UNIVERSITY OF WASHINGTON

OFFICE OF THE PRESIDENT

May 17, 2012

Interim Dean Robert C. Stacey
College of Arts and Sciences
Box 353765

Dear Bob:

Based on the recommendation of the Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the revised admission requirements for both the Bachelor of Arts degree and the Bachelor of Science degree in Biochemistry as well as the revised program requirements for the Bachelor of Science degree in Biochemistry. A copy of the changes is attached.

I am writing to inform you that the Department of Chemistry is authorized to specify these requirements beginning spring quarter 2012.

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,

Michael K. Young
President

Enclosure

cc: Ms. Mary Harty (with enclosure)
Mr. Robert Corbett (with enclosure)
Dr. Deborah H. Wiegand (with enclosure)
Ms. Virjean Edwards (with enclosure BIOC-20120209)

301 Gerberding Hall • Box 351230 • Seattle, Washington 98195-1230 • 206-543-5010 • FAX: 206-616-1784

✓ 3-1-2012 ⁂ S

UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

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BIOC- 20120209

After college/school/campus review, send a signed original and 1 copy to the Curriculum Office/FCAS, Box 355850.
For information about when and how to use this form: http://depts.washington.edu/uwcr/1503instructions.pdf

College/Campus Arts & Science / Seattle	**Department/Unit** Biochemistry	**Date** 2/9/2012

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 Biochemistry within the Bachelor of Science and Bachelor of Arts.
- ☒ Revised Program Requirements for the Major in Biochemistry within the Bachelor of Science.
- ☐ Revised Requirements for the Option in _____within the major in _____.
- ☐ Revised Requirements for the Minor in _____.

Other Changes

- ☐ Change name of program from _____ to
- ☐ New or Revised Continuation Policy for
- ☐ Eliminate program in _____.

Proposed Effective Date: **Quarter:** ☐ Autumn ☐ Winter ☒ Spring ☐ Summer **Year: 2012**

Contact Person: Mary Harty	Phone: 6-9880	Email: harty@chem.washington.edu	Box: 351700

EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE

For new program, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. (*Use additional pages if necessary*).

We are updating the names of our Admission Pathways to "Direct", "Research/Honors", "Early", and "Regular" in order to avoid the term "First Year" since students thought this meant they must be Freshman in order to apply via the "First Year" Pathway.

We want to add Genome 361 (3 credits) as a course to fulfill our Genome course requirement for the BS Biochemistry. Genome 361 is a new 3 credit course that is similar in topic coverage to Genome 371 which is a 5 credit course. Genome 361 is offered Winter, Spring, & Summer quarter and Genome 371 is now only offered Autumn quarter.

Since the new Genome 361 course is 2 fewer credits than Genome 371 we will reduce the total number of credits for the BS Biochemistry from 197 to 195 credits.

OTHER DEPARTMENTS AFFECTED

List all departments/units/ or co-accredited programs affected by your new program or changes to your existing program and acquire the signature of the chair/director of each department/unit listed. Attach additional page(s) if necessary. *See online instructions.

Department/Unit:	Chair/Program Director:	Date:
Genome Sciences	Robert H. Waterston	2/13/2012
Department/Unit:	Chair/Program Director	Date:

CATALOG COPY

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.

See attached current catalog copy

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). **Please note:** all copy will be edited to reflect uniform style in the General Catalog.

See attached proposed catalog copy

APPROVALS

Chair/Program Director: PSU Paul B. Hopkins Tim Sands	Date: 2/10/12
College/School/Campus Curriculum Committee:	Date: 4/25/12
Dean/Vice Chancellor:	Date: 4/25/12
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date: MAY 11, 2012

POST TRI-CAMPUS APPROVAL (when needed)

Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date:

Current catalog copy: Biochemistry

Undergraduate Program

Adviser
109 Bagley, Box 351700
206-616-9880, 206-543-9343, 206-685-8376
advisers@chem.washington.edu

The Biochemistry Program offers the following programs of study:

- The Bachelor of Science degree with a major in biochemistry (requires ~~197~~ credits)
- The Bachelor of Arts degree with a major in biochemistry

Bachelor of Science

Suggested First- and Second-Year Courses: BIOL 180, BIOL 200 (or BIOL 201, BIOL 202); CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM 145, CHEM 155, CHEM 165), CHEM 237, CHEM 238, CHEM 239, CHEM 241, CHEM 242; MATH 124, MATH 125, MATH 126; PHYS 121, PHYS 122, PHYS 123 (or PHYS 114, PHYS 115, PHYS 116 with one physics lab course strongly recommended).

