REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING AN UNDERGRADUATE CURRICULUM

Department: CHEMISTRY
College: SCIENCE
Name of Curriculum/Major: CHEMISTRY
Type of Degree: BS
Date: 03/20/2013

Has this change been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected [Le. any department whose course(s) are to be added.]
ATTACH FORM D ADDENDUM for all new curricula or changes involving General Education courses.

ACTION (check appropriate box):

( ) ADDING: The entire new curriculum, by semester, must be typed on plain sheets and attached to Form D. (See sample layout attached.)

( X ) CHANGING: Regardless if all semesters of a curriculum are to be changed or only parts, the present and proposed (eight-semester) recommended path should be attached on separate pages. On the Present recommended path, use strikeout and on the Proposed recommended path, highlight areas to identify deletions and additions. Do not use boldface to designate changes as boldface is reserved for critical requirements within the recommended path. Explain all changes adequately on attachment.

) SUSPENDING: Provide an adequate explanation for suspending the curriculum on plain sheets and attach.

) DROPPING: Provide an adequate explanation for dropping the curriculum on plain sheets and attach.

CURRICULUM

<table>
<thead>
<tr>
<th>PRESENT</th>
<th>PROPOSED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total semester hours in current curriculum:</td>
<td>120</td>
</tr>
<tr>
<td>Total semester hours in proposed curriculum:</td>
<td>120*</td>
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<tr>
<td>*Sec. Ed. Concentration will change to 121-122 hours</td>
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</tr>
</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: 03/20/2013
Department Chair’s Signature: 7/31/13

College Faculty Approval Date: 10/3/13
College Dean’s Signature: 11/10/13

Chair, FS C & C Committee: 10/09/13
Academic Affairs Approval: 5/18/13

College Contact: Kim Kubicke
(Please print name.)
College Contact E-mail: kubicek@lsu.edu
CHANGES IN CHEMISTRY CURRICULUM

JUSTIFICATION:

The changes to the CHEMISTRY curriculum are needed to change our required Physics courses (PHYS 2101 and PHYS 2102) to new courses the Physics Department has created. The courses of PHYS 1100 (the prerequisite of PHYS 2101), PHYS 2101 and PHYS 2102 are now replaced by PHYS 2110, 2112 & 2113. Previously, the Chemistry curriculum did not require PHYS 1100 since it was only the prerequisite for PHYS 2101 and students could take a placement exam for the PHYS 1100. With the new changes in the Physics courses, our department decided to require all three courses.

Overall these changes are achieved by a) removing both PHYS 2101 and PHYS 2102; b) adding PHYS 2110, PHYS 2112, and PHYS 2113; and c) reducing the number of Approved Electives by 3 credit hours. The exception to these changes is found in the Chemistry with Secondary Education Concentration, which only has 1-2 credit hours of Approved Electives. In this case, the Approved Electives are deleted and the total number of hours is increased to 121-122 hrs.

Since both the PHYS 2112 & 2113 have PHYS 2110 as their prerequisites and can be taken in any order; the Chemistry curriculum is placing PHYS 2113 before PHYS 2112. The course material in PHYS 2113 more closely aligns with the old PHYS 2102. So in separate paperwork, we are also changing the prerequisites of CHEM 3491 from PHYS 2102 to PHYS 2113. Thus the sequence of Physics courses will be PHYS 2110, PHYS 2113 and then PHYS 2112.

Other changes are found in the Critical Requirements. In Semester 4 Critical Requirements, PHYS 2101 is replaced by PHYS 2110 and Semester 5 Critical Requirements, PHYS 2102 is replaced by PHYS 2113. This is the same for all concentrations.

The summary of changes for each concentration as found in the semester-by-semester plans are listed below. To balance the number of hours in each semester, typically a Gen. Ed. Course is moved from Sem. 5 to Sem. 8; and the approved electives are reduced by 3 hours in Sem. 8.

CHEM with Chemistry Concentration:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. SS to Sem. 8
- Sem. 8: delete Approved Electives (3 hrs)

CHEM with Biological Chemistry Concentration:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. Humanities (English Lit) to Sem. 7
- Sem. 7: move Gen. Ed. SS to Sem. 8
- Sem. 8: reduce Approved Electives by 3 hrs

CHEM with Chemical Physics Concentration:
- 5em. 3: delete PHYS 2101; add PHYS 2110
- 5em. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. 55 to 5em. 8
- 5em. 8: reduce Approved Electives by 3 hrs
CHEM with Environmental Chemistry:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. SS to Sem. 8
- Sem. 8: reduce Approved Electives by 3 hrs

CHEM with Materials:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. SS to Sem. 8
- Sem. 8: delete Approved Electives (3 hrs)

CHEM with Polymers:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. SS to Sem. 8
- Sem. 8: reduce Approved Electives by 3 hrs
- Footnote 2: change words materials chemistry to polymer research
  (the words polymer research were accidentally left as materials chemistry in the movement from print catalog to on-line catalog)

CHEM with Pre-Professional Chemistry:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. SS to Sem. 8
- Sem. 8: reduce Approved Electives by 3 hrs

CHEM with Second Discipline:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move Gen. Ed. SS to Sem. 8
- Sem. 8: reduce Approved Electives by 3 hrs
- Add a superscript 3 behind CHEM 3900 in Semester 7 to indicate a new footnote.
- Add third footnote.
  (The print catalog specified two semester hours of CHEM 3900; but the on-line catalog it just shows the course which is a variable hours course. Similar footnotes are used with the other concentrations to specify required number of hours and field of research.)

CHEM with Secondary Education Concentration:
- Sem. 3: delete PHYS 2101; add PHYS 2110
- Sem. 4: delete PHYS 2102; add PHYS 2113
- Sem. 5: add PHYS 2113; move PHIL 2786 to 5em. 6
- Sem. 6: delete Approved Electives (2-1 hrs)
- Change total hours from 120 to 121-122
CHEMISTRY with Biological Chemistry Concentration

Semester 4
CRITICAL: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity and Magnetism (3)
- PHYS 2109 General Physics laboratory (1)
- CHEM 2262 Organic Chemistry (3) or
  CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or
  CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)
  Total Semester Hours: 15

Semester 5
CRITICAL: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- BIOL 2051 General Microbiology (4) or
  BIOL 2153 Principles of Genetics (4)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign language Sequence (4)
  Total Semester Hours: 14

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- CHEM 4564 Advanced Organic and Inorganic laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- General Education course - Social Sciences (3)
  Total Semester Hours: 15-16

Semester 7

- BIOL 4093 General Biochemistry I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- CHEM 3900 Chemical Problems (1-3) or
  BIOL 3999 Undergraduate Research in Biological Sciences (1-3)
- General Education course - Humanities (English/Honors 2000-level) (3)
  Total Semester Hours: 13

Semester 8

- BIOL 4094 General Biochemistry II (3)
- BIOL 4385 Biochemistry Laboratory (3)
- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- General Education course - Social Sciences (3)
- Approved Elective (4-3)
  Total Semester Hours: 15-14

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. CHEM 3900 in an approved biological chemistry project or BIOL 3999 including a comprehensive written report filed with the Department of Chemistry's Undergraduate Office.

**The biological chemistry, pre-professional, and secondary education concentrations also require BIOL 1208 and BIOL 1209 laboratories.**
CHEMISTRY with Biological Chemistry Concentration

PROPOSED:

Biological Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

Semester 1

CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- BIOL 1208 Biology Laboratory for Science Majors I (1)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)

Total Semester Hours: 15

Semester 2

CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- BIOL 1209 Biology Laboratory for Science Majors II (1)
- CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
- MATH 1552 Analytic Geometry and Calculus II (4)
- General Education course Arts (3)

Total Semester Hours: 16

Semester 3

CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2110 Particle Mechanics (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Biological Chemistry Concentration

Semester 4

CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2102. 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2102 General Physics for Technical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)

Total Semester Hours: 15

Semester 5

CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2402. 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- BIOL 2051 General Microbiology (4) or BIOL 2153 Principles of Genetics (4)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000 level) (3)

Total Semester Hours: 14

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- CHEM 4564 Advanced Organic and Inorganic Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- General Education course - Social Sciences (3)

Total Semester Hours: 15-16

Semester 7

- BIOL 4093 General Biochemistry I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- CHEM 3900 Chemical Problems (1-3) or BIOL 3999 Undergraduate Research in Biological Sciences (1-3)
- General Education course - Social Sciences (3)

Total Semester Hours: 13

Semester 8

- BIOL 4094 General Biochemistry II (3)
- BIOL 4385 Biochemistry Laboratory (3)
- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- Approved Elective (7-6)

Total Semester Hours: 15-14

120 Total Sem. Hrs.

1_ One General Education Social Science course must be at least 2000-level.
2_ CHEM 3900 in an approved biological chemistry project or BIOL 3999 including a comprehensive written report filed with the Department of Chemistry’s Undergraduate Office.

**The biological chemistry, pre-professional, and secondary education concentrations also require BIOL 1208 and BIOL 1209 laboratories.
CHEMISTRY with Biological Chemistry Concentration

PRESENT

Biological Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 21Q1; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 21Q2; 2.0 Cumulative, LSU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

Semester 1

CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- BIOL 1208 Biology Laboratory for Science Majors I (1)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)

Total Semester Hours: 15

Semester 2

CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- BIOL 1209 Biology Laboratory for Science Majors II (1)
- CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
- MATH 1552 Analytic Geometry and Calculus II (4)
- General Education course - Arts (3)

Total Semester Hours: 16

Semester 3

CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 21Q1 General Physics for Technical Students (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Chemistry Concentration

PRESENT

Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

Recommended for preparation as a chemical professional or for entrance to graduate study in chemistry. Students completing this concentration will receive American Chemical Society certification.

Semester 1

CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or
  CHEM 1421 HONORS: General Chemistry (3)
- General Education course Arts (3)

Total Semester Hours: 17

Semester 2

CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or
  CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or
  CHEM 1431 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)

Total Semester Hours: 15

Semester 3

CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2101 General Physics for Technical Students (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or
  CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Chemistry Concentration

**Semester 4**

CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2109; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2110 General Physics for Technical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Computer Science Programming Course (3)

Total Semester Hours: 15

**Semester 5**

CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2109; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Social Sciences (3)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

**Semester 6**

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Approved Electives (4-3)

Total Semester Hours: 13

**Semester 7**

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Chemistry Elective (3)

Total Semester Hours: 13

**Semester 8**

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- CHEM 4564 Advanced Organic and Inorganic Laboratory (3)
- CHEM 4571 Organometallic Chemistry (3)
- Chemistry Elective (3)
- Approved Electives (3)

Total Semester Hours: 14

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Two semester hours of CHEM 3900 in an approved chemistry project.
3. CHEMISTRY ELECTIVES: CHEM 3900 (additional hours), CHEM 4010, CHEM 4011, CHEM 4150, CHEM 4160, CHEM 4556, CHEM 4557, CHEM 4558, CHEM 4559, CHEM 4561, CHEM 4562, CHEM 4563, CHEM 4571, CHEM 4581, CHEM 4594, CHEM 4597.
CHEMISTRY with Chemistry Concentration

PROPOSED:
Chemistry

CRITICAL REQUIREMENTS
SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

Recommended for preparation as a chemical professional or for entrance to graduate study in chemistry. Students completing this concentration will receive American Chemical Society certification.

Semester 1
CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1201 Biology for Science Majors I (3)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
- General Education course - Arts (3)
  Total Semester Hours: 17

Semester 2
CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1202 Biology for Science Majors II (3)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)
  Total Semester Hours: 15

Semester 3
CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2110 Particle Mechanics (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)
  Total Semester Hours: 17
CHEMISTRY with Chemistry Concentration

Semester 4
CRITICAL: or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGI2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity, and Magnetism (3)
- PHYS 2109 General Physics laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Computer Science Programming Course (3)
  Total Semester Hours: 15

Semester 5
CRITICAL: or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)
  Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Approved Electives (4-3)
  Total Semester Hours: 13

Semester 7

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Chemistry Elective (3)
  Total Semester Hours: 13

SemesterS

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- CHEM 4564 Advanced Organic and Inorganic Laboratory (3)
- CHEM 4571 Organometallic Chemistry (3)
- Chemistry Elective (3)
- General Education course - Social Sciences (3)
  Total Semester Hours: 14

120 Total Sem. Hrs.

1 _One General Education Social Science course must be at least 2000-level.
2 _Two semester hours of CHEM 3900 in an approved chemistry project.
3 _CHEMISTRY ELECTIVES: CHEM 3900 (additional hours), CHEM 4010, CHEM 4011, CHEM 4150, CHEM 4160, CHEM 4556, CHEM 4557, CHEM 4558, CHEM 4559, CHEM 4561, CHEM 4562, CHEM 4563, CHEM 4571, CHEM 4581, CHEM 4594, CHEM 4597.
CHEMISTRY with Chemical Physics Concentration

Chemical Physics

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

Semester 1
CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

• BIOL 1201 Biology for Science Majors I (3)
• ENGL 1001 English Composition (3)
• MATH 1550 Analytic Geometry and Calculus I (5)
• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
• General Education course - Arts (3)

Total Semester Hours: 17

Semester 2
CRITICAL: or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

• BIOL 1202 Biology for Science Majors II (3)
• MATH 1552 Analytic Geometry and Calculus II (4)
• CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
• CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
• Approved Elective (3)

Total Semester Hours: 15

Semester 3
CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

• CHEM 2001 Analytical Chemistry
• CHEM 2002 Analytical Chemistry Laboratory (1)
• MATH 2057 Multidimensional Calculus (3)
• PHYS 2101 General Physics for Technical Students (3)
• PHYS 2108 Introductory Physics Laboratory (1)
• CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
• Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Chemical Physics Concentration

Semester 4
CRITICAL: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2102 General Physics for Technical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- MATH 2065 Elementary Differential Equations (3) or MATH 2085 Linear Algebra (3) or MATH 2090 Elementary Differential Equations and Linear Algebra (4)

Total Semester Hours: 15-16

Semester 5
CRITICAL: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- Computer Science Programming Course (3)
- Computer Science Programming Course (3)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Physics Electives (3-4)

Total Semester Hours: 12-13

Semester 7

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- Physics Elective (3)
- General Education course - Social Sciences (3)

Total Semester Hours: 14

Semester 8

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- BIOL 2083 The Elements of Biochemistry (3)
- Chemistry Elective (3)
- Approved Elective (6-4)

Total Semester Hours: 14-12

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Three semester hours of CHEM 3900 in an approved physical chemistry project.
3. CHEMISTRY ELECTIVES: CHEM 4581, CHEM 4594, CHEM 4596, CHEM 4597.
4. Physics Electives: PHYS 2221, PHYS 2231, PHYS 2411, PHYS 4123, PHYS 4125, PHYS 4141, PHYS 4142, PHYS 4261
CHEMISTRY with Chemical Physics Concentration

PROPOSED:

Chemical Physics

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, ISU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, ISU and "Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, ISU and Semester GPA.

*Students completing this concentration will receive American Chemical Society certification.*

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<tr>
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<td>• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)</td>
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<td>• General Education course - Arts (3)</td>
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CHEMISTRY with Chemical Physics Concentration

Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity, and Magnetism (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or
  CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or
  CHEM 2463 HONORS: General Chemistry Laboratory (2)
- MATH 2065 Elementary Differential Equations (3) or
  MATH 2085 Linear Algebra (3) or
  MATH 2090 Elementary Differential Equations and Linear Algebra (4)

Total Semester Hours: 15-16

Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- Computer Science Programming Course (3)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Physics Electives (3)4

Total Semester Hours: 13

Semester 7

- CHEM 3900 Chemical Problems (1-3)2
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- Physics Elective (3)3
- General Education course - Social Sciences (3)1

Total Semester Hours: 14

Semester 8

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- BIOL 2083 The Elements of Biochemistry (3)
- Chemistry Elective (3)3
- General Education course - Social Sciences (3)1
- Approved Electives (3-1)

Total Semester Hours: 14-12

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Three semester hours of CHEM 3900 in an approved physical chemistry project.
3. CHEMISTRY ELECTIVES: CHEM 4581, CHEM 4594, CHEM 4596, CHEM 4597.
4. Physics Electives: PHYS 2221, PHYS 2231, PHYS 2411, PHYS 4123, PHYS 4125, PHYS 4141, PHYS 4142, PHYS 4261
CHEMISTRY with Second Discipline Concentration

PRESENT

Second Discipline

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

Semester 1
CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1201 Biology for Science Majors I (3)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or
  CHEM 1421 HONORS: General Chemistry (3)
- General Education course - Arts (3)
Total Semester Hours: 17

Semester 2
CRITICAL: or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
- BIOL 1202 Biology for Science Majors II (3)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or
  CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or
  CHEM 1431 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)
Total Semester Hours: 15

Semester 3
CRITICAL: or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2101 General Physics for TDA & Students (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or
  CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)
Total Semester Hours: 17
CHEMISTRY with Second Discipline Concentration

**Semester 4**

**CRITICAL:** “C” or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2102 GeAeral Physics for TecRAical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Second Discipline Course (3)

Total Semester Hours: 15

**Semester 5**

**CRITICAL:** “C” or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry 1(3)
- Second Discipline Course (3)
- First Course in Foreign Language Sequence (4)
- GeAeral Education course - Social ScieAces (3)\(^1\)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

**Semester 6**

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Approved Electives (4-3)

Total Semester Hours: 13

**Semester 7**

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- Second Discipline Course (3)
- General Education course - Social Sciences (3)

Total Semester Hours: 13

**Semester 8**

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- Second Discipline Courses (6)

\[\text{Approved Elective (6)}\]

Total Semester Hours: 14

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Second discipline courses: Courses should form a coherent sequence in one department with at least three courses numbered 3000 or above. If courses are from more than one department, student must obtain a minor in that discipline. Selection of the concentration courses should be completed and approved by the department and dean’s office by the end of the sophomore year.
CHEMISTRY with Second Discipline Concentration

PROPOSED:
Second Discipline

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and (HEM 1201/HEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

Semester 1
CRITICAL: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
• BIOL 1201 Biology for Science Majors I (3)
• ENGL 1001 English Composition (3)
• MATH 1550 Analytic Geometry and Calculus I (5)
• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
• General Education course - Arts (3)
Total Semester Hours: 17

Semester 2
CRITICAL: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
• BIOL 1202 Biology for Science Majors II (3)
• MATH 1552 Analytic Geometry and Calculus II (4)
• CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
• CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
• Approved Elective (3)
Total Semester Hours: 15

Semester 3
CRITICAL: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
• CHEM 2001 Analytical Chemistry
• CHEM 2002 Analytical Chemistry Laboratory (1)
• MATH 2057 Multidimensional Calculus (3)
• PHYS 2110 Particle Mechanics (3)
• PHYS 2108 Introductory Physics Laboratory (1)
• CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
• Approved Elective (3)
Total Semester Hours: 17
CHEMISTRY with Second Discipline Concentration

Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

• ENGL 2000 English Composition (3)
• PHYS 2113 Fields: Gravity, Electricity, and Magnetism (3)
• PHYS 2109 General Physics Laboratory (1)
• CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
• CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
• Second Discipline Course (3)

Total Semester Hours: 15

Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

• CHEM 3491 Physical Chemistry I (3)
• PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
• Second Discipline Course (3)
• First Course in Foreign Language Sequence (4)
• General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

Semester 6

• CHEM 3492 Physical Chemistry II (3)
• CHEM 3493 Physical Chemistry Laboratory (3)
• General Education course - Humanities (English) or Second Course in Foreign Language Sequence
• Approved Electives

Total Semester Hours: 13

Semester 7

• CHEM 3900 Chemical Problems (1-3)\(^3\)
• CHEM 4552 Instrumental Characterization of Organic Compounds (2)
• CHEM 4570 Advanced General Inorganic Chemistry (3)
• Second Discipline Course (3)
• General Education course - Social Sciences (3)

Total Semester Hours: 13

Semester 8

• CHEM 4553 Instrumental Characterization of Organic Compounds (2)
• Second Discipline Course (6)
• General Education course Social Sciences (3)
• Approved Elective (3)

Total Semester Hours: 14

120 Total Sem. Hrs.

1- One General Education Social Science course must be at least 2000-level.
2- Second discipline courses: Courses should form a coherent sequence in one department with at least three courses numbered 3000 or above. If courses are from more than one department, student must obtain a minor in that discipline. Selection of the concentration courses should be completed and approved by the department and dean's office by the end of the sophomore year.
3- Two semester hours of CHEM 3900 in an approved chemistry project.
CHEMISTRY with Environmental Chemistry Concentration

PRESENT

Environmental Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

Semester 1
CRITICAL: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
- General Education course - Arts (3)

Total Semester Hours: 17

Semester 2
CRITICAL: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)

Total Semester Hours: 15

Semester 3
CRITICAL: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2101 General Physics for Technical Students (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Environmental Chemistry Concentration

Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2191; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2102 General Physics for Technical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Computer Science Programming Course (3)

Total Semester Hours: 15

Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2192; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- First Course in Foreign Language Sequence (4)
  - General Education course - Social Sciences (3)
  - General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- CHEM 4150 Environmental Chemistry (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)

Total Semester Hours: 12-13

Semester 7

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Environmental Elective (3)

Total Semester Hours: 13

Semester

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- Environmental Elective (3)
  - Approved Elective (19-9)

Total Semester Hours: 15

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Environmental Electives: EVEG 3145; ENVS 4500, ENVS 4477; GEOL 4043, 4081; OCS 4040, OCS 4165
3. Two semester hours of CHEM 3900 in an approved environmental chemistry project.
CHEMISTRY with Environmental Chemistry Concentration

PROPOSED:

Environmental Chemistry

CRITICAL REQUIREMENTS

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Students completing this concentration will receive American Chemical Society certification.

