Code # SM11 (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 Select three of the following (Geog 3273, Geol 1003, Phys 1103 or Phys 3133, Phys 3043) from the major requirements of the BSE physics emphasis degree . Increase the degree elective hours by 9 credits

**3.Effective Date**

Spring 2016

**4.Justification**

Reflects state level changes in BSE licensing.

**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 General Science**

**Bachelor of Science in Education**

**Emphasis in Physics**

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*  *PHYS 2034, University Physics I*  *HIST 2763, The United States to 1876* ***OR***  *HIST 2773, The United States since 1876*  *POSC 2103, Introduction to United States Government*  *PSY 2013, Introduction to Psychology*  *Twelve hours of Social Sciences (Required Departmental Gen. Ed. Option)* | **36** | |
| **Major Requirements:** | **Sem. Hrs.** | |
| CHEM 1013 **AND** 1011, General Chemistry I and Laboratory | 4 | |
| CHEM 1023 **AND** 1021, General Chemistry II and Laboratory | 4 | |
| CS 2114, Structured Programming | 4 | |
| MATH 2214, Calculus II | 4 | |
| MATH 3254, Calculus III | 4 | |
| MATH 4403, Differential Equations | 3 | |
| PHYS 2044, University Physics II | 4 | |
| PHYS 3153, Mechanics | 3 | |
| PHYS 3203, Electromagnetic Theory | 3 | |
| PHYS 3303, Modern Physics | 3 | |
| **~~Select three of the following:~~**  ~~GEOG 3723, Introduction to Physical Geography~~  ~~GEOL 1003, Environmental Geology~~  ~~PHYS 1103, Introduction to Space Science~~ **~~OR~~**  ~~PHYS 3133, Astronomy~~  ~~PHYS 3043, Atmospheric Dynamics~~ | | ~~9~~ | |
| **Sub-total** | | **~~45~~ 36** | |
| **Professional Education Requirements:**  Grade of “C” or better required for all Professional Education Requirements.  Courses denoted below with an asterisk (\*) require admission to the Teacher Education Program. For additional information, see Professional Education Requirements for Sec­ondary Majors in the College of Education and Behavioral Science section. | **Sem. Hrs.** | |
| \*EDSC 4593, Methods and Materials for Teaching Science in the Secondary School | 3 | |
| ELSE 3643, The Exceptional Student in the Regular Classroom | 3 | |
| PSY 3703, Educational Psychology | 3 | |
| SCED 2513, Introduction to Secondary Teaching | 3 | |
| \*SCED 3515, Performance Based Inst. Design | 5 | |
| \*SCED 4713, Educational Measurement with Computer Applications | 3 | |
| \*TIPH 4826, Teaching Internship in the Secondary School | 12 | |
| **Sub-total** | **32** | |
| **Additional General Requirements for Teacher Education:** | **Sem. Hrs.** | |
| **HLTH 2513, Principles of Personal Health** | **3** | |
| **Electives:** | **Sem. Hrs.** | |
| **Electives** | **~~1~~  10** | |
| **Total Required Hours:** | **120** | |