. Principles of chemical equilibria using chromatographic, spectrophotometric and potentiometric methods of analysis.
   New: Same

4. **Rationale**: The current lecture and lab courses are combined into K course.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 4

7. **Pre-requisites**
   Current: CHEM 1212
   New: CHEM 1212 and 1212L
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 3201
   New: CHEM 3111K

2. **Course Title**
   Current: Instrumental Analysis
   New: Same

3. **Catalog Description**
   Current: Instrumental techniques used in chemical analysis with emphasis on accuracy and precision. Statistical and regression methods for interpretation of data.
   New: Same

4. **Rationale**: The current lecture and lab courses are combined into K course.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 4

7. **Pre-requisites**
   Current: CHEM 3101
   New: CHEM 3101K
   Deletions: Click here to enter text.

9. **Syllabus**: Click here to enter text.

10. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

11. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

12. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 3401
   New: CHEM 3401K

2. **Course Title**
   Current: Physical Chemistry I
   New: Same

3. **Catalog Description**
   Current: Thermochemistry, thermodynamics, equilibria, electrochemistry, kinetics and quantum mechanics.
   New: Same

4. **Rationale**: The current lecture and lab courses are combined into K course.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 4

7. **Pre-requisites**
   Current: CHEM 1212
   New: CHEM 1212/1212L and MATH 2111
   Deletions: Click here to enter text.

10. **Syllabus**: Click here to enter text.

11. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

12. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

13. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 3411
   New: CHEM 3411K

2. **Course Title**
   Current: Physical Chemistry II
   New: Same

3. **Catalog Description**
   Current: Liquids, solids, surface and transport phenomena. Modern treatment of atom, structure, spectroscopy, statistical mechanics and statistical thermodynamics
   New: Same

4. **Rationale**: The current lecture and lab courses are combined into a K course.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 4

7. **Pre-requisites**
   Current: CHEM 3401
   New: CHEM 3401K
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

12. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

13. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

14. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# Savannah State University
# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 3522
   New: CHEM 3522L

2. **Course Title**
   Current: Advanced Synthesis Laboratory
   New: Same

3. **Catalog Description**
   Current: The focus of this laboratory course will be on advanced synthetic methods in organic, inorganic chemistry and biochemistry. A wide range of compounds will be synthesized and characterized using appropriate separation and spectroscopic techniques. The interpretation of spectroscopic spectra will be emphasized. There will be two three-hour labs per week.
   New: The focus of this laboratory course will be on advanced synthetic methods in organic and biochemistry. A wide range of compounds will be synthesized and characterized using appropriate separation and spectroscopic techniques. The interpretation of spectroscopic spectra will be emphasized. There will be two three-hour labs per week.

4. **Rationale**: The course name is changed to indicate that the course is a laboratory course.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 2
   New: 2

7. **Pre-requisites**
   Current: CHEM 2501/2501L
   New: CHEM 2511/2511L
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

Savannah State University

# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 3302
   New: CHEM 3602K

2. **Course Title**
   Current: Chemical Research
   New: Same

3. **Catalog Description**
   Current: Supervised research including literature search, laboratory experimentation, and interpretation and presentation of
   New: Same

4. **Rationale**: Course number is changed to conform with the assignment of numbers to the traditional divisions of chemistry.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 2
   New: 2

7. **Pre-requisites**
   Current: Junior Standing
   New: CHEM 2101K, CHEM 2511/2511L, CHEM 3201K and CHEM 3411K
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 4101
   New: CHEM 3801

2. **Course Title**
   Current: Biochemistry
   New: Same

3. **Catalog Description**
   Current: Structure and function of proteins, nucleic acids, carbohydrates, and lipids. Emphasis on mechanistic analysis of metabolic pathways and enzymes activity.
   New: Same

4. **Rationale**: Course number is changed to conform with the assignment of numbers to the traditional divisions of chemistry.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 3

7. **Pre-requisites**
   Current: CHEM 2511 and BIOL 1108
   New: Same
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 4111
   New: CHEM 4801

2. **Course Title**
   Current: Advanced Biochemistry
   New: Same

3. **Catalog Description**
   Current: Recent advances in medical biochemistry with clinical correlations. Biochemistry of metabolic diseases, neuroendocrine and reproductive biochemistry, signal transduction, receptor chemistry, transcriptional regulation, cancer biochemistry, and oncogenes and oncoproteins**.**
   New: Same