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<td>• Approved Elective (3)</td>
</tr>
<tr>
<td>Total Semester Hours: 17</td>
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</table>
CHEMISTRY with Environmental Chemistry Concentration

Semester 4
CRITICAL: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity, and Magnetism (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Computer Science Programming Course (3)
  
Total Semester Hours: 15

Semester 5
CRITICAL: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)
  
Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- CHEM 4150 (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
  
Total Semester Hours: 12-13

Semester 7

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Environmental Elective (3)
  
Total Semester Hours: 13

Semester 8

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- Environmental Elective (3)
- General Education course - Social Sciences (3)
- Approved Electives (7-6)
  
Total Semester Hours: 15-14

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Environmental Electives: EVEG 3145; ENVS 4500, ENVS 4477; GEOL 4043, 4081; OCS 4040, OCS 4165
3. Two semester hours of CHEM 3900 in an approved environmental chemistry project.
CHEMISTRY with Materials Concentration

PRESENT

Materials

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGl 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, ISU and Semester GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, ISU and Semester GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, ISU and Semester GPA.

Students completing this concentration will receive American Chemical/Society certification.

Semester 1
CRITICAL: "C" or better in ENGl 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
• BIOL 1201 Biology for Science Majors I (3)
• ENGl 1001 English Composition (3)
• MATH 1550 Analytic Geometry and Calculus I (5)
• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
• General Education course - Arts (3)
Total Semester Hours: 17

Semester 2
CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
• BIOI 1202 Biology for Science Majors II (3)
• MATH 1552 Analytic Geometry and Calculus II (4)
• CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
• CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry laboratory (2)
• Approved Elective (3)
Total Semester Hours: 15

Semester 3
CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
• CHEM 2001 Analytical Chemistry
• CHEM 2002 Analytical Chemistry laboratory (1)
• MATH 2057 Multidimensional Calculus (3)
• PHYS 2101 GeReral Physics for TeerReal Students (3)
• PHYS 2108 Introductory Physics laboratory (1)
• CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
• Approved Elective (3)
Total Semester Hours: 17
CHEMISTRY with Materials Concentration

Semester 4
CRITICAL: or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2102 General Physics for Technical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- ME 2733 Materials of Engineering (3)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)

Total Semester Hours: 15

Semester 5
CRITICAL: or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- First Course in Foreign Language Sequence (4)
- General Education course Social Science (3)
- General Education course - Humanities (English/Honors 2000-level) (3)
- Computer Science Programming Course (3)

Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- ME 3701 Materials of Engineering Laboratory (1)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Approved Electives (3-2)

Total Semester Hours: 13

Semester 7

- CHEM 3900 Chemical Problems (1-3)
- CHEM 4010 Macromolecular Systems I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)

Total Semester Hours: 13

Semesters

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- CHEM 4564 Advanced Organic and Inorganic Laboratory (3)
- ME 4723 Advanced Materials Analysis (3)
- BIOL 2083 The Elements of Biochemistry (3)
- Approved Elective (3)

Total Semester Hours: 14

120 Total Sem. Hrs.

1 One General Education Social Science course must be at least 2000-level.
2 Two semester hours of CHEM 3900 in an approved materials chemistry project.
CHEMISTRY with Materials Concentration

PROPOSED:

**Materials**

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

*Students completing this concentration will receive American Chemical Society certification.*

**Semester 1**

CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
- General Education course - Arts (3)
- Total Semester Hours: 17

**Semester 2**

CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)
- Total Semester Hours: 15

**Semester 3**

CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2110 Particle Mechanics (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)
- Total Semester Hours: 17
CHEMISTRY with Materials Concentration

Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGI 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity, and Magnetism (3)
- PHYS 2109 General Physics Laboratory (1)
- ME 2733 Materials of Engineering (3)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)

Total Semester Hours: 15

Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry 1(3)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)
- Computer Science Programming Course (3)

Total Semester Hours: 16

Semester 6
- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- ME 3701 Materials of Engineering laboratory (1)
- General Education course - Humanities (English) or Second Course in Foreign language Sequence (3-4)
- Approved Electives (3-2)

Total Semester Hours: 13

Semester 7
- CHEM 3900 Chemical Problems (1-3)2
- CHEM 4010 Macromolecular Systems I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)1

Total Semester Hours: 13

Semester 8
- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- CHEM 4564 Advanced Organic and Inorganic laboratory (3)
- ME 4723 Advanced Materials Analysis (3)
- BIOL 2083 The Elements of Biochemistry (3)
- General Education course - Social Sciences (3)1

Total Semester Hours: 14

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Two semester hours of CHEM 3900 in an approved materials chemistry project.
CHEMISTRY with Polymer Concentration

PRESENT
Polymer

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, ISU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.</th>
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<tbody>
<tr>
<td></td>
<td>• BIOL 1201 Biology for Science Majors I (3)</td>
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<td>• ENGL 1001 English Composition (3)</td>
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<td>• MATH 1550 Analytic Geometry and Calculus I (5)</td>
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<td></td>
<td>• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)</td>
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<td>• General Education course - Arts (3)</td>
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<td>Total Semester Hours: 17</td>
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<table>
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<th>Semester 2</th>
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<td>• BIOL 1202 Biology for Science Majors II (3)</td>
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<tr>
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<td>• MATH 1552 Analytic Geometry and Calculus II (4)</td>
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<td>• CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)</td>
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<td>• CHEM 1212 General Chemistry laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)</td>
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<td>• Approved Elective (3)</td>
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<td>Total Semester Hours: 17</td>
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<table>
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<tr>
<th>Semester</th>
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<td>• CHEM 2001 Analytical Chemistry</td>
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<td>• PHYS 2108 Introductory Physics Laboratory (1)</td>
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<td></td>
<td>• CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)</td>
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<td>• Approved Elective (3)</td>
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<td>Total Semester Hours: 17</td>
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### Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and **PHYS 21O2**; 2.0 Cumulative, LSU and Semester GPA.
- **ENGL 2000** English Composition (3)
- **PHYS 21O2** General Physics (3)
- **PHYS 21O9** General Physics Laboratory (1)
- **CHEM 2262** Organic Chemistry (3) or **CHEM 2462** HONORS: Organic Chemistry (3)
- **CHEM 2364** Organic Chemistry Laboratory (2) or **CHEM 2463** HONORS: General Chemistry Laboratory (2)
- Computer Science Programming Course (3)

Total Semester Hours: 15

### Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and **PHYS 21O2**; 2.0 Cumulative, LSU and Semester GPA.
- **BIOL 2083** The Elements of Biochemistry (3)
- **CHEM 3491** Physical Chemistry I (3)
- First Course in Foreign Language Sequence (4)
- **General Education course - Social Sciences** (3)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

### Semester 6
- **CHEM 3492** Physical Chemistry II (3)
- **CHEM 3493** Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Approved Electives (4-3)

Total Semester Hours: 13

### Semester 7
- **CHEM 3900** Chemical Problems (1-3)2
- **CHEM 4010** Macromolecular Systems I (3)
- **CHEM 4552** Instrumental Characterization of Organic Compounds (2)
- **CHEM 4570** Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)1

Total Semester Hours: 13

### Semester 8
- **CHEM 4553** Instrumental Characterization of Organic Compounds (2)
- **CHEM 4011** Macromolecular Systems II (3)
- **CHEM 4564** Advanced Organic and Inorganic Laboratory (3)
- **Approved Elective** (6)

Total Semester Hours: 14

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**120 Total Sem. Hrs.**

1. One General Education Social Science course must be at least 2000-level.
2. Two semester hours of CHEM 3900 in an approved chemistry research project.
CHEMISTRY with Polymer Concentration

PROPOSED:
Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

Semester 1
CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
• BIOL 1201 Biology for Science Majors I (3)
• ENGL 1001 English Composition (3)
• MATH 1550 Analytic Geometry and Calculus I (5)
• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)
• General Education course Arts (3)
Total Semester Hours: 17

Semester 2
CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
• BIOL 1202 Biology for Science Majors II (3)
• MATH 1552 Analytic Geometry and Calculus II (4)
• CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
• CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
• Approved Elective (3)
Total Semester Hours: 15

Semester 3
CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
• CHEM 2001 Analytical Chemistry
• CHEM 2002 Analytical Chemistry Laboratory (1)
• MATH 2057 Multidimensional Calculus (3)
• PHYS 2110 Particle Mechanics (3)
• PHYS 2108 Introductory Physics Laboratory (1)
• CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
• Approved Elective (3)
Total Semester Hours: 17
CHEMISTRY with Polymer Concentration

Semester 4

CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity, and Magnetism (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Computer Science Programming Course (3)

Total Semester Hours: 15

Semester 5

CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Approved Electives (4-3)

Total Semester Hours: 13

Semester 7

- CHEM 3900 Chemical Problems (1-3)2
- CHEM 4010 Macromolecular Systems I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)1

Total Semester Hours: 13

Semester 8

- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- CHEM 4011 Macromolecular Systems II (3)
- CHEM 4564 Advanced Organic and Inorganic Laboratory (3)
- General Education course - Social Sciences (3)1
- Approved Electives (3)

Total Semester Hours: 14

120 Total Sem. Hrs.

1. One General Education Social Science course must be at least 2000-level.
2. Two semester hours of CHEM 3900 in an approved polymer research project.
CHEMISTRY with Pre-Professional Chemistry Concentration

PRESENT

Pre-Professional Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Cumulative, LSU and Semester GPA.

Semester 1
CRITICAL: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- BIOL 1208 Biology Laboratory for Science Majors I (1)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)

Total Semester Hours: 14

Semester 2
CRITICAL: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- BIOL 1209 Biology Laboratory for Science Majors II (1)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
- General Education course Arts (3)

Total Semester Hours: 16

Semester 3
CRITICAL: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2104 General Physics for Technical Students (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Pre-Professional Chemistry Concentration

Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2102, 2.0 Cumulative, LSU and Semester GPA.

- ENGI 2000 English Composition (3)
- PHYS 2102 General Physics for Technical Students (3)
- PHYS 2109 General Physics laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)
Total Semester Hours: 15

Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2102, 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- Pre-Professional Electives (4)
- First Course in Foreign language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)
- General Education course - Social Sciences (3)
Total Semester Hours: 11

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Pre-Professional Electives (4)
Total Semester Hours: 13-14

Semester 7

- BIOL 4093 General Biochemistry I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Approved Elective (3)
Total Semester Hours: 14

Semesters

- BIOL 4094 General Biochemistry II (3)
- BIOL 4385 Biochemistry Laboratory (3)
- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- Approved Elective (5-4)
Total Semester Hours: 13-12

120 Total Sem. Hrs.

1. Preprofessional Electives: BIOI2051, BIOL 2153, BIOL 3156, BIOL 3152 or BIOL 4160; two semester hours of CHEM 3900 or BIOL 3999 in an approved project.

2. One General Education Social Science course must be at least 200-level.

**The biological chemistry, pre-professional, and secondary education concentrations also require BIOL 1208 and BIOL 1209 laboratories.
CHEMISTRY with Pre-Professional Chemistry Concentration

PROPOSED:

Biological Chemistry

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

Students completing this concentration will receive American Chemical Society certification.

Semester 1

CRITICAL: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1201 Biology for Science Majors I (3)
- BIOL 1208 Biology Laboratory for Science Majors I (1)
- ENGL 1001 English Composition (3)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or
  CHEM 1421 HONORS: General Chemistry (3)

Total Semester Hours: 15

Semester 2

CRITICAL: "C" or better in MATH 1550/MATH 1551; 2.0 Cumulative, LSU and Semester GPA.

- BIOL 1202 Biology for Science Majors II (3)
- BIOL 1209 Biology Laboratory for Science Majors II (1)
- MATH 1552 Analytic Geometry and Calculus II (4)
- CHEM 1202 General Chemistry I (3) or
  CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or
  CHEM 1431 HONORS: General Chemistry Laboratory (2)
- General Education course - Arts (3)

Total Semester Hours: 16

Semester 3

CRITICAL: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2110 Particle Mechanics (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- CHEM 2261 Organic Chemistry (3) or
  CHEM 2461 HONORS: Organic Chemistry (3)
- Approved Elective (3)

Total Semester Hours: 17
CHEMISTRY with Pre-Professional Chemistry Concentration

Semester 4
CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Cumulative, LSU and Semester GPA.

- ENGL 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity and Magnetism (3)
- PHYS 2109 General Physics Laboratory (1)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)
- Approved Elective (3)
  Total Semester Hours: 15

Semester 5
CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Cumulative, LSU and Semester GPA.

- CHEM 3491 Physical Chemistry I (3)
- Pre-Professional Electives (4)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)
  Total Semester Hours: 17

Semester 6

- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)
- Pre-Professional Electives (4)
  Total Semester Hours: 13-14

Semester 7

- BIOL 4093 General Biochemistry I (3)
- CHEM 4552 Instrumental Characterization of Organic Compounds (2)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Approved Elective (3)
  Total Semester Hours: 14

Semesters

- BIOL 4094 General Biochemistry II (3)
- BIOL 4385 Biochemistry Laboratory (3)
- CHEM 4553 Instrumental Characterization of Organic Compounds (2)
- General Education course - Social Sciences (3)
- Approved Elective (2-1)
  Total Semester Hours: 13-12

120 Total Sem. Hrs.

1. Preprofessional Electives: BIOL 2051, BIOL 2153, BIOL 3156, BIOL 3152 or BIOL 4160; two semester hours of CHEM 3900 or BIOL 3999 in an approved project.

2. One General Education Social Science course must be at least 2000-level.

**The biological chemistry, pre-professional, and secondary education concentrations also require BIOL 1208 and BIOL 1209 laboratories.**
CHEMISTRY with Secondary Education Concentration

PRESENT

Secondary Education

CRITICAL REQUIREMENTS

SEMESTER 1: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Semester GPA; 2.0 Cumulative and LSU GPA.
SEMESTER 2: "C" or better in MATH 1550/MATH 1551; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
SEMESTER 3: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
SEMESTER 4: "C" or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
SEMESTER 5: "C" or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

This concentration is part of the Geaux Teach-Math and Sciences Program. Students will obtain a degree in chemistry and, upon completing this concentration and meeting any additional requirements of the Louisiana Department of Education, will be eligible for certification in the state of Louisiana as teachers in grades 6-12.

Semester 1
CRITICAL: "C" or better in ENGL 1001 and CHEM 1201/CHEM 1421; 2.0 Semester GPA; 2.0 Cumulative and LSU GPA.
• BIOL 1201 Biology for Science Majors I (3)
• BIOL 1208 Biology Laboratory for Science Majors I (1)
• ENGL 1001 English Composition (3)
• BASC 2010 Inquiry Approaches to Math and Science Teaching (1)
• MATH 1550 Analytic Geometry and Calculus I (5)
• CHEM 1201 General Chemistry I (3) or CHEM 1421 HONORS: General Chemistry (3)

Total Semester Hours: 16

Semester 2
CRITICAL: "C" or better in MATH 1550/MATH 1551; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
• BIOL 1202 Biology for Science Majors II (3)
• BIOL 1209 Biology Laboratory for Science Majors II (1)
• MATH 1552 Analytic Geometry and Calculus II (4)
• BASC 2011 Inquiry-Based Math and Science Lesson Design (1)
• CHEM 1202 General Chemistry I (3) or CHEM 1422 HONORS: General Chemistry (3)
• CHEM 1212 General Chemistry Laboratory (2) or CHEM 1431 HONORS: General Chemistry Laboratory (2)
• General Education course - Arts (3)

Total Semester Hours: 17

Semester 3
CRITICAL: "C" or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
• CHEM 2001 Analytical Chemistry
• CHEM 2002 Analytical Chemistry Laboratory (1)
• MATH 2057 Multidimensional Calculus (3)
• PHYS 2101 General Physics for Technical Students (3)
• PHYS 2108 Introductory Physics Laboratory (1)
• EDCI 2500 Knowing and Learning in Mathematics and Science (3)
• CHEM 2261 Organic Chemistry (3) or CHEM 2461 HONORS: Organic Chemistry (3)

Total Semester Hours: 17
CHEMISTRY with Secondary Education Concentration

Semester 4
CRITICAL: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2101; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- ENGL 2000 English Composition (3)
- PHYS 2102 General Physics for Technical Students (3)
- PHYS 2109 General Physics Laboratory (1)
- EDCI 3550 Classroom Interactions (3)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)

Total Semester Hours: 15

Semester 5
CRITICAL: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2102; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- PHI 2786 Logic, Science and Society (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

Semester 6

- CHEM 4005 Science Research Methods (3)
- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence
  - Approved Electives (2-1)

Total Semester Hours: 14

Semester 7

- EDCI4500 Instructional Models for Mathematics and Science (3)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Chemistry Elective (3)

Total Semester Hours: 13

Semester 8

- EDC13136 Reading in the Content Areas (3)
- EDCI 4006 Student Teaching in Grades 6-12 Mathematics and Sciences (9)

Total Semester Hours: 12

120 Total Sem. Hrs.

1. CHEMISTRY ELECTIVES: CHEM 4010, CHEM 4011, CHEM 4150, CHEM 4160, CHEM 4552, CHEM 4553, CHEM 4556, CHEM 4557, CHEM 4558, CHEM 4559, CHEM 4561, CHEM 4562, CHEM 4563, CHEM 4564, CHEM 4571, CHEM 4581, CHEM 4594, CHEM 4597.

In addition, the student must take EDCI 2500 as one of the General Education Social Science courses. Students should plan their course work so that the last semester of the senior year can accommodate the 12 hours that are required to be taken concurrently (EDC14006 and EDCI 3136). BIOL 1208 and BIOL 1209 labs should be included in the freshman year.
CHEMISTRY with Secondary Education Concentration

PROPOSED:

Secondary Education

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001 and CHEM 1201/1421; 2.0 Semester GPA; 2.0 Cumulative and LSU GPA.
SEMESTER 2: “C” or better in MATH 1550/MATH 1551; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
SEMESTER 3: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
SEMESTER 4: “C” or better in CHEM 2261/CHEM 2461 and PHYS 2110; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.
SEMESTER 5: “C” or better in CHEM 2262/CHEM 2462 and PHYS 2113; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

This concentration is part of the Geaux Teach-Math and Sciences Program. Students will obtain a degree in chemistry and, upon completing this concentration and meeting any additional requirements of the Louisiana Department of Education, will be eligible for certification in the state of Louisiana as teachers in grades 6-12.

