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**Bulletin / Banner Change Transmittal Form**

**[x] Undergraduate Curriculum Council**

**[ ] Graduate Council**

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

Email completed proposals to curriculum@astate.edu for inclusion in curriculum committee agenda.

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| John Hershberger | 9/29/2017 |

**Department Curriculum Committee Chair** |

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**COPE Chair (if applicable)** |
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| William Burns | 9/29/2017 |

**Department Chair:**  |

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**Head of Unit (If applicable)**   |
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| David F. Gilmore | 9/29/2017 |

**College Curriculum Committee Chair** |

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**Undergraduate Curriculum Council Chair** |
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| Anne A. Grippo  | 10/3/2017 |

**College Dean** |

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**Graduate Curriculum Committee Chair** |
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**General Education Committee Chair (If applicable)**   |

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**Vice Chancellor for Academic Affairs** |

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

William Burns, wburns@astate.edu 870-972-3086

**2.Proposed Change**

Change CHEM 1052 course frequency from Spring, Summer to Fall, Spring

**3.Effective Date**

Spring 2018

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

CHEM 1052 is taught during both Fall and Spring, but is not taught during Summer. Thus, the proposed frequency change will provide students with accurate information regarding this course offering.

**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. Follow the following guidelines for indicating necessary changes.** **\*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.** - Deleted courses/credit hours should be marked with a red strike-through (~~red strikethrough~~)- New credit hours and text changes should be listed in blue using enlarged font (blue using enlarged font). - Any new courses should be listed in blue bold italics using enlarged font (***blue bold italics using enlarged font***)*You can easily apply any of these changes by selecting the example text in the instructions above, double-clicking the ‘format painter’ icon 🡪 , and selecting the text you would like to apply the change to.**Please visit* [*https://youtu.be/yjdL2n4lZm4*](https://youtu.be/yjdL2n4lZm4) *for more detailed instructions.* |

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**Method and Material Teaching Science (EDSC)**

**EDSC 4593. Methods and Materials Teaching Science in the Secondary School** Philosophical bases, teaching techniques, curriculum development, classroom management, facility resources, and equipment are emphasized. Must be admitted to the Teacher Education Program. Fall, Spring.

**Teaching Internship (TIBI)**

**TIBI 4825. Biology Teaching Internship in the Secondary School**

Ten semester hours. Full semester teaching internship. Fall, Spring.

**TIBI 4826. Biology Teaching Internship in the Secondary School**

Twelve semester hours. Full semester of teaching internship. Fall, Spring..

**DEPARTMENT OF CHEMISTRY AND PHYSICS**

**Chemistry (CHEM)**

**CHEM 1003. Introduction to Chemistry** Fundamentals of chemical terms and applications to laboratory studies. Extensive drills on calculations and use of hand held calculator in problem solving. Recommended for those with no prior study of chemistry. Special course fees may apply. Corequisite or prerequisite, MATH 0003, MATH 0013, or MATH 1023. Fall, Spring.

**CHEM 1011. General Chemistry I Laboratory** Introduction and development of hands-on tech- niques essential to the use of fundamental equipment and glassware common in all laboratory based sub-fields of chemistry. Computer-based graphical and statistical analysis of data. Three hours per week. Special course fees may apply. Prerequisite or corequisite, CHEM 1013. Fall, Spring, Summer. (ACTS#: CHEM 1414)

**CHEM 1013. General Chemistry I** Study of chemical reactions and equations, periodic rela- tionships, the gaseous state, and the fundamentals of atomic theory, quantum theory, electronic structure, chemical bonding, stoichiometry and thermochemistry. Special course fees may apply. Prerequisite, MATH 1023 or ACT composite score of 23 or higher. Prior completion of CHEM 1003 or high school chemistry strongly recommended. Fall, Spring, Summer. (ACTS#: CHEM 1414)

**CHEM 1021. General Chemistry II Laboratory** Continuation of CHEM 1011, with focus on dem- onstrating mastery of selected hands-on laboratory techniques and computer-assisted graphical and statistical analysis of data. Three hours per week. Corequisite or prerequisite, CHEM 1023. Prerequisite, CHEM 1011. Fall, Spring, Summer. (ACTS#: CHEM 1424)

**CHEM 1023. General Chemistry II** Study of liquids, solids, solutions and the fundamentals of chemical kinetics, chemical equilibria, acids and bases, thermodynamics, and electrochemistry. Special course fees may apply. Prerequisites, CHEM 1011 and C or better in CHEM 1013. Fall, Spring, Summer. (ACTS#: CHEM 1424)

**CHEM 1041. Fundamental Concepts of Chemistry Laboratory** Special course fees apply.

Prerequisite or corequisite of CHEM 1043. Fall, Summer.

**CHEM 1043. Fundamental Concepts of Chemistry** A one semester chemistry survey course introducing selected fundamental concepts including dimensional analysis, mole concept, atomic and molecular structure, nomenclature, chemical reactions, thermochemistry, intermolecular inter- actions, gases, mixtures, kinetics, equilibrium and acid base chemistry. Fall, Summer.

**CHEM 1052. Fundamental Concepts of Organic and Biochemistry** A continuation of CHEM 1043 with a focus on the role of chemistry in human body functions. Prerequisites CHEM 1043 and CHEM 1041. Fall, Spring~~, Summer~~.

**CHEM 2002. Computers in Chemistry** Introduction to computer software and common practices used in the analysis and presentation of scientific data. Corequisite or prerequisite, CHEM 1023 and CHEM 1021. Spring.