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| For Academic Affairs and Research Use Only |
| Proposal Number | SM02 |
| CIP Code:  |  |
| Degree Code: |  |

**Program Modification Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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| **Modification Type: [ ]Admissions, [x]Curricular Sequence, or [ ]Other**  |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| John Hershberger | 1/10/2023 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| William Burns | 1/11/2023 |

**Department Chair**  |

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**Head of Unit (if applicable)**   |
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| John Hershberger | 1/23/2023 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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**Director of Assessment** *(only for changes impacting assessment)* |

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**Graduate Curriculum Committee Chair** |
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| Jennifer L. Bouldin | 1/27/2023 |

**College Dean** |

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| Len Frey | 2/22/2023 |

**Vice Chancellor for Academic Affairs** |
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**General Education Committee Chair (if applicable)**   |  |

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

John Hershberger, jhershberger@astate.edu, 870-972-3313

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

Modify Chemistry minor to allow students to take Physical Chemistry I or Survey of Physical Chemistry to satisfy the requirements for the minor in chemistry.

1. **Effective Date**

Fall 2023

1. **Justification –** *Please provide details as to why this change is necessary.*

Many engineering students have a significant mathematics background (taking the calculus sequence) and they would be better served with a chemistry minor option of taking the more math-involved Physical Chemistry I for the chemistry minor instead of the Survey of Physical Chemistry course that has a different set of prerequisites.

**Bulletin Changes**

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| **Instructions**  |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.** **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.**  |

Before:

## REQUIRED COURSES:

* [CHEM 1013 - General Chemistry I](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 1011 - General Chemistry I Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**
* [CHEM 1023 - General Chemistry II](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 1021 - General Chemistry II Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**
* [CHEM 3103 - Organic Chemistry I](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 3101 - Organic Chemistry I Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**
* [CHEM 3113 - Organic Chemistry II](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 3111 - Organic Chemistry II Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**

### Select two of the following:

* [CHEM 3054 - Quantitative Analysis](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **4**
* [CHEM 3153 - Survey of Physical Chemistry](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
*
* [CHEM 4243 - Biochemistry](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3** ***AND***
* [CHEM 4241 - Biochemistry Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**

## TOTAL REQUIRED HOURS: 23-24

After:

## REQUIRED COURSES:

* [CHEM 1013 - General Chemistry I](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 1011 - General Chemistry I Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**
* [CHEM 1023 - General Chemistry II](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 1021 - General Chemistry II Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**
* [CHEM 3103 - Organic Chemistry I](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 3101 - Organic Chemistry I Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**
* [CHEM 3113 - Organic Chemistry II](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3**
* [CHEM 3111 - Organic Chemistry II Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**

### Select two of the following:

* [CHEM 3054 - Quantitative Analysis](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **4**
* [CHEM 3153 - Survey of Physical Chemistry](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3 OR CHEM 3124 – Physical Chemistry I Sem. Hrs 4**
*
* [CHEM 4243 - Biochemistry](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **3** ***AND***
* [CHEM 4241 - Biochemistry Laboratory](https://catalog.astate.edu/preview_program.php?catoid=3&poid=716&returnto=77) **Sem. Hrs:** **1**

## TOTAL REQUIRED HOURS: 23-24

Paste bulletin pages here...

**Appendix A, 8-Semester Plan**

(**Referenced in #2** - **Undergraduate Proposals Only)**

*Instructions: Please identify new courses in italics*.

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| **Arkansas State University-Jonesboro****Degree:****Major:****Year:** |
| Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Developmental courses do not count toward total degree hours. **Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. In most cases, general education courses may be interchanged between semesters.** A minimum of 45 hours of upper division credit (3000-4000 level) is required for this degree. |
| **Year 1** |  | **Year 1** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Year 2** |  | **Year 2** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Total Hours** |  |  |  |  | **Total Hours** |  |  |  |
| **Year 3** |  | **Year 3** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Total Hours** |  |  |  |  | **Total Hours** |  |  |  |
| **Year 4** |  | **Year 4** |
| **Fall Semester** |  | **Spring Semester** |
| **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |  | **Course No.** | **Course Name** | **Hrs** | **Gen Ed** |
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| **Total Hours** |  |  |  |  | **Total Hours** |  |  |  |
| **Total Jr/Sr Hours \_\_\_ Total Degree Hours \_\_\_** |
| **Graduation Requirements:** |