Code # SM24 (2015)

**Bulletin Change Transmittal Form**

**Undergraduate Curriculum Council** - Print 1 copy for signatures and save 1 electronic copy.

**Graduate Council** - Print 1 copy for signatures and send 1 electronic copy to [pheath@astate.edu](mailto:pheath@astate.edu)

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| --- |
| **Bulletin Change** Please attach a copy of all catalogue pages requiring editorial changes. |

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| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **COPE Chair (if applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **Department Chair:** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **General Education Committee Chair (If applicable)** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Undergraduate Curriculum Council Chair** |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date… **College Dean** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Graduate Curriculum Committee Chair** |
|  | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…  **Vice Chancellor for Academic Affairs** |

**1.Contact Person** (Name, Email Address, Phone Number)

William Burns, [wburns@astate.edu](mailto:wburns@astate.edu), 870-972-2535

**2.Proposed Change**

Remove the Department of Chemistry & Physics foreign language requirement.

**3.Effective Date**

Spring 2016

**4.Justification**

On September 23, 2015 the College of Sciences & Mathematics Curriculum Committee discussed a Bulletin Change Transmittal Form proposing the removal of the College of Sciences & Mathematics foreign language requirement. The college curriculum committee. It appears the committee tentatively approved the proposal, but suggests individual departments prepare appropriate documents indicating any department level foreign language requirements that would be proposed. Accordingly, the Department of Chemistry & Physics proposes the removal of all foreign language requirements for the BS Chemistry, BA Chemistry, and BS Physics degree programs.

**From the most current electronic version of the bulletin, copy all bulletin pages that this proposal affects and paste it to the end of this proposal.**

**To copy from the bulletin:**

1. Minimize this form.
2. Go to <http://registrar.astate.edu/bulletin.htm> and choose either undergraduate or graduate.
3. This will take you to a list of the bulletins by year, please open the most current bulletin.
4. Find the page(s) you wish to copy, click on the “select” button and highlight the pages you want to copy.
5. Right-click on the highlighted area.
6. Click on “copy”.
7. Minimize the bulletin and maximize this page.
8. Right-click immediately below this area and choose “paste”.
9. For additions to the bulletin, please change font color and make the font size larger than the surrounding text. Make it noticeable.
10. For deletions, strike through the text, change the font color, and enlarge the font size. Make it noticeable.

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**Major in Chemistry**

**Bachelor of Science**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

|  |  |
| --- | --- |
| **University Requirements:** | |
| See University General Requirements for Baccalaureate degrees (p. 41) | |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| PHSC 1003, Making Connections - Chemistry and Physics | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 83)  **Students with this major must take the following:**  *MATH 2204, Calculus I*  *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory*  *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory*  *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)* | **36** |
| **~~Language Requirement:~~** | **~~Sem. Hrs.~~** |
| *~~A student must complete the foreign language requirements before being considered a Chemistry major. (Refer to p. 353 for foreign language requirements).~~* | |
| **Major Requirements:** | **Sem. Hrs.** |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 4 |
| CHEM 2002, Computers in Chemistry | 2 |
| CHEM 2004, Descriptive Inorganic Chemistry | 4 |
| CHEM 3054, Quantitative Analysis | 4 |
| CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory | 4 |
| CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory | 4 |
| CHEM 3124, Physical Chemistry | 4 |
| CHEM 3134, Physical Chemistry II | 4 |
| CHEM 4204, Inorganic Chemistry | 4 |
| CHEM 4224, Instrumentation | 4 |
| CHEM 4243, Biochemistry | 3 |
| CHEM 427V, Research in Chemistry | 3 |
| CHEM 4281, Chemistry Seminar | 1 |
| MATH 2214, Calculus II | 4 |
| MATH 3254, Calculus III | 4 |
| PHYS 2034, University Physics I | 4 |
| PHYS 2044, University Physics II | 4 |
| **Sub-total** | **61** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **20** |
| **Total Required Hours:** | **120** |