4. **Rationale**: Course number is changed to conform with the assignment of numbers to the traditional divisions of chemistry.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 3

7. **Pre-requisites**
   Current: CHEM 4101
   New: CHEM 3801
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# New Programs and Curriculum Committee
# Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 4121
   New: CHEM 4201

2. **Course Title**
   Current: Advanced Inorganic Chemistry
   New: Same

3. **Catalog Description**
   Current: Principles of inorganic chemistry with emphasis on atomic structure, chemical bonding, solid state, coordination chemistry, organic metallic chemistry, and acid-base theories. Chemistry of selected elements.
   New: Same

4. **Rationale**: Course number is changed to conform with the assignment of numbers to the traditional divisions of chemistry.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 3

7. **Pre-requisites**
   Current: CHEM 1212 and 3411
   New: CHEM 3201K
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

# Savannah State University

## New Programs and Curriculum Committee
## Course Change Page – Form IV

1. **Course Number**
   Current: CHEM 4201
   New: CHEM 4532

2. **Course Title**
   Current: Medicinal Chemistry
   New: Same

3. **Catalog Description**
   Current: Synthesis, structure, and mode of action of therapeutically active compounds. Design of pharmaceutical agents based on enzyme mechanism, structure activity relationships, and computer modeling.
   New: Same

4. **Rationale**: Course number is changed to conform with the assignment of numbers to the traditional divisions of chemistry.

5. **Library Resource Statement**
   Existing: Click here to enter text.
   Additional: Click here to enter text.
   Deletions: Click here to enter text.

6. **Credit Hours**
   Current: 3
   New: 3

7. **Pre-requisites**
   Current: CHEM 2511 and 3801
   New: Same
   Deletions: Click here to enter text.

8. **Syllabus**: Click here to enter text.

9. **Similarity to or Duplication of Existing Courses:** Click here to enter text.

10. **Textbook Change (include title, author and ISBN#)**
    Current: Click here to enter text.
    New: Click here to enter text.

11. **Grading Method**
    Current: Click here to enter text.
    New: Click here to enter text.

## Summary of the Revisions

### I. Deleted Courses

| Course Code | Course Name | Hours |
|---|---|---|
| CHEM 2101 | Laboratory Synthesis | 2 hours |
| CHEM 3101L | Analytical Chemistry Lab | 1 hour |
| CHEM 3201L | Instrumental Analysis Lab | 1 hour |
| CHEM 3401L | Physical Chemistry Lab I | 1 hour |
| CHEM 3411L | Physical Chemistry Lab II | 1 hour |
| CHEM 4301L | Chemistry of the Environment | 1 hour |
| CHEM 4601L | Polymer Chemistry Lab | 1 hour |

### II. Other Courses Deleted from the Curriculum

| | | |
|---|---|---|
| CSCI 1301 | Computer Science I | 3 hours |
| Languages | Spanish/German/French | 6 hours |
| CHEM | Calculus III (ACS Certified degree) | 4 hours |

### III. Changed Course Codes

| Old Code | New Code | Course Name | Hours |
|---|---|---|---|
| CHEM 3101 | CHEM 3101K | Analytical Chemistry | 4 hours |
| CHEM 3201 | CHEM 3111K | Instrumental Analysis | 4 hours |
| CHEM 3401 | CHEM 3401K | Physical Chemistry I | 4 hours |
| CHEM 3411 | CHEM 3411K | Physical Chemistry II | 4 hours |
| CHEM 3522 | CHEM 3522L | Advanced Synthesis Laboratory | 2 hours |
| CHEM 3302 | CHEM 3602 | Chemical Research | 2 hours |
| CHEM 4101 | CHEM 3801 | Biochemistry | 3 hours |
| CHEM 4111 | CHEM 4801 | Advanced Biochemistry | 3 hours |
| CHEM 4121 | CHEM 4201 | Advanced Inorganic Chemistry | 3 hours |
| CHEM 4201 | CHEM 4532 | Medicinal Chemistry | 3 hours |

### IV. New Courses

| | | |
|---|---|---|
| CHEM 2601K | Chemistry Research Methods | 2 hours |
| CHEM 3201K | Inorganic Chemistry | 4 hours |
| CHEM 4111 | Bioanalytical Chemistry | 3 hours |
| CHEM 4401 | Advanced Physical Chemistry | 3 hours |

### V. Other Courses Added to the Curriculum

| | | |
|---|---|---|
| MATH 3101 | Linear Algebra (ACS Certified degree) | 3 hours |