



University of Washington Office of the President, Box 351230

May 19, 2004

Dean David C. Hodge  
College of Arts and Sciences  
Box 353765

Dear David:

Based upon the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the name change and revised requirement for the Bachelor of Science degree in Chemistry—ACS Certified. A copy of the change is attached.

I am writing to inform you that the Department of Chemistry is authorized to specify these requirements beginning autumn quarter 2004.

The new requirements should be incorporated in printed statements and in individual department websites as soon as possible. The *General Catalog* website will be updated accordingly by the Registrar's Office.

Sincerely yours,

Lee L. Huntsman  
President

Enclosure

cc: Professor Paul B. Hopkins (with enclosure)  
Mr. W. W. Washburn (with enclosure)  
Mr. Robert Corbett (with enclosure) CHEM-021104



# Creating & Changing Undergraduate Academic Programs\*

After college/school review, send signed original and 8 copies to: FCAS, Box 351271

CHEM-021104

College: Arts & Sciences Department or Unit: Chemistry Date: 2/11/04

### New Programs

- Leading to a Bachelor of \_\_\_\_\_ in \_\_\_\_\_ degree
- Leading to a Bachelor of \_\_\_\_\_ degree with a major in \_\_\_\_\_
- Leading to a \_\_\_\_\_ Option within the existing major in \_\_\_\_\_
- Leading to a Minor in \_\_\_\_\_

### Changes to existing programs

- New Admission Requirements for the Major in \_\_\_\_\_ within the Bachelor of \_\_\_\_\_
- Revised Admission Requirements for the Major in \_\_\_\_\_ within the Bachelor of \_\_\_\_\_
- Revised Program Requirements for the Major in Chemistry within the Bachelor of Science
- Revised Requirements for the Option in \_\_\_\_\_ within the major in \_\_\_\_\_
- Revised Requirements for the Minor in \_\_\_\_\_

-ACS Certified

### Other Changes

- Change name of program from Option B-ACS Certified to BS Chemistry-ACS Certified  New or Revised Continuation Policy for \_\_\_\_\_
- Eliminate program in \_\_\_\_\_

Proposed Effective Date: (quarter/year) Autumn 2004

Contact Person	Phone Number	Email
Lani Stone	3-9343	stone@chem.washington.edu

1. **Explanation of and Rationale for Proposed Change:** (Please use additional pages if necessary. For new programs, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support, and departmental handouts.) The Department of Chemistry offers a BS in Chemistry, currently called Option B, which is certified by the American Chemical Society (ACS). We must maintain their approval to award this degree. In order to meet the current ACS criteria we need to require a biochemistry course for the ACS degree. We determined that BIOC 405 would satisfy this requirement and are complying with the ACS decision by requiring BIOC 405 and lowering the number of upper division electives. We would also like to change the name of the ACS certified degree from Option B-ACS Certified to BS in Chemistry-ACS Certified. We feel that this name change more accurately reflects the nature of the ACS certified degree.

\* For information about when and how to use this form please go to <http://www.washington.edu/faculty/facsenate/councils/fcas/1503/>.

## Creating & Changing Undergraduate Academic Programs

### 2. Catalog Copy

A. Catalog Copy as Currently Written (Include only sections/paragraphs that would be changed if your request is approved. Please cross out or otherwise highlight any deletions.)

#### Option B -- ACS-Certified Degree

*Major Requirements:* MATH 124, 125, 126, and two additional courses above 300 (recommended MATH 307 and 308, or AMATH 351 and 352); (alternative math requirement: MATH 134, 135, 136); one year of physics including 1 credit of laboratory (PHYS 114, 115, and 116, and at least one of 117, 118, or 119; or 121, 122, and 123, with the 121 sequence recommended); CHEM 142, 152, 162, 312 (or 145, 155, 165); CHEM 317 and 321; CHEM 237, 238, 239, 241, and 242 (or 335, 336, 337, 346, and 347); CHEM 416, 455, 456, and 457 (or 475, 476, and 477); 14 credits of numerically graded CHEM or BIOC 400-level courses (not previously listed) which must include CHEM 461, 426 and one more course with laboratory (currently 462, 463, 464, and 465); strongly recommended, research credits in CHEM 399 and 499 (but CHEM 498 may not be used to satisfy this requirement). Minimum grade of 2.0 is required in each chemistry course; a minimum GPA of 2.80 is required for courses used to satisfy the major degree requirements. For graduation, a minimum of 184 credits are required with a minimum GPA of 2.80.