Semester 1

CRITICAL: “C” or better in ENGL 1001 and CHEM 1201/1421; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- BIOI 1201 Biology for Science Majors I (3)
- BIOI 1208 Biology laboratory for Science Majors I (1)
- ENGL 1001 English Composition (3)
- BASC 2010 Inquiry Approaches to Math and Science Teaching (1)
- MATH 1550 Analytic Geometry and Calculus I (5)
- CHEM 1201 General Chemistry I (3) or
- CHEM 1421 HONORS: General Chemistry (3)

Total Semester Hours: 16

Semester 2

CRITICAL: “C” or better in MATH 1550/MATH 1551; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- BIOL 1202 Biology for Science Majors II (3)
- BIOL 1209 Biology Laboratory for Science Majors (1)
- MATH 1552 Analytic Geometry and Calculus II (4)
- BASC 2011 Inquiry-Based Math and Science Lesson Design (1)
- CHEM 1202 General Chemistry I (3) or
- CHEM 1422 HONORS: General Chemistry (3)
- CHEM 1212 General Chemistry Laboratory (2) or
- CHEM 1431 HONORS: General Chemistry Laboratory (2)
- General Education course - Arts (3)

Total Semester Hours: 17

Semester 3

CRITICAL: “C” or better in CHEM 1212/CHEM 1431 and MATH 1552; Admission to the College; 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- CHEM 2001 Analytical Chemistry
- CHEM 2002 Analytical Chemistry Laboratory (1)
- MATH 2057 Multidimensional Calculus (3)
- PHYS 2110 Particle Mechanics (3)
- PHYS 2108 Introductory Physics Laboratory (1)
- EDCI2500 Knowing and Learning in Mathematics and Science (3)
- CHEM 2261 Organic Chemistry (3) or
- CHEM 2461 HONORS: Organic Chemistry (3)

Total Semester Hours: 17
CHEMISTRY with Secondary Education Concentration

**Semester 4**

CRITICAL: "C" or better in CHEM 2261/CHEM 2461 and J 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- ENGL 2000 English Composition (3)
- PHYS 2113 Fields: Gravity, Electricity and Magnetism (3)
- PHYS 2109 General Physics Laboratory (1)
- EDCI 3550 Classroom Interactions (3)
- CHEM 2262 Organic Chemistry (3) or CHEM 2462 HONORS: Organic Chemistry (3)
- CHEM 2364 Organic Chemistry Laboratory (2) or CHEM 2463 HONORS: General Chemistry Laboratory (2)

Total Semester Hours: 15

**Semester 5**

CRITICAL: "C" or better in CHEM 2262/CHEM 2462 and 2.0 Semester GPA; 2.5 Cumulative and LSU GPA.

- BIOL 2083 The Elements of Biochemistry (3)
- CHEM 3491 Physical Chemistry I (3)
- PHYS 2112 Fluids, Thermodynamics, Waves and Modern Physics (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Humanities (English/Honors 2000-level) (3)

Total Semester Hours: 16

**Semester 6**

- CHEM 4005 Science Research Methods (3)
- CHEM 3492 Physical Chemistry II (3)
- CHEM 3493 Physical Chemistry Laboratory (3)
- PHIL 2786 Logic, Science and Society (3)
- General Education course - Humanities (English) or Second Course in Foreign Language Sequence (3-4)

Total Semester Hours: 15-16

**Semester 7**

- EDCI 4500 Instructional Models for Mathematics and Science (3)
- CHEM 4570 Advanced General Inorganic Chemistry (3)
- General Education course - Social Sciences (3)
- Chemistry Elective (3)

Total Semester Hours: 13

**Semester 8**

- EDCI 3136 Reading in the Content Areas (3)
- EDCI 4006 Student Teaching in Grades 6-12 Mathematics and Sciences (9)

Total Semester Hours: 12

121-122 Total Sem. Hrs.

CHEMISTRY ELECTIVES: CHEM 4010, CHEM 4011, CHEM 4150, CHEM 4160, CHEM 4552, CHEM 4553, CHEM 4556, CHEM 4557, CHEM 4558, CHEM 4559, CHEM 4561, CHEM 4562, CHEM 4563, CHEM 4564, CHEM 4571, CHEM 4581, CHEM 4594, CHEM 4597.

In addition, the student must take EDCI 2500 as one of the General Education Social Science courses. Students should plan their course work so that the last semester of the senior year can accommodate the 12 hours that are required to be taken concurrently (EDCI 4006 and EDCI 3136). BIOL 1208 and BIOL 1209 labs should be included in the freshman year.
Linda Allen

From: Dana Browne <browne@phys.lsu.edu>
Sent: Tuesday, September 17, 2013 10:18 PM
To: Linda Allen
Subject: Re: Chem use of PHY$ 2110, 2112, 2113

Linda,

We support your change.

Dr. Dana Browne
Professor and Associate Chair
Dept. of Physics and Astronomy
Louisiana State University
219B Nicholson Hall
Baton Rouge LA 70803
(225) 578-6843
associatechair@phys.lsu.edu

On 9/17/2013 2:34 PM, Linda Allen wrote:

Dr. Dana Browne,
The Chemistry department is changing their curriculum from requiring PHYS 2101 (and therefore also its prerequisite, PHYS 1100) & PHYS 2102 and replacing it with your new Physics courses of PHYS 2110, 2112, 2113. In the 8-semester plans our Chemistry students would take PHYS 2110 & PHYS 2108 (lab) in semester 3, PHYS 2113 & PHYS 2109 (lab) in semester 4, and PHYS 2112 in semester 5. We are also proposing changing the Critical Requirements of Semester 4 from PHY$ 2101 to PHYS 2110 and the Critical Requirements of Semester 5 from PHYS 2102 to PHYS 2113.

In addition, the prerequisite of CHEM 3491 will change from requiring PHYS 1202 or PHYS 2102; and CHEM 1202 or 1,422; all three courses with a grade of "C" or better to requiring MATH 2057 or MATH 2090; PHYS 1202 or PHYS 2113; and CHEM 1202 or 1422; all three courses with a grade of "C" or better.

We request an email from you supporting our changes in requiring PHYS courses in our curriculum and in the prerequisites of CHEM 3491. This email will accompany our paperwork for these changes to SCI C&C committee and FS C&C committee.

If you have any questions or comments, please let me know.

Thanks,
Linda Allen

pro Linda R. Allen
Director of Undergraduate Laboratories
Department of Chemistry
College of Science
LSU
Lallen3@lsu.edu
(225) 578-2940 or 578-3954
REQUEST FOR ADDING, CHANGING, SUSPENDING OR DROPPING UNDERGRADUATE CONCENTRATION

Department: History      College: Humanities and Social Sciences
Name of Concentration: Secondary Education      Type of Degree: SA
Name of Curriculum/Major: History

Has this change been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) NIA ( )

ATTACH JUSTIFICATION for all actions: Use separate sheet.
ATTACH RESPONSE from any departments affected (i.e., any department whose course(s) are to be added.)

ACTION (check appropriate box):
( ) ADDING: List the entire catalog description of the new concentration. Use plain sheets and attach, if necessary.
( ) CHANGING: List present catalog description which is to be changed (left column) and the changes proposed (right column). Use strikeout and bold to indicate deletions and additions. Explain all changes adequately on attachment.
( ) SUSPENDING: Provide an adequate explanation for suspending the concentration on plain sheets and attach.
( ) DROPPING: Provide an adequate explanation for dropping the concentration on plain sheets and attach.

CONCENTRATION

PRESENT                        PROPOSED

<table>
<thead>
<tr>
<th>Total semester hours in current concentration:</th>
<th>18</th>
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<td>HIST 1001 or 1005 and HIST 1003 or 1007; HIST 2055; HIST 2057; EDCI 3001; HIST 3001; EDCI 3136; HIST 3002; EDCI 4003; HIST 4403; EDCI 4004; EDCI 4005; HIST 4404</td>
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</tr>
<tr>
<td>Fifteen additional hours in History courses above 3000</td>
<td></td>
</tr>
<tr>
<td>Twelve hours of area requirements in one of the following: Economics, Geography, Political Science</td>
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<tr>
<td>Nine hours of area requirements in one of the following: Economics, Geography, Political Science</td>
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<table>
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<th>Total semester hours in proposed concentration:</th>
<th>178</th>
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<tbody>
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<td>HIST 1001 or 1005 and HIST 1003 or 1007; HIST 2055; HIST 2057; EDCI 3001; HIST 3001; EDCI 3136; HIST 3002; EDCI 4003; HIST 4403; EDCI 4004; EDCI 4005; HIST 4404</td>
<td></td>
</tr>
<tr>
<td>Fifteen additional hours in History courses above 3000</td>
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</tr>
<tr>
<td>Nine hours of area requirements in one of the following: Economics, Geography, Political Science</td>
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<tr>
<td>Three in the area from Economics 2000, 2010, or 2030; 1001, 1003, 2050, or 2051; Political Science 2051, 2051, or 2057</td>
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</tbody>
</table>

APPROVALS:

Department Faculty Approval Date: 10/8/2013
Department Chair's Signature: 10/13/2013
Chair, FS C & C Committee

College Faculty Approval Date: 10/11/13
College Dean's Signature: 10/13/13
Academic Affairs Approval

(Please print name.)
Details Regarding the Differences in Coursework for the History major (HIST) and the History concentration in Secondary Education (HISTSE)

*Taken from the 2013-14 LSU General Catalog*

From the recommended path verbiage:

Students majoring in history must complete 33 semester hours, including **HIST 1001 or HIST 1005, HIST 1003 or HIST 1007, HIST 2055, HIST 2057**, and at least 15 semester hours in history courses 3000 or above. No more than 12 of the 15 may be taken in anyone of the following general subject areas: U.S. History, European History, and non-Western Developing Nations History (Latin America, East Asia, South Asia, Africa, and the Middle East). The remaining six hours of history courses must be taken at the 2000 level or above.

**There are 78 hours total for HISTSE, but that does include some coursework that is the same for the HIST major.**

- The 1000/2000 level sequences as noted above are the same for HIST and HISTSE, totaling **12 hours**.
- 9 hours of 3000/4000 level HIST coursework and 6 hours of 2000 level or higher HIST coursework are the same between HIST and HISTSE, totaling an additional **15 hours** of common coursework.
- Of the remaining **6 hours** of required HIST 3000/4000 level coursework required for both HIST and HISTSE, 6 of these hours specifically in HISTSE are from the HIST/EDCI paired course offerings (specifically, HIST 3001, HIST 3002, and HIST 4403 - each for one hour; and HIST 4404 for 3 hours).
- Of the **45 hours** remaining that make up HISTSE, the following concentration courses are different from what is required for HIST:
  - EDCI 2001 - 3 hours
  - EDCI 3001 - 3 hours
  - EDCI 3136 - 3 hours
  - EDCI 4003 - 3 hours
  - EDCI 4004 - 3 hours
  - EDCI 4005 - 9 hours
  - Area requirements I: complete 12 hours in one of the following: 1) **ECON 2000, ECON 2010, ECON 2035**, and **ECON 4400 or ECON 4720**; or 2) three hours from **GEOG 1001, GEOG 1003, ANTH 1003**; three hours **GEOG 2050, GEOG 2051**; three hours from **GEOG 4031, GEOG 4052, ANTH 4023, ANTH 4053**; three hours from **GEOG 4073, GEOG 4077**; or 3) **POlI 2051, POLI 2056**; and six hours from other POLI courses, one of which must be at the 3000-level or above.
  - Area requirements II: Complete nine hours in one of the fields not chosen for Area Requirements I: 1) **ECON 2000, ECON 2010, ECON 2035**; or 2) three hours
from GEOG 1001, GEOG 1003, ANTH 1003; three hours from GEOG 2050, GEOG 2051; three hours from GEOG 4031, GEOG 4052, ANTH 4023, ANTH 4053; or 3) POLI 2051, POLI 2056, and three hours of POLI courses at 3000-level or above.
Explanation for changes in the Secondary Education Concentration in History

The latest accreditation review of the secondary education concentration in History by the National Council for the Accreditation of Teacher Education (NCATE) suggested that the two areas of study other than History were insufficient to prepare students for teaching social studies in secondary schools. These students are often called upon to teach economics, geography, and civics, and they can graduate from our program without having had courses in one of these three fields. The proposed change is to rectify that situation. Students who choose as their nine-hour areas political science and geography will now have to take a three-hour course in introductory economics; those who choose economics and political science an introductory course in geography, and those who choose economics and geography an introductory course in political science. Broadening the offerings will better prepare our students for teaching various social studies classes and for taking the Praxis II exam, the passing of which is required for certification.
Secondary Education - History (Present)

CRITICAL REQUIREMENTS
SEMESTER 1: "C" or better in ENGL 1001 ; 2.5 Cumulative and LSD GPA.
SEMESTER 2: HIST 1001 IHIST 1005 or HIST 1003 IHIST 1007; 2.5 Cumulative and LSD GPA.
SEMESTER 3: HIST 1001 IHIST 1005 or HIST 1003 IHIST 1007; First Course in Foreign Language Sequence; Admission to the College; 2.5 Cumulative and LSD GPA.
SEMESTER 4: HIST 2055 IHIST 2057 ; Second Course in Foreign Language Sequence; 2.5 Cumulative and LSD GPA.
SEMESTER 5: HIST 2055 IHIST 2057; ENGL 2000; 2.5 Cumulative and LSD GPA.

Semester 1

CRITICAL: "C" or better in ENGL 1001 ; 2.5 Cumulative and LSD GPA.

ENGL 1001 English Composition (3)
HIST 1001 Western Civilization to 1500 (3) or
HIST 1005 World History to 1500 (3) or
HIST 1003 Western Civilization Since 1500 (3) or
HIST 1007 World History Since 1500 (3)

First Course in Foreign Language Sequence (4)
General Education course - Analytical Reasoning (from mathematics) (3)
General Education course - Natural Sciences

Total Semester Hours: 16

Semester 2

CRITICAL: HIST 1001 IHIST 1005 or HIST 1003 IHIST 1007 ; 2.5 Cumulative and LSD GPA.

HIST 1001 Western Civilization to 1500 (3) or
HIST 1005 World History to 1500 (3) or
HIST 1003 Western Civilization Since 1500 (3) or
HIST 1007 World History Since 1500 (3)

Second Course in Foreign Language Sequence (4)
General Education course - Arts (3)
General Education course - Natural Sciences

Total Semester Hours: 13
Semester 3

CRITICAL: HIST 1001 IIHST 1005 or HIST 1003 IHIST 1007 ; First Course in Foreign Language Sequence; Admission to the College; 2.5 Cumulative and LSU GPA.

HIST 2055 The United States to 1865 (3) or
HIST 2057 The United States from 1865 to the Present (3)

Third Course in Foreign Language Sequence (4-3)
General Education course - Analytical Reasoning (3)
General Education course - Natural Sciences
Area Requirement (3)
Total Semester Hours: 16-15

Semester 4

CRITICAL: HIST 2055 IHIST 2057 ; Second Course in Foreign Language Sequence; 2.5 Cumulative and LSU GPA.

HIST 2055 The United States to 1865 (3) or
HIST 2057 The United States from 1865 to the Present (3)

ENGL 2000 English Composition (3)
EDCI 2001 Education, Schooling and Society (3)
Fourth Course in Foreign Language Sequence (4-3)
Area Requirement (3)
Total Semester Hours: 16-15

Semester 5

CRITICAL: HIST 2055 IHIST 2057 ; ENGL 2000 ; 2.5 Cumulative and LSU GPA.

EDCI 3001 Student Development and Diversity (3)
HIST 3001 History and the Social Sciences I (1)
Approved History Electives (6)
Area Requirements (6)
Total Semester Hours: 16

Semester 6

EDCI 3136 Reading in the Content Areas (3)
HIST 3002 History and the Social Sciences II (1)
Approved History Electives (6)
Area Requirements (6)
Total Semester Hours: 16
Semester 7

EDCI 4003 Curriculum and Pedagogy in Secondary Disciplines (3)
HIST 4403 History and the Social Sciences III (1)
Approved History Elective (3)
Area Requirement
Approved Electives (2-4)
Total Semester Hours: 12-14

Semester 8

EDCI 4004 Critical Issues in Secondary School Content Area Teaching (3)
EDCI 4005 Student Teaching in Grades 6-12 Humanities (9)
HIST 4404 Seminar in History and the Social Sciences (3)
Total Semester Hours: 15

120 Total Sem. Drs.

1. If two course sequence is taken in the physical sciences, the additional three hour course must be taken from the life sciences, and vice versa.

2. Area requirements I: complete 12 hours in one of the following: 1) ECON 2000, ECON 2010, and ECON 4400 or ECON 4720; or 2) three hours from GEOG 1001, GEOG 1003, ANTH 1003; three hours GEOG 2050, GEOG 2051; three hours from GEOG 4031, GEOG 4052, ANTH 4023, ANTH 4053; three hours from GEOG 4073, GEOG 4077; or 3) POLI 2051, POLI 2056; and six hours from other POLI courses, one of which must be at the 3000-level or above.

3. Area requirements II: Complete nine hours in one of the fields not chosen for Area Requirements I: 1) ECON 2000, ECON 2010, ECON 2035; or 2) three hours from GEOG 1001, GEOG 1003, ANTH 1003; three hours from GEOG 2050, GEOG 2051; three hours from GEOG 4031, GEOG 4052, ANTH 4023, ANTH 4053; or 3) POLI 2051, POLI 2056, and three hours of POLI courses at 3000-level or above.
Secondary Education - History (PROPOSED)

CRITICAL REQUIREMENTS

SEMESTER 1: “C” or better in ENGL 1001; 2.5 Cumulative and LSD GPA.
SEMESTER 2: mST 1001/HIST 1005 or mST 1003/HIST 1007; 2.5 Cumulative and LSD GPA.
SEMESTER 3: HIST 1001/HIST 1005 or HIST 1003/HIST 1007; First Course in Foreign Language Sequence; Admission to the College; 2.5 Cumulative and LSD GPA.
SEMESTER 4: HIST 2055/HIST 2057; Second Course in Foreign Language Sequence; 2.5 Cumulative and LSU GPA.
SEMESTER 5: HIST 2055/HIST 2057; ENOL 2000; 2.5 Cumulative and LSD OPA.

- CRITICAL: "C" or better in ENGL 1001; 2.5 Cumulative and LSU GPA.
- ENGL 1001 English Composition (3)
- HIST 1001 Western Civilization to 1500 (3) or
- HIST 1005 World History to 1500 (3) or
- HIST 1003 Western Civilization Since 1500 (3) or
- HIST 1007 World History Since 1500 (3)
- First Course in Foreign Language Sequence (4)
- General Education course - Analytical (from mathematics) (3)
- General Education course - Natural Sciences (3)

Total Semester Hours: 16

Semester 2

- CRITICAL: mST 1001/HIST 1005 or HIST 1003/HIST 1007; 2.5 Cumulative and LSD GPA.
- HIST 1001 Western Civilization to 1500 (3) or
- mST 1005 World History to 1500 (3) or
- HIST 1003 Western Civilization Since 1500 (3) or
- HIST 1007 World History Since 1500 (3)
• Second Course in Foreign Language Sequence (4)
• General Education course - Arts (3)
• General Education course - Natural Sciences (3)

Total Semester Hours: 13

Semester 3

• CRITICAL: HIST 1001 HIST 1005 or HIST 1003 HIST 1007; First Course in Foreign Language Sequence; Admission to the College; 2.5 Cumulative and LSU GPA.
  • HIST 2055 The United States to 1865 (3) or
  • HIST 2057 The United States from 1865 to the Present (3)
  • Third Course in Foreign Language Sequence (4-3)
  • General Education course - Analytical (3)
  • General Education course - Natural Sciences (3)
  • Area Requirement (3)

Total Semester Hours: 16-18

Semester 4

• CRITICAL: HIST 2055 HIST 2057; Second Course in Foreign Language Sequence; 2.5 Cumulative and LSU GPA.
  • HIST 2055 The United States to 1865 (3) or
  • HIST 2057 The United States from 1865 to the Present (3)
  • ENGL 2000 English Composition (3)
  • EDCI 2001 Education, Schooling and Society (3)
  • Fourth Course in Foreign Sequence (4-3)
  • Area Requirement (3)

Total Semester Hours: 16-18
• CRITICAL: HIST 2055/HIST 2057; ENOL 2000; 2.5 Cumulative and LSU GPA.
• EDCI3001 Student Development and Diversity (3)
• mST 3001 History and the Social Sciences I (1)
• Approved History Electives (6)
• Area Requirements (6)

Total Semester Hours: 16

Semester 6

• EDCI 3136 Reading in the Content Areas (3)
• HIST 3002 History and the Social Sciences II (1)
• Approved History Electives (6)
• Area Requirement (6)

Total Semester Hours: 16

Semester 7

• EDCI 4003 Curriculum and Pedagogy in Secondary Disciplines (3)
• mST 4403 History and the Social Sciences III (1)
• Approved History Elective (3)
• Area Requirement (3)
• Approved Electives (2-4)

Total Semester Hours: 12-14

Semester 8

• EDCI4004 Critical Issues in Secondary School Content Area Teaching (3)
• EDCI 4005 Student Teaching in Grades 6-12 Humanities (9)
1. If two course sequence is taken in the physical sciences, the additional three hour course must be taken from the life sciences, and vice versa.