Program Admission Requirements

Beginning spring quarter 2010, application to B.A. and B.S. degree programs in biochemistry is competitive. Applicants are considered in the following groups: Direct Freshman Admission, Early Admission, First-Year Admission, and Regular Admission. Completion of minimum requirements described below does not guarantee admission. All applicants have the right to petition and appeal the department's admission decision. Applications are considered twice each academic year and are due on the second Friday of October and the second Friday of April, with the exception of Direct Freshman Admission. The application and additional information is available at depts.washington.edu/chem/undergrad/.

Direct Freshman Admission

1. Open to freshman students formally admitted to the UW.
2. Score of 5 on the AP chemistry examination.
3. Indication on the UW freshman application of biochemistry as the student's first choice of major.
4. Successful direct-admission applicants generally have received a minimum 1400 on the SAT (math and verbal sections), or minimum 30 on the ACT.
5. Admission is for autumn quarter only.

~~Early~~ Admission

1. Students with exceptional records can apply for consideration for early admission to the biochemistry major via the Honors or Research track. Students seeking early admission should submit an application that includes:
    a. Cover sheet (available on the Department of Chemistry Website)
    b. Unofficial transcript
    c. Statement of purpose. May include a description of interest in biochemistry, career goals, undergraduate research interests, degree interest (B.A. or B.S.), and any other information applicant believes is useful in evaluating the application.
    d. (Research Track only) Written letter or recommendation from research adviser.
2. Honors Track. Students participating in the chemistry Honors sequence who have completed the following courses with a minimum cumulative GPA of 3.00: CHEM 145, CHEM 155 (10 credits); MATH 124 and MATH 125, or MATH 134 and MATH 135 (10 credits).
3. Research Track. Students who have performed at least 6 credits of undergraduate research (CHEM 199, CHEM 299 or higher) and who provide a strong recommendation from faculty research adviser. Chemistry undergraduate research may be considered as well.

~~First-Year~~ Admission

1. Course requirements: CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM 145, CHEM 155, CHEM 165) (15 credits). BIOL 180 (5 credits); MATH 124, MATH 125 (or MATH 134, MATH 135) (10 credits).
2. Factors included in the admission decision include academic performance as measured by GPA in courses required for application, difficulty of other courses completed, frequency of incompletes or withdrawal grades, number of repeated courses, relevant work and life experience, and record of honors.
3. Successful applicants for the B.S. biochemistry program typically have a cumulative GPA greater than 3.20 in courses listed above under course requirements. Successful applicants for the B.A. biochemistry program typically have a cumulative GPA greater than 3.00 in courses listed above under course requirements.

Regular Admission

1. Course requirements: CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM145, CHEM 155, CHEM 165) (15 credits). CHEM 237, CHEM 238 (or CHEM 335, CHEM 336) (8 credits). BIOL 180, BIOL 200 (10 credits). MATH 124, MATH 125 (or MATH 134, MATH 135) (10 credits).
2. Factors in the admission decision include academic performance as measured by GPA in courses required for application, difficulty of other courses completed, frequency of incompletes or withdrawal grades, number of repeated courses, relevant work and life experience, and record of honors.

3. Successful applicants for the B.S. biochemistry program typically have a cumulative GPA greater than 2.50 in courses listed above under course requirements, with no individual course grade lower than a 2.0. Successful applicants for the B.A. biochemistry program typically have a cumulative GPA greater than 2.00 in courses listed above under course requirements, with no individual grade below a 1.7.