B. Proposed Catalog Copy, Reflecting Requested Changes (Include exact wording as you wish it to be shown in the printed catalog. Please underline or otherwise highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in department publications.)

#### BS in Chemistry – ACS Certified Degree

*Major Requirements:*

- CHEM 142, 152, 162, 312 or (145, 155, 165); CHEM 237, 238, 239, 241 and 242 (or 335, 336, 337, 346 and 347); CHEM 317 and 321; CHEM 416; CHEM 455, 456, and 457 (or 475, 476, and 477); 14 credits of numerically graded CHEM or BIOC 400-level courses (not previously listed) which must include BIOC 405,\* CHEM 426 and 461 and one more course with laboratory (currently 462, 463, 464, and 465); strongly recommended, research credits in CHEM 399 and 499.
- MATH 124, 125, 126 and two additional math courses above 300 (recommended MATH 307 and 308, or AMATH 351 and 352); (alternative math requirement: 134, 135, 136);
- PHYS 121, 122, 123 (or 114, 115, 116 plus one physics lab course. 121 sequence recommended. Minimum grade of 2.0 is required in each chemistry course; a minimum GPA of 2.80 is required for courses used to satisfy the major degree requirements; a minimum overall cumulative GPA of 2.80 is required for graduation. For graduation, a minimum of 184 number credits is required with a minimum GPA of 2.80

~~\*Students should contact chemistry advising regarding alternative prerequisites for BIOC 405~~

See Attached for alternate formatting.

### 3. Signatures (required)

Chair/Program Director TE <i>[Signature]</i>	Date 2/13/04	Dean Ronald L. Swing	Date MAR 16 2004
College Committee <i>[Signature]</i>	Date MAR 16 2004	Faculty Council on Academic Standards <i>[Signature]</i>	Date 4/30/04

## Bachelor of Science

### ~~Option B~~ -- ACS-Certified Degree

#### *Major Requirements:*

1. Chemistry and biochemistry coursework:
  - General chemistry: CHEM 142, 152, 162 (or 145, 155, 165).
  - Organic chemistry: CHEM 237, 238, 239, 241, and 242 (or 335, 336, 337, 346, and 347).
  - Inorganic chemistry: CHEM 312, 317, and 416 (students completing 165 are exempt from 312).
  - Analytical chemistry: CHEM 321 and 426.
  - Physical chemistry: CHEM 455, 456, and 457 (or 475, 476, and 477) and 461.
  - Biochemistry: BIOC 405\*
  - Five additional credits of numerically graded CHEM or BIOC 400-level courses (not previously listed) that must include one of the following lab courses: 462, 463, 464, and 465 (CHEM 498 may not be used to satisfy this requirement).
  - Strongly recommended, research credits in CHEM 399 and 499.

\* Students should contact Chemistry advising regarding alternative prerequisites for BIOC 405
2. MATH 124, 125, 126, and two additional courses above 300 (recommended MATH 307 and 308, or AMATH 351 and 352); (alternative math requirement: MATH 134, 135, 136)
3. PHYS 121, 122, and 123 or PHYS 114, 115, and 116, and at least one of 117, 118, or 119. The PHYS 121 sequence is recommended.
4. Minimum grade of 2.0 is required in each chemistry course; a minimum GPA of 2.80 is required for courses used to satisfy the major degree requirements described above. For graduation, a minimum of 184 credits is required with a minimum UW GPA of 2.80.