2. Area requirements I: complete nine hours in one of the following: 1) ECON 2000, ECON 2010, and ECON 2035, or three hours from GEOG 1001, GEOG 1003, ANTH 1003; three hours from GEOG 2050, GEOG 2051; three hours from GEOG 4031, GEOG 4052, ANTH 4023, ANTH 4053, GEOG 4073, GEOG 4077; or 3) POLI 2051, POLI 2056; and three hours from a POLI course at 3000-level or above.

3. Area requirements II: Complete nine hours in one of the fields not chosen for Area Requirements I: 1) ECON 2000, ECON 2010, and ECON 2035; or 2) three hours from GEOG 1001, GEOG 1003, ANTH 1003; three hours from GEOG 2050, GEOG 2051; three hours from GEOG 4031, GEOG 4052, ANTH 4023, ANTH 4053, GEOG 4073, GEOG 4077; or 3) POLI 2051, POLI 2056, and three hours from a POLI course at the 3000-level or above.

4. Area requirements III: Complete 3 hours in the field not chosen for Area Requirements I and II: (1) ECON 2000, 2010, or 2030; or (2) GEOG 1001, 1003, 2050, or 2051; or (3) POLI 2051, 2056, or 2057.
**REQUEST FOR ADDITION OF NEW COURSE**

**Department:** Construction Management  
**College:** Engineering  
**Date:** 4/16/13

**PROPOSED COURSE**  
**Short Title:** Construction Surveying  
**Rubric & No.:** CM 2105  
**Title:** Construction Surveying

**COURSE CREDIT**  
**Graduate Credit:** YES X NO

- **Semester Hours of Credit:** 3  
- **Lecture Hrs.:** 2  
- **Lab/Sem/Rec Hrs.:** 1  
If course may be repeated for credit (Le. special topics), course may be taken for a max. of  
credit hours.

**Credit will not be given for this course and:**

- **(Indicate rubrics and course numbers)**

**GRADING**  
**Final Exam:** X YES NO  
**Grading System:** x Letter Grade Pass/Fail

- **(Attach justification if the proposed course will not hold a final exam during examination week.)**

**COURSE TYPE**  
**(Indicate hours in the appropriate course type)**

- **Maximum enrollment per section:** 99  
**use integer, e.g. 25 not 20-30**

**CATALOG TEXT**  
Concise catalog statement exactly as you wish it to appear in the LSU General Catalog

2105 Construction Surveying (3) **Preq:** MATH 1550 and EM 1011; 2 hrs. lecture; 2 hrs. lab.  
Principles of construction surveying, fundamental measuring procedures, error analysis, leveling, traverse measurements,  
horizontal curves, vertical curves and earthwork calculations.

**BUDGET IMPACT**  
If this course is approved, will additional staff be needed? _ YES X NO

- **Will additional space, equipment, special library materials or other major expense be involved? _ YES X NO**

- **(If answer to either question above is 'yes,' attach explanation.)**

**ATTACHMENTS**  
**ATTACH THE FOLLOWING TO YOUR PROPOSAL.**

**JUSTIFICATION:** Justification must explain why this course is needed and how it fits into the curricula. Will the course duplicate other  
courses? Yes, but replaces the course. See justification.

**SYLLABUS:** Including 14 week outline of the subject matter; titles of text, lab manual, and/or required readings; grading scale and criteria  
(For 4000-level, specify graduate student grading criteria if requirements differ for graduate and undergraduate students).

**APPROVALS**  
**Department Faculty Approval**  
**College Faculty Approval**  
**Chair, FS C&C Committee**

- **Graduate Dean's Signature (for 4000 level and above)**  
- **College Contact:**

- **College Contact E-mail:**
CM 2105 - CONSTRUCTION SURVEYING

TERM: Fall/Spring
CLASS TIME & LOCATION: TBD
FACULTY: Faculty Name
Office Location, Email, Office Phone
OFFICE HOURS: Faculty Office Hours
WEBSITE: Moodle or similar

CATALOG COURSE DESCRIPTION: Construction Surveying & Layout Prereq: CM 1011& Math 1550, 2hrs. lecture, 2 hrs. lab. Principles of construction surveying, fundamental measuring procedures, error analysis, leveling, traverse measurements, horizontal curves, vertical curves, and earthwork calculations.

COURSE OBJECTIVES & OUTCOMES:
The course is intended to provide:
1. Create a Plan of Site-Work Development which incorporates ethical and responsible construction surveying "Decision Making" within the workflow of a typical job from initial setup to final layout.
2. Understand the fundamental concepts of Construction Surveying, angle, distance and elevation through the analysis of current surveying applications and equipment.
3. Understand the fundamental concepts of Construction Surveying, angle, distance and elevation through the analysis of current surveying applications and equipment.

GRADE POLICY:
- Field Book: 20% GRADE: A ≥ 90
- Exam 1: 20% SCALE: B 80 - 89.9999
- Exam 2: 20% C 70 - 79.9999
- Final Exam: 20% D 60 - 69.9999
- Class Assignments: 10% F ≤ 59.9999
- Control Report: 10%
COURSE 

MATERIALS Required Text

• "Construction Surveying and Layout" Third Edition by Wesley G. Crawford

AND 

RESOURCES Required Lab Notebook

• Lab Field Book Elan E64 8x4 W (or equivalent)

Reference Material

• "Before Building: Site Planning in the Digital Age" by R. Gene Brooks & David W. Lestage

Exams (60%)

Two exams (20% each) will be given during the class period indicated on the schedule. The final exam (20%) will be given at the time designated by the University and will be comprehensive. You will need to provide a small scantron (4.25x11) and a number 2 pencil to take each of these exams.

Field Book (20%)

The field book will be a comprehensive log book for the 10 lab exercises. This book will be maintained in a manner as outlined in the course text book. Notes will be recorded in a typical construction survey format. Field books will be evaluated on completeness of each lab based on detail and format.

Class Assignments (00%)

This course will utilize lab time to analyze the data derived in lab exercises. Lab data will be utilized for both in class and out of class analysis. Field book completion (ex. Lab Drawings) will require work external to class time.

Lab Exam (00%)

The lab exam will be a comprehensive assessment of field methods and data utilization.

Out of Class Expectation

It is expected that the students have read the chapters prior to class for the background necessary to properly learn the content and apply the concepts addressed. As a general policy, for each hour you are in class, you (the student) should plan to spend at least two hours on preparing for the next class and completing homework and laboratory assignments.

Department Policies:

1. Students are expected to attend all classes. If absence is necessary, Instructor is to be notified before the fact, if possible. Absences will only be excused when meeting the requirements of University Policy Statement 22.

2. In-class participation and questions are encouraged. They may positively influence grading decisions in borderline cases. "Credit for lab attendance requires a physical presence"

3. Academic dishonesty will be dealt with according to university regulations and policy. It is each student's responsibility to understand these regulations.

4. No food or drinks are allowed in CM classrooms. Any materials brought into the classroom by a student must be removed by that student - this includes newspapers and any other materials. It is everyone's responsibility to keep our classrooms clean.

5. Turn cell phones off, or place on the silent mode.
6. "Campus-based and/or web-based library usage is required."

Course Policies:

1. Cell phones, pagers, personal computers and any other miscellaneous electronic devices not being used for class should be turned off during class.
2. Calculators used for exams should be simple with trigonometric functions. Cell phones and other PDA style computers will not be permitted for exams.

Classroom Civility

Students are expected to assist in maintaining a classroom environment that is conducive to learning. To create an environment in which learning is the primary objective, students are asked to refrain from disruptive behaviors, including the use of cell phones or beepers (please turn them off or on silent before class begins or let me know at the beginning of class if you may have an emergency), excessive tardiness, leaving early, reading newspapers during class (or working Sudoku or crossword puzzles), sleeping, prolonged visiting with other students and making inappropriate or offensive remarks. This is not a comprehensive list - please treat the instructor and other class members with respect.

Office of Disability Services

If you have a disability that may have some impact on your work in this class and for which you may require accommodations, please see a staff member in the Office of Disability Services (112 Johnston Hall) so that such accommodations can be considered. Students that receive accommodation letters, please meet with me to discuss the provisions of those accommodations as soon as possible.

Class Contacts:

Members of your class are valuable resources for notes, assignments, announcements, etc. that are needed in the case that you are absent from class. Record the names, phone numbers and email addresses of 2-3 students that are to assist you if you are absent.

<table>
<thead>
<tr>
<th>Student Contact</th>
<th>Phone Number</th>
<th>E-Mail Address</th>
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CM 2105 Course Outline
2. Calculators used for exams should be simple with trigonometric functions. Cell phones and other PDA style computers will not be permitted for exams.

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**CM 2105 Course Outline**

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<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>TOPIC</th>
<th>ASSIGNMENTS</th>
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<tbody>
<tr>
<td>1</td>
<td></td>
<td><strong>Introduction to Construction Surveying</strong> (Chapter 22)</td>
<td><strong>Field Book</strong></td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Site Planning &amp; Dimensional Control (Chapters 1 &amp; 20)</td>
<td><strong>L1 “Location of Primary &amp; Points” Determination of 3D Position using “OPUS”</strong></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Communication (Chapter 2)</td>
<td><strong>L2 “Direction and Distance” Locate Primary &amp; Secondary Points</strong></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Fieldwork Practices (Chapter 3)</td>
<td><strong>PE1 “Introduction Optical Plummert Tribrach”</strong></td>
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<tr>
<td>3</td>
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<td>Fieldwork Practices (Chapter 3)</td>
<td><strong>PE2 “Introduction to a Digital Transit”</strong></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td>Distance Measurement “Chaining” (Chapter 4)</td>
<td><strong>L3 “Chaining a Distance” all lines</strong></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Angle Measurement (Chapter 5)</td>
<td><strong>L4 “Closing the Horizon”</strong></td>
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<tr>
<td>WEEK</td>
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<td>TOPIC</td>
<td>ASSIGNMENTS</td>
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<td>Introduction to Construction Surveying (Chapter 22)</td>
<td>Field Book Layout</td>
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<td>I</td>
<td>Site Planning &amp; Dimensional Control (Chapters 1 &amp; 20)</td>
<td>L1 &quot;Location of Primary &amp; Points&quot; Determination of DD position using &quot;OPUS&quot;</td>
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<td>PE2 &quot;Introduction to a Digital Transit&quot;</td>
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<td></td>
<td>Distance Measurement (Chapter 4)</td>
<td>L3 &quot;Chaining a Distance&quot; all lines</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Angle Measurement (Chapter 5)</td>
<td>L4 &quot;Closing the Horizon&quot;</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>Field Book Work</td>
<td>Enter Field Notes L 1-4</td>
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<tr>
<td>5</td>
<td></td>
<td>Elevation Measurement (Chapter 7)</td>
<td>In Class I</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>Elevation Measurement (Chapter 7)</td>
<td>PE 2 &quot;Introduction to an Automatic Level&quot;</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Exam 1</td>
<td>Include all topics since class I</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>Total Station (Chapter 6)</td>
<td>L5 Level Elevations: Level</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Lasers &amp; Quantities (Chapter 8 &amp; pl, Chapter 18)</td>
<td>L6 &quot;Laser Level Elevations&quot;</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>Total Station &quot;Trig Leveling&quot;</td>
<td>L7 &quot;Total Station&quot; 4 points Angle/Distance/Elevation</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>GPS (Chapter 9)</td>
<td>OI &quot;RTS Elevations&quot; D2 &quot;RTK GPS Elevations&quot;</td>
</tr>
<tr>
<td>8</td>
<td></td>
<td>Basic Construction Survey Applications &quot;Levelling&quot;</td>
<td>PE4 &quot;Introduction to a Total Station&quot;</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>&quot;BIM&quot; Scanner Demonstration by Jonathan Coco</td>
<td>D3 &quot;Laser Scanner&quot;</td>
</tr>
<tr>
<td>9</td>
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<td>Calibration &amp; Math Essentials (Chapters 10 &amp; 12) Field Information Usages (Chapter 11)</td>
<td>PE5 Principal Lines/ Geometric Relationships</td>
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<tr>
<td>10</td>
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<td>Exam 2</td>
<td>Include all topics since exam 1</td>
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<td>Lab Practical 1</td>
<td>L8 &quot;Level Calibration Check&quot; (Lab Practical 1)</td>
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<td>11</td>
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<td>Office Applications &amp; S/W Demo</td>
<td>Software Demonstration</td>
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<tr>
<td>11</td>
<td></td>
<td>Chain Corrections (Chapter 13) Control Report / Field Book Discussion</td>
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<tr>
<td>12</td>
<td></td>
<td>Elevation Application Discussion</td>
<td>In Class 2 &quot;Info Comparison gathered &quot;4&quot; Elevation Labs</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>Traverse Computations (Chapter 14) Jobsite Control</td>
<td>In Class 3 &quot; Traverse Handout&quot;</td>
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<tr>
<td>13</td>
<td></td>
<td>Traverse Lab</td>
<td>L9 &quot;Field Traverse&quot; Total Station</td>
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<tr>
<td>13</td>
<td></td>
<td>Coordinate Geometry (Chapter 15)</td>
<td>Lab Exam (Final)</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>Lab Practical 2 Control Report / Field Book Discussion</td>
<td>L10 &quot;Radial Stakeout&quot; Lab Practical 2 (Group Calculations)</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>Horizontal Curves, Vertical Curves &amp; Layout Techniques (Parts of Chapters 16, 17, &amp; 19)</td>
<td>Field Books &amp; Control Report &quot;Collected&quot;</td>
</tr>
</tbody>
</table>
Justification eM 2105

The Department of Construction Management (CM) is requesting a course number change. CM 2105 directly replaces CM 3100 with no content changes; however, plans are to drop this course from the curriculum in March of 2014 as per our Transition Plan. Making it a 2000 level course will facilitate course and program articulation with Baton Rouge Community College as well as the new CM curriculum plan.
### Request for Changing an Existing Course

#### Department: Nuclear Science

**Course Rubric and #:** NS 4411

**College:** Science

**Date:** 9/23/13

### Present Course Description

<table>
<thead>
<tr>
<th>Title</th>
<th>Fundamentals of Nuclear Radiation Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>3.0</td>
</tr>
</tbody>
</table>

If combination course type, # hrs. of lecture: lab/sem __ / rec: __

Repeat Credit Max (if repeatable) ______

Graduate Credit? Yes: ___ No: ___

Credit will not be given for this course and: __

Contact Hours Per Week: (Indicate hours in appropriate course type.)

<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>SEM</th>
<th>REC</th>
<th>RESI</th>
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<th>PRACT</th>
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<td>3.0</td>
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</table>

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade: X Pass/Fail

**Course Description:**

Include course number, title, etc., exactly as it appears in the General Catalog.

4411 Fundamentals of Nuclear Radiation Science (3)  
Prereq.: MATH 2065 or 2090; PHYS 2102. Concepts of atomic and nuclear structure, transmutations and decay. Interactions of charged particles, neutral particles and photons with matter; radiation attenuation and energy deposition. Introduction to nuclear fission and fusion; application to nuclear power. Biological effects of radiation.

### Proposed Course Description

<table>
<thead>
<tr>
<th>Title</th>
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If combination course type, # hrs. of lecture: lab/sem __ / rec: __

Repeat Credit Max (if repeatable) ______

Graduate Credit? Yes: ___ No: ___

Credit will not be given for this course and: __

Contact Hours Per Week: (Indicate hours in appropriate course type.)

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<tr>
<th>LEC</th>
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Grading System: Letter Grade: X Pass/Fail

**Course Description:**

Include course number, title, etc., exactly as it will appear in the General Catalog.

4411 Fundamentals of Nuclear Radiation Science (3)  
Prereq.: MATH 2065 or 2090; PHYS 2102. Concepts of atomic and nuclear structure, transmutations and decay. Interactions of charged particles, neutral particles and photons with matter; radiation attenuation and energy deposition. Introduction to nuclear fission and fusion; application to nuclear power. Biological effects of radiation.

### JUSTIFICATION/EXPLANATION

Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

### APPROVALS:

**Department Chair’s Signature:**  
(Date)

**College Faculty Approval Date:** 8/27/13

**College Dean’s Signature:**  
(Date)

**Chair, FS C & C Committee:**  
(Date)

**Academic Affairs Approval:**  
(Date)

**College Contact E-mail:** Stephanie@phys.lsu.edu
Justification for NS 4411

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

   Minor in Nuclear Science

This course is a prerequisite for

   None

This course is a corequisite for

   None

Prerequisites for this course

   MATH 2065 or MATH 2090

   and

   one of the following three choices

   PHYS 120?

   both PHYS 2112 and PHYS 2113

Corequisite for this course

   None
Request for **CHANGING** an Existing Course

**Department:** Physics & Astronomy  
**Course Rubric and #:** MEDP 4351  
**College:** Science  
**Date:** 9/23/13

**Present Course Description**

**Title:** Radiation Detection and Instrumentation

**Semester Hours of Credit:** 2

If combination course type, # hrs. of credit for lecture: 2  
lab/sem: 0  
/rec:

Repeat Credit Max (if repeatable): X

Graduate Credit? Yes:  
No:

Credit will not be given for this course and:

Contact Hours Per Week: (Indicate hours in appropriate course type.)

LEC: 2  
LAB:  
SEM:  
REC:  
RESI:  
CLINI:  
PRAC:  
NO PRACT:  

Total Weekly Contact Hours: 2

Grading System: Letter Grade X Pass/Fail

**Course Description:**

Include course number, title, etc. exactly as it appears in the General Catalog

4351 Radiation Detection and Instrumentation (2) Prereq.: PHYS 3098 or equivalent.  
Introduction to the physics of detection, instrumentation and data analysis used to measure ionizing radiation (gamma rays, x-rays, neutrons and charged particles) using scintillation crystal, solid state, film and gas detectors. Provides understanding of underlying principles of detection systems used in radiation therapy, radiological imaging and health physics.

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected? Yes ( )  
No ( )  
N/A (X)

Is this course included in any curricula, concentrations, or minors? Yes (X)  
No ( )  
If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes (X)  
No ( )  
If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes ( )  
No (X)

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

Department Faculty Approval Date: 8/27/13  
Department Chair’s Signature:  
(Date)

College Faculty Approval Date: 10/3/13  
College Dean’s Signature:

(Date)

College Contact: Kim Kubick  
(Please print name.)

College Contact E-mail: kkubicke@isu.edu  
Academic Affairs Approval:

(Date)
JUSTIFICATION/EXPLANATION

1. **Justification:** This proposal drops a prerequisite requirement for MEDP 4351. MEDP 4351 is not dependent on MEDP 4331, so the requisite of credit or registration in MEDP 4331 is not necessary. This change of prerequisites was intended to be done in 2011 but inadvertently lost amongst multiple changes, at the time that alterations were made to the companion lab course MEDP 4352 and the undergraduate concentration in Medical Physics. Failure to remove MEDP 4331 as a prerequisite created a "hidden" requirement for students in the undergraduate concentration. Dropping the MEDP 4331 prerequisite removes this inconsistency.

2. **Change in Course Description:** The requisite of credit or registration in MEDP 4331 is removed.

3. **Co-requisites:** This course is a co-requisite of MEDP 4352 Radiation Detection Laboratory.

4. **Required Curricula:**

   **M.S. in MEDICAL PHYSICS AND HEALTH PHYSICS**
   This course is part of the curriculum for the Master of Science in Medical Physics and Health Physics, which was accredited by the Commission on Accreditation of Medical Physics Education Programs, Inc. (CAMPEP) in December 2006. The current curriculum is:
   MEDP 4111, 4331, 4351, 4352, 7111, 7121, 7210, 7260, 7270, 7280, 7331, 7530, 7537, 7995, 8000.

