Code # SM06 (2015)

**Program and/or Course Deletion Proposal-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)

|  |
| --- |
| **Program and/or Course Deletion**  Please complete the following and attach a copy of the catalogue page(s) showing what changes are necessary. |

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 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. Program and/or Course Title, Prefix and Number**

Advanced Analytical Chemistry, CHEM 4353

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

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

**3. Last semester student can graduate with this degree and/or last semester course will be offered**

Last semester offered Fall 2007

**4. Student Population**

a. The program and/or course was initially created for what student population?

Undergraduate chemistry students

b. How will deletion of this program and/or course affect those students?

No impact. The course was an elective.

**5.**

**a. How will this affect the department?**

No impact. The course was an elective. It was last taught fall 2007.

**b. Does this program and/or course affect another department?**  no

**c. If yes, please provide contact information from the Dean, Department Head, and/ or Program Director whose area this affects.**

Enter text...

**6. (For courses only) Will another course be substituted?**  No

**If yes, what course?**

**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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**CHEM 4053. Geochemistry** An overview of the chemistry of terrestrial materials. Emphasis will be on the chemical processes which formed and have changed the Earth. Special course fees may apply. Prerequisite, CHEM 3134. Spring, even.

**CHEM 4204. Inorganic Chemistry** Includes the recent concepts of bonding and molecular structure as well as some of the less common chemistry of the elements. Lecture three hours, laboratory three hours per week. Special course fees may apply. Prerequisites, CHEM 3124. Spring.

**CHEM 4224. Instrumentation** Application and operational theories of modern instruments. Laboratory includes use of gas chromatography, infrared, ultraviolet visible and atomic absorption, spectroscopy, and electrochemical techniques. Lecture two hours, laboratory six hours per week. Special course fees may apply. Prerequisites, CHEM 3054, CHEM 3124. Fall.

**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 4254. Fundamentals of Mass Spectrometry** Special topics in spectrochemical analysis. Atomic and molecular spectrometry, surface analytical methods, and their applications to forensic, environmental, atmospheric, geochemical, and bioanalytical problems. Integrated lecture and laboratory format. Special course fees may apply. Prerequisite, CHEM 3054 and CHEM 4243. Demand.

**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 com­puter 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 4353. Advanced Analytical Chemistry~~** ~~A discussion of principles and methods of applica­tion of analytical chemistry to problems of analysis and the significance of data. Special course fees may apply. Prerequisite, CHEM 3054. Demand.~~

**CHEM 4393. Special Problems** Selected special or current topics of interest to faculty and stu­dents 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 2013. Forensic Science Survey** An overview of forensic science including techniques in crime scene investigation, physical evidence collection and analysis, and expert testimony. Special course fees may apply. Fall.

**FOSC 2113. Forensic Science Professional Practice** Introduction of ethics and methods of forensic science from the perspective of practicing professionals including case studies and semi­nars. Special course fees may apply. Prerequisite, FOSC 2013. Spring.