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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 4281 course frequency from Fall, Spring to Spring

**3.Effective Date**

Spring 2018

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

CHEM 4281 is a required course for BS chemistry majors, and routinely has low enrollment. All students can be accommodated if the course frequency is reduced, and the spring offering will allow all students to participate in create@state.

**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.* |

Page 561 of the 2017-2018 Arkansas State University Undergraduate Bulletin

**CHEM 4241. Biochemistry Laboratory** Experiments aimed to acquaint the student with problems and more important methods of biochemical research. Laboratory three hours per week. Special course fees may apply. Corequisite, CHEM 4243. Fall.

**CHEM 4243. Biochemistry** Presentation of the important areas of modern biochemistry and a description of methods commonly employed in biochemical research. Lecture three hours per week. Special course fees may apply. Prerequisites, CHEM 3113 and 3111. Fall, Spring~~, Summer~~.

**CHEM 427V. Research in Chemistry** Directed study in some specialized phase of chemistry designed to provide experience in independent investigations. Special course fees may apply. Prerequisite, permission of the Chemistry Departments Independent Studies Committee. Fall, Spring, Summer.

**CHEM 4281. Chemistry Seminar** Preparation and presentation of a professional quality com- puter based seminar focusing on research completed during Research in Chemistry, CHEM 427V. Chemistry majors are required to take this course in their senior year. Prerequisite, third hour of CHEM 427V. ~~Fall,~~ Spring.

**CHEM 4343. Pharmacology** The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, BIO 2223 or BIO 3233, BIO 4104, and CHEM 4243. Spring.

**CHEM 4393. Special Problems** Selected special or current topics of interest to faculty and stu- dents that require prerequisite coursework. See individual semester schedules for more information about each offering. Registration restricted by permission of instructor. Demand.

**CHEM 4443. Advanced Biochemistry** A continuation of CHEM 4243 biochemistry with a focus on anabolic metabolism and bioinformation processes vital in biological systems and current research in biochemistry and medical correlates. Dual listed as CHEM 5243. Prerequisite, CHEM 4243. Spring.

# Forensic Science (FOSC)

**FOSC 411V. Practical Training in Forensic Science** Directed study or crime laboratory internship in some specialized field of forensic science designed to provide experience and practical training in forensic chemistry and forensic biology. Special course fees may apply. Special course fees may apply. Prerequisite, permission of the Forensic Science Internship Coordinator. Fall, Spring, Summer.

# Geology (GEOL)

**GEOL 1001. Environmental Geology Laboratory** Two hours per week. Laboratory exercises in environmental aspects of the geosciences. To be taken concurrently with GEOL 1003. Fall, Spring. (ACTS#: GEOL 1124)

**GEOL 1003. Environmental Geology** A survey of fundamental geologic processes and associ- ated hazards earthquakes, volcanic eruptions, floods, etc. and the interactions of humans with the environment. Lecture three hours. Prerequisite, MATH 0013 or ACT mathematics score of 16. Fall, Spring. (ACTS#: GEOL 1124)

**GEOL 1014. Historical Geology** History and sequence of development of the earth and its in- habitants, including an introduction to the taxonomy and morphology of common fossils from plant and animal kingdoms. Lecture three hours, laboratory two hours per week. Demand.