   **B.S. in PHYSICS, MEDICAL PHYSICS CONCENTRATION**
   This course is part of the curriculum for the Medical Physics Concentration in the BS in Physics. The required courses in the concentration
   CHEM 1201, 1202, 1212, 2060*; BIOL 2160; MEDP 2051, 4351, 4352; NS 4411; PHYS 4123, 4141. *CHEM 2261 may be substituted for CHEM 2060.

   This course is available as an elective for students in the **MINOR in NUCLEAR SCIENCE**. The Minor curriculum is:
   At least 20-22 credit hours in nuclear science, medical physics and health physics, and physics courses. Required courses are PHYS 1201, 1202, 1208, 1209 (or 2101, 2102, 2108, 2109), plus 12 additional credit hours which must be taken from the following: MEDP 2051, 4331, 4351, 4352; NS 4352, 4411, 4570; and PHYS 2203, 2207, 3098, 4271.
Request for CHANGING an Existing Course

Department: Physics & Astronomy
Course Rubric and #: NS 4570
College: Science
Date: 9/23/13

Present Course Description
Title: Nuclear Facility Safety

Semester Hours of Credit: 3.0
If combination course type, # hrs. of credit for:
lab/sem: 
/rec: 
Repeat Credit Max (if repeatable): 
Graduate Credit?: Yes: X No: 
Credit will not be given for this course and: 
Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC: 3.0 LAB: SEM: REC: RES: INO: CLINI: PRAC: 
Total Weekly Contact Hours: 3.0
Grading System: Letter Grade: X Pass/Fail
Course Description: Include course number, title, etc., exactly as it will appear in the General Catalog.
4570 Nuclear Facility Safety (3) Prereq.: PHYS 2102 or equivalent. Safety analysis of facilities that utilize radiation sources including hospitals and industrial sites; accident sequences; dispersal of radionuclides; estimation of dose and dose commitments; and engineered safeguards.

Proposed Course Description
Title: Nuclear Facility Safety

Semester Hours of Credit: 3.0
If combination course type, # hrs. of credit for:
lab/sem: 
/rec: 
Repeat Credit Max (if repeatable): 
Graduate Credit?: Yes: X No: 
Credit will not be given for this course and: 
Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC: 3.0 LAB: SEM: REC: RES: INO: CLINI: PRAC: 
Total Weekly Contact Hours: 3.0
Grading System: Letter Grade: X Pass/Fail
Course Description: Include course number, title, etc., exactly as it will appear in the General Catalog.
4570 Nuclear Facility Safety (3) Prereq.: PHYS 1202 or both PHYS 2112, 2113. Safety analysis of facilities that utilize radiation sources including hospitals and industrial accident sequences; dispersal of radionuclides; estimation of dose and dose commitments; and engineered safeguards.

These questions must be answered completely and accurately or proposal will be returned.
Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)
Is this course included in any curricula, concentrations, or minors? Yes (x) No ( ) If yes, please list on a separate sheet.
Is this course a prerequisite or corequisite for other courses? Yes ( ) No (x) If yes, list courses; use separate sheet.
Is this course on the General Education list? Yes ( ) No (x)

Justification/Explanation: Use separate sheet.
Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

Approvals:
Dean Faculty Approval Date: 8/27/13
College Dean's Approval Date: 10/3/13
College Dean's Signature: 
College Dean's Date: 10/29/13
Chair FSC & C Committee: 
Chair's Date: 1/18/10
Academic Affairs Approval: 
Academic Affairs Date: 

College Contact: Stephanie Jones
College Contact E-mail: Stephanie@phys.lsu.edu
Justification for NS 4570

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

  Minor in Nuclear Science

This course is a prerequisite for

  None

This course is a corequisite for

  None

Prerequisites for this course

  one of the following three choices

    PHYS 1202

    both PHYS 2112 and PHYS 2113

Corequisite for this course

  None
Request for **CHANGING** an Existing Course

**Department**  Physics & Astronomy  
**Course Rubric and #**  PHYS 6991  
**College**  Science  
**Date**  9/23/13

### Present Course Description
- Seminar in Current Developments in Physics  
**Title**  Curriculum Materials

#### Semester Hours of Credit
1.0-3.0

If combination course type, # hrs. of lecture: lab/sem credit for rec: 
Repeat Credit Max (if repeatable) 6.0

Graduate Credit? Yes:  X  No: 
Credit will not be given for this course and: 

Contact Hours Per Week: (Indicate hours in appropriate course type.)
- LEC  1-3  
- REC  
- SEM  
- RESI  
- INO  
- CLINI  
- PRACT  

Total Weekly Contact Hours:  3.0

Grading System: Letter Grade  X  Pass/Fail

Course Description:
6991 Seminar in Current Developments in Physics  
Curriculum Materials (1-3)  
Prereq.: PHYS 2002 or 2102. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 6 sem. hrs. credit.

### Proposed Course Description
- Seminar in Current Developments in Physics  
**Title**  Curriculum Materials

#### Semester Hours of Credit
1.0-3.0

If combination course type, # hrs. of lecture: lab/sem credit for rec: 
Repeat Credit Max (if repeatable) 6.0

Graduate Credit? Yes:  X  No: 
Credit will not be given for this course and: 

Contact Hours Per Week: (Indicate hours in appropriate course type.)
- LEC  1-3  
- REC  
- SEM  
- RESI  
- INO  
- CLINI  
- PRACT  

Total Weekly Contact Hours:  3.0

Grading System: Letter Grade  X  Pass/Fail

Course Description:
Include course number, title, etc., exactly as it will appear in the General Catalog.
6991 Seminar in Current Developments in Physics  
Curriculum Materials (1-3)  
Prereq.: PHYS 2002. or both PHYS 2112, 2113. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 6 sem. hrs. credit.

### Justification/Explanation

**These Questions Must be Answered Completely and Accurately or Proposal Will be Returned.**

Has this change been discussed with and approved by all departments/colleges affected? Yes ( )  No ( )  N/A  (x)
Is this course included in any curricula, concentrations, or minors? Yes ( )  No (x)
If so, please list on a separate sheet.
Is this course a prerequisite or corequisite for this change? Yes ( )  No (x)
If yes, list courses; use separate sheet.
Is this course on the General Education list? Yes ( )  No (x)

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**Approvals:**

**Department Faculty Approval**  
Date  8/27/13  
**College Faculty Approval Date**  10/3/13  
**College Dean’s Approval**  10/18/13

**Chair, FSC & C Committee**  10/24/13

**Academic Affairs Approval**  11/18/13

(Please print name.)
Justification for PHYS 6991

The change is include references to the new PHYS 2110, 2112, 2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

   Master of Natural Science

This course is a prerequisite for

   None

This course is a corequisite for

   None

Prerequisites for this course

   one of the following three choices

       PHYS 2002

       both PHYS 2112 and PHYS 2113

Corequisite for this course

   None
Request for **CHANGING** an Existing Course

**Department**  
Physics & Astronomy  
Course Rubric and #  
PHYS 6198  
**College**  
Science  
**Date**  
9/23/13

**Present Course Description**

**Title**  
Laboratory Methods for Teachers

**Semester Hours of Credit**  
3.0

| If combination course type, # hrs. of | credit for | lecture: |
| Repeat Credit Max (if repeatable) | 9.0 |

Graduate Credit?  
Yes: X  
No: ___ ___ ___

Credit will not be given for this course and:  
___

**Contact Hours Per Week:** (Indicate hours in appropriate course type.)

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<tr>
<th>LEC</th>
<th>LAB</th>
<th>SEM</th>
<th>REC</th>
<th>RESI</th>
<th>INO</th>
<th>CLIN</th>
<th>PRACT</th>
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<tr>
<td>1.0</td>
<td>6.0</td>
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</table>

**Total Weekly Contact Hours:**  
7.0

**Grading System:**  
Letter Grade _X_  
Pass/Fail

**Course Description:**

Include course number, title, etc. exactly as it will appear in the General Catalog.

6198 Laboratory Methods for Teachers (3) Spring only  
Prereq.: PHYS 2002 or 2102. 1 hr. lecture; 6 hrs. lab. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 9 hrs. of credit. Analysis of laboratory experiments in current high school physics curricula; selected experiments in modern physics.

**Proposed Course Description**

**Title**  
Laboratory Methods for Teachers

**Semester Hours of Credit**  
3.0

| If combination course type, # hrs. of | credit for | lecture: |
| Repeat Credit Max (if repeatable) | 9.0 |

Graduate Credit?  
Yes: X  
No: ___ ___ ___

Credit will not be given for this course and:  
___

**Contact Hours Per Week:** (Indicate hours in appropriate course type.)

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<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>SEM</th>
<th>REC</th>
<th>RESI</th>
<th>INO</th>
<th>CLIN</th>
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</thead>
<tbody>
<tr>
<td>1.0</td>
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</table>

**Total Weekly Contact Hours:**  
7.0

**Grading System:**  
Letter Grade _X_  
Pass/Fail

**Course Description:**

Include course number, title, etc. exactly as it will appear in the General Catalog.

6198 Laboratory Methods for Teachers (3) Spring only  
Prereq.: PHYS 2002 or both PHYS 2112, 2113. 1 hr. lecture; 6 hrs. lab. For high school and junior college teachers; part of the MNS degree program. May be taken for a max. of 9 hrs. of credit. Analysis of laboratory experiments in current high school physics curricula; selected experiments in modern physics.

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected?  
Yes ( )  
No ( )  
N/A (x)

Is this course included in any curricula, concentrations, or minors?  
Yes (x)  
No ( )

If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses?  
Yes ( )  
No (x )

If yes, list courses; use separate sheet.

Is this course on the General Education list?  
Yes ( )  
No (x )

**JUSTIFICATION/EXPLANATION:**  
Use separate sheet.

Note: **IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.**

**APPROVALS:**

Department Chair’s Signature  
9/23/13

Graduate Dean’s Signature  
(Date)

College Contact:  
Stephanie Jones  
Stephanie@phys.lsu.edu

College Faculty Approval Date  
8/27/13

College Faculty Approval Date  
10/3/13

College Dean’s Signature  
10/18/13

Chair, FS C & C Committee  
10/29/13

Academic Affairs Approval  
9/18/13
Justification for PHYS 6198

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101,2102 course sequence.

This course is a required course in the following majors and curricula

   Master of Natural Science

This course is a prerequisite for

   None

This course is a corequisite for

   None

Prerequisites for this course

   one of the following three choices
      
      PHYS 2002
      
      both PHYS 2112 and PHYS 2113

Corequisite for this course

   None
Request for **CHANGING** an Existing Course

<table>
<thead>
<tr>
<th>Present Course Description</th>
<th>Proposed Course Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title</strong></td>
<td>Classical Physics for Teachers</td>
</tr>
<tr>
<td><strong>Short Title</strong></td>
<td>Classical Phys. Teach</td>
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<tr>
<td><strong>Semester Hours of Credit</strong></td>
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<td><strong>Graduate Credit?</strong></td>
<td>Yes: X</td>
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<tr>
<td><strong>Credit</strong></td>
<td>Yes: X</td>
</tr>
<tr>
<td><strong>Contact Hours Per Week:</strong></td>
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<td><strong>Grading System:</strong></td>
<td>Letter Grade X</td>
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</table>

**Course Description:**

Include course number, title, etc., exactly as it appears in the General Catalog.

Present Course Description:

Classical Physics for Teachers (3) Su only-V
Prereq.: PHYS 2002 or 2012. For high school and junior college teachers; part of the MNS degree program. Application of conservation principles to development of classical physics.

Proposed Course Description:

Classical Physics for Teachers (3)
Prereq.: PHYS 2002 or both PHYS 2112,2113. For high school and junior college teachers; part of the degree program. Application of conservation principles to development of classical physics.

**JUSTIFICATION/EXPLANATION:**

Use separate sheet.

**Note:** IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

**Department Chair’s Signature:**

9/23/13

**Graduate Dean’s Signature:**

10/3/13

**College Dean’s Signature:**

10/29/13

**College Contact:**

Stephanie Jones

**College Contact E-mail:**

Stephanie@phys.lsu.edu

**Academic Affairs Approval:**

10/18/13
Justification for PHYS 6121

The change is include references to the new PHYS 2110, 2112, 2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

Master of Natural Science

This course is a prerequisite for

None

This course is a corequisite for

None

Prerequisites for this course

one of the following three choices

PHYS 2002

both PHYS 2112 and PHYS 2113

Corequisite for this course

None
# Request for CHANGING an Existing Course

## Present Course Description

**Title**: Mathematical Physics for Teachers  
**Semester Hours of Credit**: 3.0  
**Graduate Credit?**: Yes: X  
**Contact Hours Per Week**: 3.0  
**Grading System**: Letter Grade X  
**Course Description**: Mathematical Physics for Teachers (3)  
**Prereq.**: PHYS 2002 or 2102. Not for degree credit for physics majors. Mathematical structure of physics.

## Proposed Course Description

**Title**: Mathematical Physics for Teachers  
**Semester Hours of Credit**: 3.0  
**Graduate Credit?**: Yes: X  
**Contact Hours Per Week**: 3.0  
**Grading System**: Letter Grade X  
**Course Description**: Mathematical Physics for Teachers (3)  
**Prereq.**: PHYS 2002 or both PHYS 2112, 2113. Not for degree credit for physics majors. Mathematical structure of physics.

---

### JUSTIFICATION/EXPLANATION

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)  
Is this course included in any curricula, concentrations, or minors? Yes ( ) No (x)  
Is this course a prerequisite or corequisite for other courses? Yes ( ) No (x)  
Is this course on the General Education list? Yes ( ) No (x)  

### Approval

- **Department Faculty Approval Date**: 8/27/13  
- **College Faculty Approval Date**: 10/3/13  
- **Chair, FS C & C Committee Approval Date**: 10/8/13  
- **Academic Affairs Approval Date**: 10/29/13

---

**College Contact**: Stephanie Jones  
**College Contact E-mail**: Stephanie@phys.lsu.edu
Justification for PHYS 6111

The change is to include references to the new PHYS 2110, 2112, 2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula
   None

This course is a prerequisite for
   None

This course is a corequisite for
   None

Prerequisites for this course
   one of the following choices
      PHYS 2002
      both PHYS 2112 and PHYS 2113

Corequisite for this course
   None
### Request for CHANGING an Existing Course

**Department:** Physics & Astronomy  
**Course Rubric and #:** PHYS 3098  
**College:** Science  
**Date:** 9/23/13

#### Present Course Description

**Title:** Instrumentation Electronics for Scientists  
**Semester Hours of Credit:** 3.0  

If combination course type, # hrs. of credit for lecture: 2.0  
lab/sem: 1.0  
credit for rec:  

Repeat Credit Max (if repeatable)  
Graduate Credit? Yes: No:  
Credit will not be given for this course and:  
Contact Hours Per Week:  
LEC: 2.0  
LAB: 3.0  
SEM:  
REC:  
RESI:  
INO:  
CLINI:  
PRAC T:  
Total Weekly Contact Hours:  
Grading System: Letter Grade ___ Pass/Fail

**Course Description:**
Include course number, title, etc., exactly as it appears in the General Catalog.

**3098 Instrumentation Electronics for Scientists (3):**  
Prereq.: PHYS 1202 or 2102; PHYS 2207; CSC 1253 or equivalent. For physics majors only. 2 hrs. lecture; 3 hrs. lab. Basic electronic technology and circuits used in scientific instrumentation; circuit analysis, discrete components, operational amplifiers, digital electronics and microcontrollers.

#### Proposed Course Description

**Title:** Instrumentation Electronics for Scientists  
**Semester Hours of Credit:** 3.0  

If combination course type, # hrs. of credit for lecture: 2.0  
lab/sem: 1.0  
credit for rec:  

Repeat Credit Max (if repeatable)  
Graduate Credit? Yes: No:  
Credit will not be given for this course and:  
Contact Hours Per Week:  
LEC: 2.0  
LAB: 3.0  
SEM:  
REC:  
RESI:  
INO:  
CLINI:  
PRAC T:  
Total Weekly Contact Hours:  
Grading System: Letter Grade ___ Pass/Fail

**Course Description:**
Include course number, title, etc., exactly as it will appear in the General Catalog.

**3098 Instrumentation Electronics for Scientist (3):**  
Prereq.: PHYS 1202 or both PHYS 2112, 2113; PHYS 2207; CSC 1253 or equivalent. For physics majors only. 2 hrs. lecture; 3 hrs. lab. Basic electronic technology and circuits used in scientific instrumentation; circuit analysis, discrete components, operational amplifiers, digital electronics and microcontrollers.

### JUSTIFICATION/EXPLANATION

Use separate sheet.

**Note:** IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

### APPOVALS

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>8/27/13</th>
</tr>
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<tbody>
<tr>
<td>College Faculty Approval Date</td>
<td>10/3/13</td>
</tr>
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</table>

**Department Chair's Signature:**  
(Date)  

**College Faculty Approval Date:** 10/3/13  
**College Dean's Signature:**  
(Date)

**Chair, FS C & C Committee:**  
(Date)

**Academic Affairs Approval:**  
(Date)

**College Contact:** Stephanie Jones  
(Please print name.)  
**College Contact E-mail:** Stephanie@phys.lsu.edu
Justification for PHYS 3098

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

- BS Physics, all concentrations
- Physics minor

This course is a prerequisite for

- None

This course is a corequisite for

- None

Prerequisites for this course

- CSC 1253 or equivalent

and

- PHYS 2207

and one of the following choices

- PHYS 1202

  both PHYS 2112 and PHYS 2113

Corequisite for this course

- None
## Request for CHANGING an Existing Course

### Department and College
- **Department:** Physics
- **College:** Science

### Present Course Description
- **Title:** Computational Science I
- **Course Rubric and #:** PHYS 2411
- **Semester Hours of Credit:** 3.0

<table>
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<tr>
<th>Combination Course Type</th>
<th># Hrs. of Lecture</th>
<th># Hrs. of Lab/Sem Credit</th>
<th>Repeat Credit Max (if repeatable)</th>
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</table>

- Graduate Credit? Yes: No: \(\times\)

### Proposed Course Description
- **Title:** Computational Science I
- **Course Rubric and #:** PHYS 2411
- **Semester Hours of Credit:** 3.0

<table>
<thead>
<tr>
<th>Combination Course Type</th>
<th># Hrs. of Lecture</th>
<th># Hrs. of Lab/Sem Credit</th>
<th>Repeat Credit Max (if repeatable)</th>
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</tbody>
</table>

- Graduate Credit? Yes: No: \(\times\)

### Course Description:
- **2411 Computational Science I (3) Prereq.: CSC 1253 or equivalent and one of the following three choices: PHYS 2221 or PHYS 1202 (or 2102) and MATH 2057; or CHEM 4581 and credit or registration in MATH 2065 (or 2090). 2 hrs. lecture; 2 hrs. lab. Introduction to symbolic manipulation and numerical techniques used to analyze or simulate a broad range of physical systems.**

### Grading System:
- **Letter Grade:** Pass/Fail

### Contact Hours Per Week:
- **LEC 2.0**: **LAB 2.0**: **SEM**: **REC**: **RESI**: **INO**: **CLIN**: **PRAC**: Total Weekly Contact Hours: 4.0

### JUSTIFICATION/EXPLANATION:
These questions must be answered completely and accurately or proposal will be returned.

- Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A ( )
- Is this course included in any curricula, concentrations, or minors? Yes (x) No ( ) If yes, please list on a separate sheet.
- Is this course a prerequisite or corequisite for other courses? Yes (x) No ( ) If yes, list courses; use separate sheet.
- Is this course on the General Education list? Yes ( ) No (x)

### Note:
If course is or will be cross-listed, separate forms must be submitted by each department.

### APPROVALS:
- **Department Chair's Signature:** \(\times\)
- **College Contact:** Stephanie Jones
- **College Contact E-mail:** Stephanie@phys.lsu.edu
- **College Faculty Approval Date:** 10/3/13
- **College Dean's Signature:** 10/29/13
- **Academic Affairs Approval:** 11/18/13

---

**FOR ADMINISTRATIVE USE ONLY**

- **Effective:**
- **Rev. 3/2012**
Justification for PHYS 2411

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101,2102 course sequence.