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**Major in Chemistry**

**Bachelor of Science**

**Emphasis in Pre-Health Profession Studies**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

|  |  |
| --- | --- |
| **University Requirements:** | |
| See University General Requirements for Baccalaureate degrees (p. 41) | |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| PHSC 1003, Making Connections - Chemistry and Physics | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 83)  **Students with this major must take the following:**  *MATH 2204, Calculus I*  *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory*  *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory*  *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)* | **36** |
| **~~Language Requirement:~~** | **~~Sem. Hrs.~~** |
| *~~A student must complete the foreign language requirements before being considered a Chemistry major. (Refer to p. 353 for foreign language requirements).~~* | |
| **Major Requirements:** | **Sem. Hrs.** |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 4 |
| CHEM 2002, Computers in Chemistry | 2 |
| CHEM 2004, Descriptive Inorganic Chemistry | 4 |
| CHEM 3054, Quantitative Analysis | 4 |
| CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory | 4 |
| CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory | 4 |
| CHEM 3124, Physical Chemistry | 4 |
| CHEM 3134, Physical Chemistry II | 4 |
| CHEM 4204, Inorganic Chemistry | 4 |
| CHEM 4224, Instrumentation | 4 |
| CHEM 4243, Biochemistry | 3 |
| CHEM 427V, Research in Chemistry | 3 |
| CHEM 4281, Chemistry Seminar | 1 |
| MATH 2214, Calculus II | 4 |
| MATH 3254, Calculus III | 4 |
| PHYS 2034, University Physics I | 4 |
| PHYS 2044, University Physics II | 4 |
| **Sub-total** | **61** |
| **Emphasis Area (Pre-Health Profession Studies):**  *Six hours of the electives below must be upper-level.* | **Sem. Hrs.** |
| BIO 1303 **AND** 1301, Biology of Animals and Laboratory | 4 |
| Biology Electives | 8 |
| **Sub-total** | **12** |
| **Electives:** | **Sem. Hrs.** |
| Electives | **8** |
| **Total Required Hours:** | **120** |

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**Major in Chemistry**

**Bachelor of Arts**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

|  |  |
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| **University Requirements:** | |
| See University General Requirements for Baccalaureate degrees (p. 41) | |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| PHSC 1003, Making Connections - Chemistry and Physics | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 83)  **Students with this major must take the following:**  *MATH 2204, Calculus I*  *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory*  *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory*  *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)* | **36** |
| **~~Language Requirement:~~** | **~~Sem. Hrs.~~** |
| *~~(Refer to p. 353 for foreign language requirements).~~* | ~~0-12~~ |
| **Major Requirements:** | **Sem. Hrs.** |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 4 |
| CHEM 2004, Descriptive Inorganic Chemistry | 4 |
| CHEM 3054, Quantitative Analysis | 4 |
| CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory | 4 |
| CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory | 4 |
| CHEM 3154, Survey of Physical Chemistry | 4 |
| CHEM 4243, Biochemistry | 3 |
| PHYS 2054, General Physics I **AND**  PHYS 2064 General Physics II **OR**  PHYS 2034, University Physics I **AND**  PHYS 2044, University Physics II | 8 |
| **Sub-total** | **35** |
| **Electives:**  *Twenty-six hours of the electives below must be upper-level.* | **Sem. Hrs.** |
| Electives | **~~34-~~ 46** |
| **Total Required Hours:** | **120** |

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**Major in Chemistry**

**Bachelor of Arts**

**Emphasis in Pre-pharmacy**

A complete 8-semester degree plan is available at http://registrar.astate.edu/.

|  |  |
| --- | --- |
| **University Requirements:** | |
| See University General Requirements for Baccalaureate degrees (p. 41) | |
| **First Year Making Connections Course:** | **Sem. Hrs.** |
| PHSC 1003, Making Connections - Chemistry and Physics | **3** |
| **General Education Requirements:** | **Sem. Hrs.** |
| See General Education Curriculum for Baccalaureate degrees (p. 83)  **Students with this major must take the following:**  *MATH 2204, Calculus I*  *CHEM 1013* ***AND*** *1011, General Chemistry I and Laboratory*  *BIO 2013* ***AND*** *2011, Biology of the Cell and Laboratory*  *ECON 2313, Principles of Macroeconomics*  *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)* | **36** |
| **~~Language Requirement:~~** | **~~Sem. Hrs.~~** |
| *~~(Refer to p. 353 for foreign language requirements).~~* | ~~0-12~~ |
| **Major Requirements:** | **Sem. Hrs.** |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 4 |
| CHEM 2004, Descriptive Inorganic Chemistry | 4 |
| CHEM 3054, Quantitative Analysis | 4 |
| CHEM 3103 **AND** 3101, Organic Chemistry I and Laboratory | 4 |
| CHEM 3113 **AND** 3111, Organic Chemistry II and Laboratory | 4 |
| CHEM 3154, Survey of Physical Chemistry | 4 |
| CHEM 4243, Biochemistry | 3 |
| PHYS 2054, General Physics I **AND**  PHYS 2064 General Physics II **OR**  PHYS 2034, University Physics I **AND**  PHYS 2044, University Physics II | 8 |
| **Sub-total** | **35** |
| **Emphasis Area (Pre-pharmacy):** | **Sem. Hrs.** |
| BIO 1303 **AND** 1301, Biology of Animals and Laboratory | 4 |
| BIO 4104, Microbiology | 4 |
| **Sub-total** | **8** |
| **Electives:**  *Twenty-two hours of the electives below must be upper-level.* | **Sem. Hrs.** |
| Electives | **~~26 -~~ 38** |
| **Total Required Hours:** | **120** |