This course is a required course in the following majors and curricula

- BS Physics, all concentrations
- Physics minor

This course is a prerequisite for

- None

This course is a corequisite for

- None

Prerequisites for this course

- CSC 1253 or equivalent

  and one of the following three choices

  choice 1: PHYS 2221
  choice 2: MATH 2057 and one of the following
    2a) PHYS 1202
    PHYS 2112 and PHYS 2113
  choice 3: CHEM 4581 and credit or registration in either MATH 2065 or 2090

Corequisite for this course

- None
## Request for Changing an Existing Course

### Present Course Description

**Title:** Introduction to Mechanics  
**Semester Hours of Credit:** 3.0  
**Contact Hours Per Week:** 3.0  
**Grading System:** Letter Grade _X_ Pass/Fail  
**Course Description:**  
Include course number, title, etc., exactly as it will appear in the General Catalog  
2221 Introduction to Mechanics (3) Prereq.: PHYS 1202 or 2102 and MATH 2057. Basic concepts of mechanics with emphasis on corresponding mathematical techniques.

### Proposed Course Description

**Title:** Introduction to Mechanics  
**Semester Hours of Credit:** 3.0  
**Contact Hours Per Week:** 3.0  
**Grading System:** Letter Grade _X_ Pass/Fail  
**Course Description:**  
Include course number, title, etc., exactly as it will appear in the General Catalog  
2221 Introduction to Mechanics (3) Prereq.: PHYS 1202 or both PHYS 2112 and 2113; MATH 2057. Basic concepts of mechanics with emphasis on corresponding mathematical techniques.

### Approval Information

**Department Faculty Approval Date:** 8/27/13  
**College Faculty Approval Date:** 10/3/13  
**College Dean’s Approval Date:** 10/29/13  
**Academic Affairs Approval Date:** 11/18/13
Justification for PHYS 2221

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101,2102 course sequence.

This course is a required course in the following majors and curricula

- BS Physics, all concentrations
- Physics minor

This course is a prerequisite for

- Unchanged from prior catalog

This course is a corequisite for

- None

Prerequisites for this course

- PHYS 1202 or
  - both PHYS 2112 and PHYS 2113
  - and
  - MATH 2057

Corequisite for this course

- None
Request for CHANGING an Existing Course

Department: Physics & Astronomy  
Course Rubric and #: PHYS 2102  
College: Science  
Date: 9/28/13

Present Course Description
Title: General Physics for Technical Students

Semester Hours of Credit 3.0

If combination course type, # hrs. of credit for lecture:  
lab/sem  
/rec:  
Repeat Credit Max (if repeatable)  
Graduate Credit?  
Yes:  
No:  
Credit will not be given for this course and: PHYS 1202, 2002

Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC 3.0  
LAB  
SEM  
REC  
RESI  
INO  
CLINI  
PRACT

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade _x_ Pass/Fail

Course Description:  
Include course number, title, etc., exactly as it appears in the Catalogue
2102 General Physics for Technical Students (3)  
Prereq.: PHYS 2101 and MATH 1552. Credit will not be given for both this course and PHYS 1202, 2002. Electricity, magnetism, physical optics, and topics from modern physics.

Proposed Course Description
Title: General Physics for Technical Students

Semester Hours of Credit 3.0

If combination course type, # hrs. of credit for lecture:  
lab/sem  
/rec:  
Repeat Credit Max (if repeatable)  
Graduate Credit?  
Yes:  
No:  
Credit will not be given for this course and: PHYS 1202, 2002 or 2113

Contact Hours Per Week: (Indicate hours in appropriate course type.)
LEC 3.0  
LAB  
SEM  
REC  
RESI  
INO  
CLINI  
PRACT

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade _x_ Pass/Fail

Course Description:  
Include course number, title, etc., exactly as it will appear in the General Catalogue
General Physics for Technical Students (3)  
Prereq.: PHYS 2101 and MATH 1552. Credit will not be given for both this course and PHYS 1202, 2002 or 2113. Electricity, magnetism, physical optics, and topics from modern physics.

THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.

Has this change been discussed with and approved by all departments/colleges affected? Yes (_x_) No ( ) N/A ( )

Is this course included in any curricula, concentrations, or minors? Yes (_x_) No ( ) If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes (_x_) No ( ) If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes (_x_) No ( )

JUSTIFICATION/EXPLANATION: Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

APPROVALS:
Department Faculty Approval Date: 8/27/13  
Department Chair's Signature:  
(Date)  
Graduate Dean's Signature:  
(Date)  
College Contact: Stephanie Jones  
(Please print name.)  
College Contact E-mail: Stephanie@phys.lsu.edu

College Faculty Approval Date: 10/3/13  
College Dean's Signature:  
(Date)  
Chair, FS C & C Committee:  
(Date)  
Academic Affairs Approval:  
(Date)
Justification for PHYS 2102

The change is include references to the new PHYS 2110, 2112, 2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

The material in 2113 is covered in 2102.

This course is a required course in the following majors and curricula

- Biological Engineering, B.S.B.E.
- Chemical Engineering, B.S.Ch.E.
- Chemistry, B.S.
- Civil Engineering, B.S.C.E.
- Computer Engineering, B.S.E.E.
- Electrical Engineering, B.S.E.E.
- Environmental Engineering, B.S.Ev.E.
- Geology, B.S.Geol., all concentrations
- Industrial Engineering, B.S.I.E.
- Nuclear Science Minor
- Petroleum Engineering, B.S.P.E.
- Physics Minor
- Physics, B.S.

This course is a prerequisite for

- ASTR4221, MEDP4331, NS4411, NS4570, PHYS2203, PHYS2221, PHYS2411, PHYS3098, PHYS 6111, PHYS 6121, PHYS 6198, PHYS 6991, BE 2350, CHEM 3491, EE 2120, EE 2130, IE 3302, ME 2723, ME 2733, ME 4953, PETE 2032, PETE 3036

This course is a corequisite for

- PHYS 2109

Prerequisites for this course

- PHYS 2101

Corequisite for this course

- Credit or Registration in MATH 1552 or 1553
Request for CHANGING an EXisting Course

Department: Physics & Astronomy
Course: PHYS 2101

Present Course Description:
Title: General Physics for Technical Students

Semester Hours of Credit: 3.0

Contact Hours Per Week:
LEC 3.0 | LAB | SEM | REC | RESI | INO | PRAC | CLIN

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade X Pass/Fail

Proposed Course Description:
Title: General Physics for Technical Students

Semester Hours of Credit: 3.0

Contact Hours Per Week:
LEC 3.0 | LAB | SEM | REC | RESI | INO | PRAC | CLIN

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade X Pass/Fail

Course Description:
Include course number, title, etc., exactly as it appears in the General Catalog

2101 General Physics for Technical Students (3)
Prerequisite: credit or registration in MATH 1552 or MATH 1553
Credit will not be given for both this course and PHYS 1201, 2001 or 2110, 2112.
Mechanics, wave motion, thermodynamics, and kinetic theory.

THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED:
Has this change been discussed with and approved by all departments/colleges affected? Yes (x) No () N/A ( )
Is this course included in any curricula, concentrations, or minors? Yes (x) No () If yes, please list on a separate sheet.
Is this course a prerequisite or corequisite for other courses? Yes (x) No () If yes, list courses; use separate sheet.
Is this course on the General Education list? Yes (x) No ()

JUSTIFICATION/EXPLANATION: Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

APPROVALS:
Department Faculty Approval Date 8/27/13 23/13
Department Chair’s Signature

College Faculty Approval Date 10/3/13
College Dean’s Signature

Graduate Dean’s Signature (Date)

College Contact: Stephanie Jones (Please print name.)
College Contact E-mail: Stephanie@phys.lsu.edu

Academic Affairs Approval (Date)
Justification for PHYS 2101

The change is include references to the new PHYS 2110,2112,2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

The material in 2110 and 2112 is covered in 2101.

As part of that change, PHYS 1100 is no longer offered and so it is removed as a prerequisite. Since the physics placement test was used to determine if a student should take 1100, it is no longer offered and so the reference to it is also removed.

This course is a required course in the following majors and curricula

Biological Engineering, B.S.B.E.
Chemical Engineering, B.S.Ch.E.
Chemistry, B.S.
Civil Engineering, B.S.C.E.
Computer Engineering, B.S.E.E.
Electrical Engineering, B.S.E.E.
Environmental Engineering, B.S.Ev.E.
Geology, B.S.Geol., all concentrations
Industrial Engineering, B.S.I.E.
Nuclear Science Minor
Petroleum Engineering, B.S.P.E.
Physics Minor
Physics, B.S.
Coil. Engr. - Technical Sales Minor
Textiles, Apparel & Merchandising, B.S., Textile Science Concentration

This course is a prerequisite for

PHYS 2102, GEO 4068, ME 2212, ME 2334, PETE 2031

This course is a corequisite for

PHYS 2108

Prerequisites for this course

PHYS 1100, MATH 1550 or 1551

Corequisite for this course

None
Request for **CHANGING** an Existing Course

**Present Course Description**

**Title**: Introductory Physics Laboratory

**Course Rubric and #**: PHYS 2108

**College**: Science

**Date**: 9/2/13

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<tr>
<td>Graduate Credit?</td>
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<tr>
<td>Credit will not be given for this course and:</td>
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**Contact Hours Per Week:** (Indicate hours in appropriate course type.)

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</thead>
<tbody>
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<td></td>
<td>3.0</td>
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</table>

**Total Weekly Contact Hours:** 3.0

**Grading System:** Letter Grade **X** Pass/Fail

**Course Description:**

Include course number, title, etc., exactly as it will appear in the General Catalog.

2108 Introductory Physics Laboratory (1) **Prereq.: credit or registration in PHYS 2001 or 2101. 3 hrs. lab. Credit will not be given for both this course and PHYS 1208. Laboratory to accompany PHYS 2001 or 2101.**

**Proposed Course Description**

**Title**: Introductory Physics Laboratory

**Short L, AB, WRK, TECHN, PHYS**

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<td>Graduate Credit?</td>
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<tr>
<td>Credit will not be given for this course and:</td>
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**Contact Hours Per Week:** (Indicate hours in appropriate course type.)

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<td>3.0</td>
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</table>

**Total Weekly Contact Hours:** 3.0

**Grading System:** Letter Grade **X** Pass/Fail

**Course Description:**

Include course number, title, etc., exactly as it will appear in the General Catalog.

2108 Introductory Physics Laboratory (1) **Prereq.: credit or registration in PHYS 2001 or 2110. 3 hrs. lab. Credit will not be given for both this course and PHYS 1208. Laboratory to accompany PHYS 2001 or 2110.**

---

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected? **Yes (x) No () N/A ()**

Is this course included in any curricula, concentrations, or minors? **Yes (x) No () If yes, please list on a separate sheet.**

Is this course a prerequisite or corequisite for other courses? **Yes (x) No () If yes, list courses; use separate sheet.**

Is this course on the General Education list? **Yes () No (x)**

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

**Note:** IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

**Department Faculty Approval Date**: 8/27/13

**Department Chair's Signature**: [Signature] (Date)

**Graduate Dean's Signature**: [Signature] (Date)

**College Contact**: Stephanie Jones

**College Contact E-mail**: Stephanie@phys.lsu.edu

**College Faculty Approval Date**: 10/3/13

**College Dean's Signature**: [Signature] (Date)

**Chair, FS C & C Committee**: [Signature] (Date)

**Academic Affairs Approval**: [Signature] (Date)
Justification for PHYS 2108

The change is to include references to the new PHYS 2110, 2112, 2113 sequence, which will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula:

- Biochemistry, B.S.
- Biological Sciences, B.S.
- Chemistry, B.S.
- Coastal Environmental Science, B.S. CES.
- Computer Engineering, B.S.E.E.
- Electrical Engineering, B.S.E.E.
- Geology, B.S. Geo!, all concentrations
- Industrial Engineering, B.S.I.E.
- Kinesiology, B.S. Human Movement concentration
- Mechanical Engineering, B.S.M.E.
- Microbiology, B.S.
- Nuclear Science Minor
- Nutrition & Food Sciences, B.S. Food Science with Premed concentration
- Nutrition & Food Sciences, B.S. Nutritional Sciences/Premedical concentration
- Physics Minor
- Physics, B.S.

This course is a prerequisite for:

- PHYS 2109, ME 3133

This course is a corequisite for:

- None

Prerequisites for this course:

- None

Corequisite for this course:

- PHYS 2001 or PHYS 2110
# Request for CHANGING an Existing Course

**Department:** History  
**Course Rubric and #:** HIST 4055  
**College:** H&SS  
**Date:** 10107/2013

### Present Course Description

**Title:** Civil War  
**Semester Hours of Credit:** 3  

- **If combination course type, # hrs. of credit for:**  
  - lecture:  
  - lab/sem:  
  - rec:  

- **Repeat Credit Max (if repeatable):**  
- **Graduate Credit?**   
  - Yes:  
  - No:  

- **Credit will not be given for this course and:**  
- **Contact Hours Per Week:** (Indicate hours in appropriate course type.)  
  - LEC:  
  - LAB:  
  - SEM:  
  - REC:  
  - RES:  
  - INO:  
  - CLINI:  
  - PRACT:  

- **Total Weekly Contact Hours:** ___  
- **Grading System:** Letter Grade __x__ Pass/Fail  
- **Course Description:** Include course number, title, etc. exactly as it appears in the General Catalog.  
  - 4055 Civil War (3) Also offered as MILS 4055. Secession; social and economic conditions, principal military campaigns.

### Proposed Course Description

**Title:** Civil War  
**Short Title:** CIVIL WAR  
**Semester Hours of Credit:** 3  

- **If combination course type, # hrs. of credit for:**  
  - lecture:  
  - lab/sem:  
  - rec:  

- **Repeat Credit Max (if repeatable):**  
- **Graduate Credit?**   
  - Yes:  
  - No:  

- **Credit will not be given for this course and:**  
- **Contact Hours Per Week:** (Indicate hours in appropriate course type.)  
  - LEC:  
  - LAB:  
  - SEM:  
  - REC:  
  - RES:  
  - INO:  
  - CLINI:  
  - PRACT:  

- **Total Weekly Contact Hours:** ___  
- **Grading System:** Letter Grade __x__ Pass/Fail  
- **Course Description:** Include course number, title, etc. exactly as it appears in the General Catalog.  
  - 4055 Civil War (3) Also offered as MILS 4055. Secession; social and economic conditions, principal military campaigns.

### JUSTIFICATION/EXPLANATION

These questions must be answered completely and accurately or proposal will be returned:  
- Has this change been discussed with and approved by all departments/colleges affected? Yes (x) No ( ) N/A ( )  
- Is this course included in any curricula, concentrations, or minors? Yes (x) No ( ) If yes, please list on a separate sheet.  
- Is this course a prerequisite or corequisite for other courses? Yes ( ) No (x) If yes, list courses; use separate sheet.  
- Is this course on the General Education list? Yes ( ) No (x)  

Note: If course is or will be cross-listed, separate forms must be submitted by each department.

## APPROVALS:

**Department Faculty Approval Date:** 22 April 2013  
**Department Chair’s Signature:**  
**Department Chair’s (Date):** 10/8/2013  
**Graduate Dean’s Signature:**  
**Graduate Dean’s (Date):**  

**College Faculty Approval Date:** 10/16/13  
**College Dean’s Signature:**  
**College Dean’s (Date):** 10/16/13  
**Chair, FS C & C Committee:**  
**Chair, FS C & C Committee (Date):** 10/29/13

**Academic Affairs Approval:**  
**Academic Affairs Approval (Date):** 5/8/1813
Military Science Instructors do not meet SACs requirements to teach this course.
Dr. Stater,

Our next housekeeping task is to delete the cross listing of HIST 4055, Civil War and HIST 4130, World War II.

I have attached a form C for your review and submission.

The military science department will also submit a form C per the instructions.

The catalogue currently reads:

HIST 4055 Civil War (3)  Also offered as MILS 4055
HIST 4130 World War II (3)  Also offered as MILS 4130

Respectfully,

Reginald Brown
Louisiana State University Military Science Department (ROTC), Contract Instructor, COMTek
106 Military Science Building, Baton Rouge, LA 70803
(225) 578-3568 or 2371 Work; (225) 578-3560 Fax; rbrow86@lsu.edu

From: Victor L Stater
sent: Thursday, April 18, 2013 12:14 PM
To: Reginald Brown
Subject: RE: MIL SCI Minor in Professional Leadership change - Form F & Justification

The Department of History has no objection to the proposed changes.

Victor Stater
Professor and Chair

From: Reginald Brown
sent: Thursday, April 18, 2013 11:33 AM
To: Victor L Stater; Renee Edwards
Subject: FW: MIL SCI Minor in Professional Leadership change - Form F & Justification

Dr. Stater and Edwards,

Please see below.

Dr. Stater, this is in line with a conversation you and LTC Burns had months ago. The change clearly aligns the curriculum content with guidance provided by the Army Training and Doctrine Headquarters.

Dr. Edwards, this may be new to you but the Army Training and Doctrine Headquarters removed the communication requirement a few years ago and included more intensive communication instruction in our regular Military Science curriculum.
# Request for CHANGING an Existing Course

**Department**: History  
**Course Number**: HIST 4130  
**Date**: 10107/2013  
**College**: H&SS

## Present Course Description

<table>
<thead>
<tr>
<th>Title</th>
<th>World War II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>3</td>
</tr>
</tbody>
</table>

If combination course type, # hrs. of credit for lecture: lab/sem /rec: ____  
Repeat Credit Max (if repeatable)____

Graduate Credit? Yes: X, No: ___

Credit will not be given for this course and: ___

Contact Hours Per Week: (Indicate hours in appropriate course type.)

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<tr>
<th>LEC</th>
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<th>SEM</th>
<th>REC</th>
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<tbody>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Weekly Contact Hours: ___3___

Grading System: Letter Grade X Pass/Fail

Course Description:  
Include course number etc. exactly as it appears in the General Catalog.

4130 World War II (3) Also offered as MILS 4130. Global crisis of the 1930s; Axis and Allied strategies; major military campaigns; great power diplomacy; life on the homefronts; the Holocaust; espionage and resistance; the experience of combat; social, political and scientific consequences.

## Proposed Course Description

<table>
<thead>
<tr>
<th>Title</th>
<th>World War II</th>
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<tbody>
<tr>
<td>Semester Hours of Credit</td>
<td>3</td>
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</table>

If combination course type, # hrs. of credit for lecture: lab/sem /rec: ____  
Repeat Credit Max (if repeatable)____

Graduate Credit? Yes: X, No: ___

Credit will not be given for this course and: ___

Contact Hours Per Week: (Indicate hours in appropriate course type.)

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<tr>
<th>LEC</th>
<th>LAB</th>
<th>SEM</th>
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</table>

Total Weekly Contact Hours: ___3___

Grading System: Letter Grade X Pass/Fail

Course Description:  
Include course number etc. exactly as it will appear in the General Catalog.

4130 World War II (3) Also offered as MILS 4130. Global crisis of the 1930s; Axis and Allied strategies; major military campaigns; great power diplomacy; life on the homefronts; the Holocaust; espionage and resistance; the experience of combat; social, political and scientific consequences.

---

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED**

Has this change been discussed with and approved by all departments/colleges affected? Yes (x) No ( ) NIA ( )

Is this course included in any curricula, concentrations, or minors? Yes (x) No ( ) If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes ( ) No (x ) If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes ( ) No (x )

JUSTIFICATION/EXPLANATION: Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

Department Faculty Approval Date 22 April 2013  
Department Chair’s Signature  
College Dean’s Signature  
College Contact: _____________________________________ (Please print name.)  
College Contact E-mail: _____________________________________  

College Faculty Approval Date 10/16/13  
College Dean’s Signature  
Chair, FS C & C Committee  
Academic Affairs Approval  
(Date)  
(Date)  
(Date)  
(Date)  

(Date)  
(Date)  
(Date)  
(Date)  
(Date)  
(Date)  
(Date)
Military Science Instructors do not meet SACs requirements to teach this course.
Dr. Stater,

Our next housekeeping task is to delete the cross listing of HIST 4055, Civil War and HIST 4130, World War II. I have attached a form C for your review and submission. The military science department will also submit a form C per the instructions.

The catalogue currently reads:

HIST 4055 Civil War (3)  Also offered as MILS 4055
HIST 4130 World War II (3)  Also offered as MILS 4130

Respectfully,
Reginald Brown
Louisiana State University Military Science Department (ROTC), Contract Instructor, COMTek
106 Military Science Building, Baton Rouge, LA 70803
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**Request for CHANGING an Existing Course**

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<th>Department</th>
<th>Chemistry</th>
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<th>College of Science</th>
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<tr>
<td>Course Rubric and #</td>
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<td>Date</td>
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**Present Course Description**

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| Repeat Credit Max (if repeatable) |  
|-----------------------------------|------------|

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**Proposed Course Description**

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<th>HONORS: General Chemistry I</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Semester Hours of Credit</th>
<th>3 hours</th>
</tr>
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<table>
<thead>
<tr>
<th>If combination course, # hrs. of credit for lecture:</th>
<th>lab/sem/rec:</th>
</tr>
</thead>
</table>

| Repeat Credit Max (if repeatable) |  
|-----------------------------------|------------|

<table>
<thead>
<tr>
<th>Graduate Credit?</th>
<th>Yes:</th>
</tr>
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<table>
<thead>
<tr>
<th>Credit will not be given for this course and:</th>
<th>CHEM 1201</th>
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<table>
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<th>Contact Hours Per Week: (Indicate hours in appropriate course type.)</th>
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<table>
<thead>
<tr>
<th>Grading System:</th>
<th>Letter Grade <em>X</em> Pass/Fail</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Course Description:</th>
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</table>

This is a General Education course. Prereq.: ACT mathematics score of at least 27 or eligibility for MA TH 1550. Credit will not be given for both this course and CHEM 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

These questions must be answered completely and accurately or proposal will be returned.

| Has this change been discussed with and approved by all departments/colleges affected? | Yes ( ) No ( ) NJA ( ) |
|--------------------------------------------------------------------------------------|

| Is this course included in any curricula, concentrations, or minors? | Yes (X) No ( ) |
|---------------------------------------------------------------------|

| Is this course a prerequisite or corequisite for other courses? | Yes (X) No ( ) |
|----------------------------------------------------------------|

| Is this course on the General Education list? | Yes (X) No ( ) |
|------------------------------------------------|

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

Note: If course IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

<table>
<thead>
<tr>
<th>Department Faculty Approval Date</th>
<th>10/3/13</th>
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<tr>
<th>College Faculty Approval Date</th>
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<table>
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<tr>
<th>College Dean’s Signature</th>
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<tr>
<th>Chair, FS C &amp; C Committee</th>
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<table>
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<tr>
<th>Academic Affairs Approval</th>
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</thead>
</table>
JUSTIFICATION FOR CHANGES IN CHEM 1421

No other departments or colleges require this course in the curriculum besides Chemistry Dept.

This course is only required for BS degree in CHEMISTRY:

1st semester (Freshman Year) - CHEM 1201 or 1421

CHEM 1421 is a prerequisite for the following courses:

CHEM 1002 - Chemistry of Life and the Environment
CHEM 1422 - HONORS: General Chemistry

The change in the prerequisite was needed after MATH department changed their prerequisite away from the Math ACT score (or MATH SAT or placement exam) for MATH 1550/1551 to a score in ALEKS. So we have changed the prerequisite from Math ACT score to credit in or registration in MATH 1550 or MATH 1551. This will also help the students who come to LSU with AP credit in MATH 1550/1551.

We are also slightly modifying the title by adding "I" at the end. This mirrors the corresponding name of the non-Honors version - CHEM 1201 General Chemistry I.

CURRENT:
CHEM 1421 HONORS: General Chemistry (3) This is a General Education course. Prereq.: ACT mathematics score of at least 27 or eligibility for MATH 1550. Credit will not be given for both this course and CHEM 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

PROPOSED:
CHEM 1421 HONORS: General Chemistry I (3) This is a General Education course. Prereq.: credit or registration in MATH 1550 or MATH 1551. Credit will not be given for both this course and CHEM 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.
Dear Linda,

Math approves your proposed change.

Sincerely,

Charles Delzell
Associate Chair for Instruction
Department of Mathematics
301A Lockett Hall
578-1619

---

Dr. Delzell,

The Chemistry Department is changing the prerequisites of CHEM 1421, HONORS: General Chemistry I. We are changing the prerequisites to better align with the newer MATH prerequisites. Previously, our prerequisites aligned with the MATH 1550 prerequisites. Now we will simply have the credit or registration in MATH 1550 or MATH 1551. See the current and proposed course descriptions below.

Because our new prerequisite specifically lists MATH 1550/1551, we will need the approval of the MATH department to attach to the paperwork for the various Courses & Curriculum committees. Please email me back with the approval of the MATH department.

CURRENT:
CHEM 1421 HONORS: General Chemistry (3) This is a General Education course. Prereq.: ACT mathematics score of at least 27 or eligibility for MATH 1550. Credit will not be given for both this course and CHEM 1201.
Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

PROPOSED:
CHEM 1421 HONORS: General Chemistry I (3) This is a General Education course. Prereq.: credit or registration in MATH 1550 or MATH 1551. Credit will not be given for both this course and CHEM 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

If you have any questions, please contact me, Linda A

Dr. Linda R. Allen
Director of Undergraduate Laboratories
From:     Linda
Sent:     Wednesday, September 18, 2013 2:15 PM
To:       Nancy L Clark; Michael V Blandino; Jeremy K Joiner
Cc:       Martha Cedotal (cxcedo@lsu.edu)
Subject:  FYI on Update to CHEM 1421 prerequisites

Dean Clark, Mr. Blandino and Mr. Joiner,
This email serves to give you advance notice of the upcoming changes in the CHEM 1421, HONORS: General Chemistry. The Chemistry department is submitting changes to the prerequisites of CHEM 1421 to the College of Science Courses & Curriculum committees and then on to the Faculty Senate Courses & Curriculum committee. The old prerequisites of CHEM 1421 were based on the MATH department's prerequisites for MATH 1550/1551. However, with the MATH department's change in prerequisite for MATH 1550/1551 to be based on ALEKS scores, we encountered some difficulties in registration in CHEM 1421.

Our change will parallel our CHEM 1201 prerequisite by requiring credit in or registration in MATH 1550 or MATH 1551 (and not on ACT/SAT scores). See the current and proposed course descriptions listed below. This will allow students who have AP credit in MATH 1550/1551 (or above) to register without ALEKS scores. Also students who will be conditionally registered in MATH 1550/1551 will be able to register for CHEM 1421. The only hiccup in the process, will be for students who are conditionally registered in MATH 1550/1551 but do not obtain the passing score in ALEKS for either course. These students will have the MATH 1550/1551 course purged from their schedule in mid- to late-July. At that point, they no longer meet the prerequisites for CHEM 1421. So in the pre-requisite purge that is done later (usually a couple of weeks before the Fall semester begins), students who haven't yet obtained the passing ALEKS score (and therefor unable to add MATH 1550/1551 to their schedule) will be purged from CHEM 1421.

CURRENT:
CHEM 1421 HONORS: General Chemistry (3) This is a General Education course. Prereq.: ACT mathematics score of at least 27 or eligibility for MATH 1550. Credit will not be given for both this course and CHEM 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

PROPOSED:
CHEM 1421 HONORS: General Chemistry I (3) This is a General Education course. Prereq.: credit or registration in MATH 1550 or MATH 1551. Credit will not be given for both course and CHEM 1201. Chemistry majors who qualify should take this course. For well-prepared students with a special interest in chemistry.

If you have any questions, please contact me,
Linda A

Dr. Linda R. Allen
Director of Undergraduate Laboratories
Department of Chemistry
College of Science
LSU
Lallen3@lsu.edu
(225) 518-2940 or 578-3954
Request for **CHANGING** an Existing Course

<table>
<thead>
<tr>
<th>Department</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Rubric and #</td>
<td>CHEM 3491</td>
</tr>
<tr>
<td>Date</td>
<td>3/27/2013</td>
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</table>

**Present Course Description**

<table>
<thead>
<tr>
<th>Title</th>
<th>Physical Chemistry I</th>
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</thead>
</table>

<table>
<thead>
<tr>
<th>Semester Hours of Credit</th>
<th>3 hours</th>
</tr>
</thead>
</table>

If combination course, # hrs. of credit for lecture: lab/sem/rec:

Repeat Credit Max (if repeatable): X

Credit will not be given for this course and: __

Graduate Credit? Yes: X No: __

Contact Hours Per Week: (Indicate hours in appropriate course type.)

<table>
<thead>
<tr>
<th>LEC</th>
<th>LAB</th>
<th>SEM</th>
<th>REC</th>
<th>IND</th>
<th>PRACT</th>
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<tbody>
<tr>
<td>3</td>
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<td></td>
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</tbody>
</table>

Total Weekly Contact Hours: 3

Grading System: Letter Grade _X_ Pass/Fail

Course Description:

CHEM 3491 Physical Chemistry I (3)
Prereq.: MATH 2057 or MATH 2090; PHYS 1202 or PHYS 2102; and CHEM 1202 or CHEM 1422; all three courses with a grade of "C" or better. Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.

<table>
<thead>
<tr>
<th>Proposed Course Description</th>
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<tbody>
<tr>
<td>Title</td>
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<tr>
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<table>
<thead>
<tr>
<th>Semester Hours of Credit</th>
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If combination course, # hrs. of credit for lecture: lab/sem/rec:

Repeat Credit Max (if repeatable): X

Credit will not be given for this course and: __

Graduate Credit? Yes: X No: __

Contact Hours Per Week: (Indicate hours in appropriate course type.)

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<thead>
<tr>
<th>LEC</th>
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<th>SEM</th>
<th>REC</th>
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<th>PRACT</th>
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</thead>
<tbody>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

Total Weekly Contact Hours: 3

Grading System: Letter Grade _X_ Pass/Fail

Course Description:

CHEM 3491 Physical Chemistry I (3)
Prereq.: MATH 2057 or MATH 2090; PHYS 1202 or PHYS 2113; and CHEM 1202 or CHEM 1422; all three courses with a grade of "C" or better. Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

**Department Faculty Approval Date** 3/27/2013

Department Chair's Signature ___________ (Date)

Graduate Dean's Signature ___________ (Date)

College Contact: Kim Kubicek ___________ (Please print name.)

College Contact E-mail: kkubicek@lsu.edu

**College Faculty Approval Date** 10/3/13

College Dean's Signature ___________ (Date)

Chair, FS C & C Committee ___________ (Date)

**Academic Affairs Approval** (Date)
JUSTIFICATION FOR CHANGES IN CHEM 3491

CURRICULUM: CHEM 3491 is required in the BS Chemistry Curriculum and BS Chemical Engineering
This course is required for BS degree in CHEMISTRY in the 5th semester (Junior Year)
This course is required for BS degree in CHEMICAL ENGINEERING in 5th semester (Junior Year)

PREREQUISITE: CHEM 3491 is a prerequisite listed in the following courses:
CHEM 3492 - Physical Chemistry II
CHEM 4552 - Instrumental Characterization of Organic Compounds
CHEM 4556 - Analytical Spectroscopy
CHEM 4559 - Electroanalytical Chemistry
CHEM 4581 - Introduction to Mathematical Chemistry
CHEM 7221 - Chemical Dynamics and Kinetics

CHE 4285 - Principles of High Polymers
PHYS 4125 - Thermodynamics and Statistical Mechanics

JUSTIFICATION FOR CHANGE: The change in the prerequisite was needed after Physics department changed their calculus-based physic course sequence from PHYS 1100, 2101 & 2102 to PHYS 2110, 2112, & 2113. So we have changed the prerequisite from PHYS 1202 or PHYS 2102 to PHYS 1202 or PHYS 2113.

COURSE DESCRIPTION:
CURRENT
CHEM 3491 Physical Chemistry I (3) Prereq.: MATH 2057 or MATH 2090, PHYS 1202 or PHYS 2102, and CHEM 1202 or CHEM 1422; all three courses with a grade of “C” or better. Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.

PROPOSED:
CHEM 3491 Physical Chemistry I (3) Prereq.: MATH 2057 or MATH 2090, PHYS 1202 or PHYS 2113, and CHEM 1202 or CHEM 1422; all three courses with a grade of “C” or better. Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.
Linda,

The Department of Physics and Astronomy approves the change.

Dr. Dana A. Browne
Professor and Associate Chair
Dept. of Physics and Astronomy
202 Nicholson Hall
Louisiana State University
Baton Rouge, LA 70803-4001

Office:
219B Nicholson Hall
(225) 578-6843

On 9/18/2013 10:46 AM, Linda Allen wrote:
> Dr. Dana Browne,
> The Chemistry Department is changing the prerequisites of Physical Chemistry I (CHEM 3491) to reflect the changes in PHYS courses, specifically changing PHYS 2102 to PHYS 2113. The present and proposed changes to the CHEM 3491 prerequisites are listed below.
> *Present:*
> *CHEM 3491 Physical Chemistry I (3)*
> *Prereq.: MATH 2057 or MATH 2090; PHYS 1202 or PHYS 2102; and CHEM 1202 or CHEM 1422; all three courses with a grade of "C" or better.
> /Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.
> Proposed:
> *CHEM 3491 Physical Chemistry I (3)*
> /Prereq.: MATH 2057 or MATH 2090; PHYS 1202 or PHYS 2113 and CHEM 1202 or CHEM 1422; all three courses with a grade of "C" or better.
> /Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.
> Since (HEM 3491 is listed as an alternate prerequisite in your PHYS 4125, Thermodynamics and Statistical Mechanics, this email is to...
> notify you of the change.
>
> "PHYS 4125 Thermodynamics and Statistical Mechanics (3)"
>
> /Prereq.: PHYS 2203 or CHEM 3491; PHYS 2221 or CHEM 4581; credit or
> registration in MATH 2065 or MATH 2090/. Basic physical concepts and
> methods appropriate for description of systems involving many
> particles; unified view point of thermodynamics, statistical mechanics
> and kinetic theory.
>
> Please send me back an email that you have been notified of the
> changes in CHEM 3491 as approve the changes. If you have further
> questions, please let me know.
>
> Linda
>
> Dr. Linda R. Allen
> Director of Undergraduate Laboratories
>
> Department of Chemistry
>
> College of Science
>
> LSU
>
> Lallen3@lsu.edu <mailto:Lallen3@lsu.edu>
>
> (225) 578-2940 or 578-3954
>
Linda Allen

From: Martin A Hjortso
Sent: Tuesday, September 24, 2013 3:50 PM
To: Linda Allen; M J Wornat; David M Wetzel
Cc: mewagg@me.lsu.edu
Subject: RE: Changes in CHEM 3491

Linda,

Thanks for the notification. We have discussed the changes and they do not present any problem for us,

Martin A. Hjortso
Chevron and Clarence EidtJr Professor of Chemical Engineering
Louisiana State University
Baton Rouge, LA 70803
Voice: (225) 578-3058
Fax: (225) 578-1476
e-mail: hjortso@lsu.edu

From: Unda Allen
Sent: Wednesday, September 18, 2013 11:26 AM
To: M J Wornat; Martin A Hjortso; David M Wetzel
Cc: mewagg@me.lsu.edu
Subject: Changes in CHEM 3491

Dr. Judy Wornat, Dr. Martin Hjortso, and Dr. David Wetsel,

The Chemistry Department is changing the prerequisites of Physical Chemistry I (CHEM 3491) to reflect the changes in PHYS courses, specifically changing PHYS 2102 to PHYS 2113. (The present and proposed changes to CHEM 3491 are listed below.)

Please discuss and/or forward to the appropriate persons or committee the changes in CHEM 3491 as CHEM 3491 is a required course in the BS in Chemical Engineering curriculum. Also CHEM 3491 is listed as a required course your CHE 4285, Principles of High Polymers (see below). This email notifies the Chemical Engineering Department of the change in CHEM 3491 as it affects both your BS Curriculum and the course CHE 4285. The Chemistry Department is requesting an email that you have been notified and approve of the changes,

Present:
CHEM 3491 Physical Chemistry I (3)
Prereq.: MATH 2057 or MATH 2090; PHYS1202 or PHYS 2102; and CHEM 1202 or CHEM 1422; all three courses with a grade of "C" or better. Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.

Proposed:
CHEM 3491 Physical Chemistry I (3)
Prereq.: MATH 2057 or MATH 2090; PHYS 1202 or PHYS 2113 and CHEM 1202 or CHEM 1422; all three courses with a grade of "C" or better. Principles of physical chemistry including quantum mechanics, kinetics and thermodynamics.

CHE 4285 Principles of High Polymers (3)
Prereq.: CHE 3172 and ___. Solution and solid-state properties of high polymers; microstructure of polymer chains and effect on macromolecular physical properties of the final plastics.

Again, please send me back an email that you have been notified and approve of the changes in (HEM 3491 as it relates to your curriculum and to CHE 4285. If you have further questions, please contact me.

Linda

---

pro Linda R. Allen
Director of Undergraduate Laboratories
Department of Chemistry
College of Science
LSU
Lallen3@lsu.edu
(225) 578-2940 or 578-3954
# Request for CHANGING an Existing Course

**Department:** Biological Sciences  
**Course Rubric and #:** SIO14093  
**College:** Science  
**Date:** 9/20/13

## Present Course Description

<table>
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<tr>
<th>Title</th>
<th>General Biochemistry I</th>
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<tbody>
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<td>Semester Hours of Credit</td>
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<tr>
<td>If combination course type, # hrs. of credit for lecture:</td>
<td>lab/sem/rec:</td>
</tr>
<tr>
<td>Repeat Credit Max (if repeatable)</td>
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</tr>
<tr>
<td>Graduate Credit?</td>
<td>Yes: X No:</td>
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Credit will not be given for this course and: BIOl 2083, 4087

Contact Hours Per Week: (Indicate hours in appropriate course type.)

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<th>LEC</th>
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<th>SEM</th>
<th>REC</th>
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</table>

Total Weekly Contact Hours: _3__

Grading System: letter Grade _X__ Pass/Fail

**Course Description:**

Include course number, title, etc., exactly as it appears in the General Catalog.

**BIOL 4093 General Biochemistry I (3)** [LCCN: CBIO 3403, Biochemistry I (Upper Level)] Prereq.: BIOL 2153 and CHEM 2262 or CHEM 2462. Credit will not be given for BIOL 2083, BIOL 4087, BIOL 4094. Structure and function of proteins, nucleic acids, lipids and carbohydrates; enzymology; respiration.

## Proposed Course Description

<table>
<thead>
<tr>
<th>Title</th>
<th>General Biochemistry I</th>
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<tbody>
<tr>
<td>Semester Hours of Credit</td>
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<td>If combination course type, # hrs. of credit for lecture:</td>
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Credit will not be given for this course and: BIOl 2083, 4087

Contact Hours Per Week: (Indicate hours in appropriate course type.)

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</table>

Total Weekly Contact Hours: _3__

Grading System: letter Grade _X__ Pass/Fail

**Course Description:**

Include course number, title, etc., exactly as it will appear in the General Catalog.

**BIOL 4093 General Biochemistry I (3)** [LCCN: CBIO 3403, Biochemistry I (Upper Level)] Prereq.: BIOL 2153 and CHEM 2262 or CHEM 2462. Credit will not be given for this course and BIOL 2083, or this course and BIOL 4087. Structure and function of proteins, nucleic acids, lipids and carbohydrates; enzymology; respiration.

---

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected? Yes (X) No () N/A ( )

Is this course included in any curricula, concentrations, or minors? Yes ( ) No (X)

Is this course a prerequisite or corequisite for other courses? Yes (X) No ( )

Is this course on the General Education list? Yes ( ) No (X)

If yes, please list on a separate sheet.

Justification/Explanation: Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

Appr Val: De, artment Faculty Approval Date 9/23/2013  
Department Chair's Signature 9/23/2012

Graduate Dean's Signature (Date)

College Contact: kKubicek@sy.edu

Colleage Contact E-mail: kKubicek@sy.edu

College Faculty Approval Date 10/29/13  
Chair, FS C & C Committee (Date)

Academic Affairs Approval (Date)
Original Course Description was incorrect. Credit will not be given for this course and BIOL 2083 or this course and BIOL 4087. BIOL 4093 and 4094 are a sequence and students can receive credit for both courses.

BIOL 4093 is a required course for the B.S. in Biochemistry.

BIOL 4093 is a prerequisite for BIOL 4094.
This is a letter of support for the changes in BIOI 4093. BIOI 4093 & 4094 are required for Chemistry with a concentration in Biological Chemistry and Chemistry with a concentration in Pre-Professional Chemistry.

Linda Allen

Dr. Linda R. Allen
Director of Undergraduate Laboratories
Department of Chemistry
College of Science
LSU
Lallen3@lsu.edu
(225) 578-2940 or 578-3954

Hi Linda,

Before I forget, I wanted to just send a quick reminder about the letter of support for BIOI 4093.

Thanks!

Kim Kubicek
Academic Counselor
College of Science
Louisiana State University
351 Hatcher Hall
(225) 578-4200
kkubicek@lsu.edu
Request for **CHANGING** an **E**xisting Course

Department: Physics & Astronomy

Course Rubric and #: MEDP 4331

College: Science

Date: 9/23/13

Present Course Description

Title: Radiation Protection and Exposure Evaluation

Semester Hours of Credit: 3.0

If combination course type, # hrs. of credit for lecture: lab/sem rec: __   __  __

Repeat Credit Max (if repeatable)____

Graduate Credit? Yes:  No:  

Credit will not be given for this course and: ___

Contact Hours Per Week: (Indicate hours in appropriate course type.)

LEC  _  _ LAB  SEM  REC  RESI  CLINIC  PRACT

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade  Pass/Fail

Course Description: Include course number, title, etc. exactly as it appears in the General Catalog

4331 Radiation Protection and Exposure Evaluation (3)

Prereq.: PHYS 2102 or equivalent. Control and evaluation of radiation exposure, including external and internal dosimetry, techniques of dose reduction, and consequences of radiation exposure.

Proposed Course Description

Title: Radiation Protection and Exposure Evaluation

Short Title: R A D  P R O T  &  E X P O S E  E V A

Semester Hours of Credit: 3.0

If combination course type, # hrs. of credit for lecture: lab/sem rec: __   __  __

Repeat Credit Max (if repeatable)____

Graduate Credit? Yes:  No:  

Credit will not be given for this course and: ___

Contact Hours Per Week: (Indicate hours in appropriate course type.)

LEC  _  _ LAB  SEM  REC  RESI  CLINIC  PRACT

Total Weekly Contact Hours: 3.0

Grading System: Letter Grade  Pass/Fail

Course Description: Include course number, title, etc. exactly as it will appear in the General Catalog

4331 Radiation Protection and Exposure Evaluation (3)

Prereq.: PHYS 1202 or PHYS 2112, 2113.. Control and evaluation of radiation exposure, including external and internal dosimetry, techniques of dose reduction, and consequences of radiation exposure.

**THESE QUESTIONS MUST BE ANSWERED COMPLETELY AND ACCURATELY OR PROPOSAL WILL BE RETURNED.**

Has this change been discussed with and approved by all departments/colleges affected? Yes ( ) No ( ) N/A (x)

Is this course included in any curricula, concentrations, or minors? Yes ( ) No ( ) If yes, please list on a separate sheet.

Is this course a prerequisite or corequisite for other courses? Yes ( ) No (x) If yes, list courses; use separate sheet.

Is this course on the General Education list? Yes ( ) No (x)

JUSTIFICATION/EXPLANATION: Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

APPROVALS:

Department Faculty Approval Date 8/27/13 __ __ __

Department Chair's Signature 10/16/13 (Date)

Graduate Dean's Signature 10/29/13 (Date)

College Contact: Stephanie Jones

College Contact E-mail: Stephanie@phys.lsu.edu

College Faculty Approval Date 10/13/13 __ __ __

College Dean's Signature 10/18/13 (Date)

FS C & C Committee 11/8/13 (Date)

Academic Affairs Approval (Date)

Rev. 3/2012
Justification for MEDP 4331

The change is include references to the new PHYS 2110, 2112, 2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

   Minor in Nuclear Science

This course is a prerequisite for

   None

This course is a corequisite for

   None

Prerequisites for this course

   one of the following three choices

       PHYS 1?O?

       both PHYS 2112 and PHYS 2113

Corequisite for this course

   None
Request for **CHANGING** an Existing Course

**Department:** Physics & Astronomy  
**Present Course Description**

**Title:** General Physics Laboratory  
**Course Rubric and #**: PHYS 2109  
**College:** Science  
**Date:** 9/23/13  
**Current Course Description**

**Title:** General Physics Laboratory  
**Course Rubric and #**: PHYS 2109  
**Semester Hours of Credit:** 1.0  
**Present Course Description**

**Title:** General Physics Laboratory  
**Course Rubric and #**: PHYS 2109  
**Semester Hours of Credit:** 1.0  

If combination course type, # hrs. of credit for lecture: lab/sem rec:  

Repeat Credit Max (if repeatable)  

Graduate Credit? Yes: No: x  

Credit will not be given for this course and: PHYS 1209  

Contact Hours Per Week: (Indicate hours in appropriate course type.)  

LEC 3.0  
LAB SEM REC  
RESI INO CLINI PRACT  

Total Weekly Contact Hours: 3.0  

Grading System: Letter Grade X Pass/Fail  

Course Description: Include course title, etc., exactly as it will appear in the General Catalog  

2109 General Physics Laboratory (1) Prereq.: PHYS 2108 and credit or registration in PHYS 2002 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 1209. Laboratory to accompany PHYS 2002 and 2102; electricity, magnetism, geometrical and physical optics, and other topics in modern physics.

**Proposed Course Description**

**Title:** General Physics Laboratory  
**Course Rubric and #**: PHYS 2109  
**Semester Hours of Credit:** 1.0  
**Proposed Course Description**

**Title:** General Physics Laboratory  
**Course Rubric and #**: PHYS 2109  
**Semester Hours of Credit:** 1.0  

If combination course type, # hrs. of credit for lecture: lab/sem rec:  

Repeat Credit Max (if repeatable)  

Graduate Credit? Yes: No: x  

Credit will not be given for this course and: PHYS 1209  

Contact Hours Per Week: (Indicate hours in appropriate course type.)  

LEC 3.0  
LAB SEM REC  
RESI INO CLINI PRACT  

Total Weekly Contact Hours: 3.0  

Grading System: Letter Grade X Pass/Fail  

Course Description: Include course title, etc., exactly as it will appear in the General Catalog  

2109 General Physics Laboratory (1) Prereq.: PHYS 2108 and credit or registration in PHYS 2002 or 2102. 3 hrs. lab. Credit will not be given for both this course and PHYS 1209. Laboratory to accompany PHYS 2002 and 2102; electricity, magnetism, geometrical and physical optics, and other topics in modern physics.

**JUSTIFICATION/EXPLANATION:** Use separate sheet.

Note: IF COURSE IS OR WILL BE CROSS-LISTED, SEPARATE FORMS MUST BE SUBMITTED BY EACH DEPARTMENT.

**APPROVALS:**

**Dep. Chair:**  
**Approval Date:** 8/27/13  
**Date:** 9/23/13  
**Department Chair’s Signature:**  

**Graduate Dean’s Signature:**  
**College Contact:** Stephanie Jones  
**E-mail:** Stephanie@phys.lsu.edu  

**College Faculty Approval Date:** 10/3/13  
**College Dean’s Signature:**  
**Date:** 10/18/13  
**Chair, FS C & C C:**  
**Academic Affairs Approval:**  
**Date:** 11/18/13
Justification for PHYS 2109

The change is include references to the new PHYS 2110, 2112, 2113 sequence that will be replacing the existing PHYS 2101, 2102 course sequence.

This course is a required course in the following majors and curricula

Biochemistry, B.S.
Biological Sciences, B.S.
Chemistry, B.S.
Coastal Environmental Science, B.S. CES.
Geology, B.S.Geol., all concentrations
Kinesiology, B.S. Human Movement concentration
Microbiology, B.S.
Nuclear Science Minor
Nutrition & Food Sciences, B.S. Food Science with Premed concentration
Nutrition & Food Sciences, B.S. Nutritional Sciences/Premedical concentration
Physics Minor
Physics, B.S.

This course is a prerequisite for

CHEM 4393

This course is a corequisite for

None

Prerequisites for this course

PHYS 2108 or PHYS 1208

Corequisite for this course

PHYS 2002 ( or PHYS 2113
REQUEST FOR DROPPING A COURSE

Department: BIOLOGICAL SCIENCES
College: SCIENCE

Course rubric & no.  BIOI 3001  Title: Science Teaching in Secondary School I: The learner

Semester hours of credit: 1

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:

(If additional space is needed, please attach a separate piece of paper.)

Cross-listed with PHYS 3001 and CHEM 3001

Is this course a prerequisite or corequisite for any other courses? Yes (X) No ( )

If answer to above is yes, please list courses by rubric and course number.

(If additional space is needed, please attach a separate piece of paper.)

Rubric  BIOI  Course #  3002  Rubric  Course #  
Rubric  Course #  
Rubric  Course #  

Is this course on the general education list? Yes ( ) No (X)

If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

These courses are no longer part of the Geaux Teach Science and Mathematics Curriculum. The revised curriculum did not include these courses. The last students in this curriculum have graduated and the last time this course was offered was Fall 2008.

The EDCI 3001 course was listed as a co-requisite; however this course has already been modified to delete BIOUCHEM/PHYS courses.

APPROVALS:

Department Faculty Approval Date  10/1/13

Department Chair's Signature  (Date)

Graduate Dean's Signature  (Date)

College Contact: Kim Kubicek

College Contact E-mail: kkubicek@lsu.edu

College Faculty Approval Date  10/3/13

College Dean's Signature  (Date)

Chair, FS C & C Committee  (Date)

Academic Affairs Approval  (Date)
REQUEST FOR DROPPING A COURSE

Department: BIOLOGICAL SCIENCES
College: SCIENCE

Course rubric & no.: BIOI3002
Title: Science Teaching in Secondary School II: Technology in Science Education

Semester hours of credit: 1

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:
(if additional space is needed, please attach a separate piece of paper.)

Cross-listed with CHEM 3002 and PHYS 3002

Is this course a prerequisite or corequisite for any other courses? Yes (X) No ( )
If answer to above is yes, please list courses by rubric and course number.
(if additional space is needed, please attach a separate piece of paper.)

Rubric EDCI Course # 3002 Rubric Course # Rubric Course #
Rubric ________Course # ________Rubric ________Course # ________

Is this course on the general education list? Yes ( ) No (X)
If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:
These courses are no longer part of the Geaux Teach Science and Mathematics Curriculum. The revised curriculum did not include these courses. The last students in this curriculum have graduated and the last time this course was offered was Spring 2009.

APPROVALS:

Department Faculty Approval Date 10/1/13
Department Chair’s Signature 10/1/13 (Date)

Graduate Dean’s Signature (Date)
College Contact: Kim Kubicek
College Contact E-mail: kkubicek@lsu.edu

College Faculty Approval Date 10/3/13
College Dean’s Signature (Date)
Chair, FSGEC Committee (Date)
Academic Affairs Approval (Date)
REQUEST FOR DROPPING A COURSE

Department: PHYSICS & ASTRONOMY
College: SCIENCE

Effective Date: 5/8/13

Course rubric & no.: PHYS 3001
Title: Science Teaching in Secondary School I: The Learner
Semester hours of credit: 1

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:
(If additional space is needed, please attach a separate piece of paper.)

Cross-listed with SIOL 3001 and CHEM 3001

Is this course a prerequisite or corequisite for any other courses? Yes (X) No ( )
If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric PHYS Course # 3002
Rubric ________ Course # ________

Is this course on the general education list? Yes ( ) No (X)
If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

These courses are no longer part of the Geaux Teach Science and Mathematics Curriculum. The revised curriculum did not include these courses. The last students in this curriculum have graduated and the last time this course was offered was Fall 2008.
The EDCI 3001 course was listed as a co-requisite; however this course has already been modified to delete BIOUCHEM/PHYS courses.

APPROVALS:

Department Faculty Approval Date: 10/4/13
Department Chair's Signature: 

Graduate Dean's Signature: (Date)
College Contact: Kim Kubicek
College Contact E-mail: kkubicek@lsu.edu

College Faculty Approval Date: 10/8/13
College Dean's Signature: (Date)
Chair, FS C & C Committee: (Date)

Academic Affairs Approval: (Date)
REQUEST FOR DROPPING A COURSE

Department: PHYSICS AND ASTRONOMY
College: SCIENCE

Course rubric & no.: PHYS 3002
Title: Science Teaching in Secondary School II: Technology in Science Education

Semester hours of credit: __________

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No () N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:

(If additional space is needed, please attach a separate piece of paper.)

Cross-listed with SIOI 3002 and CHEM 3002

Is this course a prerequisite or corequisite for any other courses?

Yes (X) No ( )

If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric EDCI Course # 3002 Rubric Course # __________
Rubric ________Course # __________ Course # __________

Is this course on the general education list? Yes () No (X)

If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

These courses are no longer part of the Geaux Teach Science and Mathematics Curriculum. The revised curriculum did not include these courses. The last students in this curriculum have graduated and the last time this course was offered was Spring 2009.

APPROVALS:

Department Faculty Approval Date: 0ct 2015
Department Chair’s Signature: ____________________________ (Date)

Graduate Dean's Signature: ____________________________ (Date)
College Contact: Kim Kubicek
College Contact E-mail: kkubicek@lsu.edu

College Faculty Approval Date: 01/13
College Dean's Signature: ____________________________ (Date)
Chair, FS C & C Committee: ____________________________ (Date)

Academic Affairs Approval: ____________________________ (Date)
REQUEST FOR DROPPING A COURSE

Department: CHEMISTRY
College: SCIENCE
Date: 3/8/2013

Course rubric & no.: CHEM 3001
Title: Science Teaching in Secondary School: The Learner

Semester hours of credit: ______________

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:
(If additional space is needed, please attach a separate piece of paper.)

Cross-listed with SIOI 3001 and PHYS 3001

Is this course a prerequisite or corequisite for any other courses? Yes (X) No ( )

If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric CHEM Course # 3002 Rubric Course # __________

Rubric __________ Course # __________

Rubric __________ Course # __________

Is this course on the general education list? Yes ( ) No (X)

If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

These courses are no longer part of the Geaux Teach Science and Mathematics Curriculum. The revised curriculum did not include these courses. The last students in this curriculum have graduated and the last time this course was offered was Fall 2008.

The EDCI 3001 course was listed as a co-requisite; however this course has already been modified to delete SIOI/Chem/PHYs courses.

APPROVALS:

Department Chair's Signature ________________

Graduate Dean's Signature ________________

College Contact: Kim Kubicek

Academic Affairs Approval ________________

College Contact E-mail: kkubicek@lsu.edu
REQUEST FOR DROPPING A COURSE

Department: CHEMISTRY
College: SCIENCE

Course rubric & no: CHEM 3002

Title: Science Teaching in Secondary School II: Technology Science Education

Semester hours of credit: 

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ()

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:

(If additional space is needed, please attach a separate piece of paper.)

Cross-listed with SIOI 3002 and PHYS 3002

Is this course a prerequisite or corequisite for any other courses? Yes (X) No ()

If answer to above is yes, please list courses by rubric and course number.

(If additional space is needed, please attach a separate piece of paper.)

Rubric: EDCI  Course #: 3002

Rubric:  Course #:

Rubric:  Course #:

Is this course on the general education list? Yes () No (X)

If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

These courses are no longer part of the Geaux Teach Science and Mathematics Curriculum. The revised curriculum did not include these courses. The last students in this curriculum have graduated and the last time this course was offered was Spring 2009.

APPROVALS:

Department Faculty Approval Date: 3/20/2013

Graduate Dean's Signature: Kim Kubicek (Date)

College Contact: kkubicek@lsu.edu

College Faculty Approval Date: 10/3/13

College Dean's Signature: M. Celeste (Date)

Chair, FSE C. Committee: 10/29/13

Academic Affairs Approval: 11/8/10
REQUEST FOR DROPPING A COURSE

Department: Military Science
College: Humanities and Social Sciences

Course rubric & no.: MiIS 4130
Title: World War II

Semester hours of credit: 3

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:
(If additional space is needed, please attach a separate piece of paper.)

__________________
__________________

Is this course a prerequisite or corequisite for any other course?
Yes ( ) No (X)

If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric: ______ Course # ______ Rubric: ______ Course # ______
Rubric: ______ Course # ______ Rubric: ______ Course # ______

Is this course on the general education list? Yes ( ) No (X)
If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

Military Instructors do not meet SACs requirements to teach this course.

APPROVALS:

Department Faculty Approval Date: 22 April 2013
Department Chair’s Signature: [Signature] (Date)
Graduate Dean’s Signature: [Signature] (Date)
College Contact: ____________________________ (Please print name.)
College Contact E-mail: ____________________________

College Faculty Approval Date: 10/07/2013
College Dean’s Signature: [Signature] (Date)
Chair, FS CAC Committee: [Signature] (Date)
Academic Affairs Approval: [Signature] (Date)
Reginald Brown

From: Reginald Brown
Sent: Monday, April 22, 2013 12:06 PM
To: Victor L Stater
cc: Linda L Warmsley; iburn12@lsu.edu
Subject: Removal of Cross Listing - HIST 4055 & HIST 4130

Dr. Stater,
Our next housekeeping task is to delete the cross listing of HIST 4055, Civil War and HIST 4130, World War II.
I have attached a form C for your review and submission.
The military science department will also submit a form C per the instructions.

The catalogue currently reads:
HIST 4055 Civil War (3) Also offered as MILS 4055
HIST 4130 World War II (3) Also offered as MILS 4130

Respectfully,
Reginald Brown
Louisiana State University Military Science Department (ROTC), Contract Instructor, COMTek
106 Military Science Building, Baton Rouge, LA 70803
(225) 578-3568 or 2371 Work; (225) 578-3560 Fax; rbrow86@lsu.edu

From: Victor L Stater
Sent: Thursday, April 18, 2013 12:14 PM
To: Reginald Brown
Subject: RE: MIL SCI Minor in Professional Leadership change - Form F & Justification

The Department of History has no objection to the proposed changes.

Victor Stater
Professor and Chair

From: Reginald Brown
sent: Thursday, April 18, 2013 11:33 AM
To: Victor L Stater; Renee Edwards
Subject: FW: MIL SCI Minor in Professional Leadership change - Form F & Justification

Dr. Stater and Edwards,
Please see below.

Dr. Stater, this is in line with a conversation you and LTC Burns had months ago. The change clearly aligns the curriculum content with guidance provided by the Army Training and Doctrine Headquarters.

Dr. Edwards, this may be new to you, but the Army Training and Doctrine Headquarters removed the communication requirement a few years ago and included more intensive communication instruction in our regular Military Science curriculum.
REQUEST FOR DROPPING A COURSE

Department Military Science
College Humanities and Social Sciences

Course rubric & no. MILS 4055 Title Civil War

Semester hours of credit: 3

NOTE: Affected departments must be notified in writing and with adequate time allowed for written response(s). Responses must be included with this form.

Has this drop been discussed with and approved by all departments/colleges affected? Yes (X) No ( ) N/A ( )

This course is presently included or referenced in the following curriculum, minor, concentration, area of specialization, or catalog chapter:
(If additional space is needed, please attach a separate piece of paper.)

Military Science Minor

Is this course a prerequisite or corequisite for any other course?
Yes ( ) No (X )
If answer to above is yes, please list courses by rubric and course number.
(If additional space is needed, please attach a separate piece of paper.)

Rubric Course # Rubric Course #
Rubric Course # Rubric Course #

Is this course on the general education list? Yes ( ) No (x )
If yes, attach approval of drop from General Education Committee

REASON FOR REQUEST TO DROP COURSE:

Military Instructors do not meet SACs requirements to teach this course.

APPROVALS:
Department Faculty A 22 April 2013 College Faculty Approval Date 10/16/13
Department Ch (Date) (Date) Chair, FS C & C Committee (Date)
Graduate Dean’s Signature (Date)
College Contact: (Please print name.)

College Contact E-mail: ___________________________
Dr. Stater,

Our next housekeeping task is to delete the cross listing of HIST 4055, Civil War and HIST 4130, World War II. I have attached a form C for your review and submission. The military science department will also submit a form C per the instructions.

The catalogue currently reads:
HIST 4055 Civil War (3) Also offered as MILS 4055
HIST 4130 World War II (3) Also offered as MILS 4130

Respectfully,
Reginald Brown
Louisiana State University Military Science Department (ROTC), Contract Instructor, COMTek
106 Military Science Building, Baton Rouge, LA 70803
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Professor and Chair

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Subject: FW: MIL SCI Minor in Professional Leadership change - Form F & Justification

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