Continuation Policy

Students enrolled in the degree programs in biochemistry must maintain both a cumulative GPA and individual course grades consistent with requirements for their degree. Students pursuing B.S. degrees must maintain a minimum cumulative GPA of 2.50 for courses required for the major, and minimum 2.0 grades for individual courses required for the major. Students pursuing B.A. degrees must maintain a minimum cumulative GPA of 2.00 for courses required for the major, and a minimum 1.7 for individual courses required for the major. Failure to maintain these GPA and grade standards results in the student being placed on academic probation for one quarter, and dropped from the major if marked improvement in academic performance is not achieved. Students who experience extraordinary circumstances may petition for one or more additional probationary quarters.

Major Requirements

~~107~~ credits, as follows:

1. *General Chemistry:* CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM 145, CHEM 155, CHEM 165)
2. *Organic Chemistry:* CHEM 237, CHEM 238, CHEM 239, CHEM 241, CHEM 242 (or CHEM 335, CHEM 336, CHEM 337, CHEM 346, CHEM 347)
3. *Physical Chemistry:* CHEM 452, CHEM 453 (or CHEM 455, CHEM 456, CHEM 457)
4. *Biochemistry:* BIOC 426, BIOC 440, BIOC 441, BIOC 442
5. *Biology:* BIOL 180, BIOL 200
6. *Mathematics:* MATH 124, MATH 125, MATH 126 (or MATH 134, MATH 135, MATH 136)
7. *Physics:* PHYS 121, PHYS 122, PHY 123 (or PHYS 114, PHYS 115, PHYS 116), with the PHYS 121 sequence recommended
8. *Genome Science:* GENOME 371
9. 11 credits chosen from a current department list (available in 303 Bagley or at depts.washington.edu/chem/undergrad/degreereqs.html) of upper-division science classes including math, biology, microbiology, chemistry, and genome sciences. Up to 9 credits of approved advanced-level undergraduate research may also be applied to this requirement. Research conducted outside chemistry or biochemistry must first be approved by a biochemistry adviser.
10. *Grade and Graduation Requirements:* A minimum grade of 2.0 and a minimum cumulative 2.50 GPA required for all chemistry, biology, and biochemistry courses

counted toward the major. Minimum 2.50 GPA required for the BIOC 440, BIOC 441, and BIOC 442 sequence. Minimum overall cumulative 2.50 GPA required for graduation.

Bachelor of Arts

90-92 credits as follows:

1. *General Chemistry:* either CHEM 142, CHEM 152, CHEM 162, (or CHEM 144, CHEM 154, CHEM 164; or CHEM 145, CHEM 155, CHEM 165)
2. *Organic Chemistry:* either CHEM 237, CHEM 238, CHEM 239, CHEM 241, CHEM 242, or CHEM 335, CHEM 336, CHEM 337, CHEM 346, CHEM 347
3. *Biochemistry:* BIOC 405, BIOC 406
4. *Physical Chemistry:* CHEM 452, CHEM 453
5. *Biology:* BIOL 180, BIOL 200
6. *Mathematics:* either MATH 124, MATH 125, MATH 126, or MATH 134, MATH 135, MATH 136
7. *Physics (12-15 credits):* either PHYS 121, PHYS 122, PHYS 123, or PHYS 114, PHYS 115, PHYS 116
8. *Science Electives:* 9 credits to be taken from a current department list available in 303 Bagley or at depts.washington.edu/chem/undergrad/degreereqs.html. Up to 3 credits of advanced undergraduate research may count toward this requirement. Research conducted outside chemistry or biochemistry must first be approved by a biochemistry adviser.
9. *Grade and Graduation Requirements:* Minimum grade of 1.7 in chemistry, biochemistry, and biology courses required for the major. Minimum cumulative 2.00 GPA required for graduation.

Student Outcomes and Opportunities

- *Learning Objectives and Expected Outcomes:* At the conclusion of their studies, graduating biochemistry majors should possess a general working knowledge of the basic areas of biochemistry; be proficient in basic laboratory skills; have the ability to carry out strategies for solving scientific problems; have an understanding of the principles and applications of modern instrumentation, computation, experimental design, and data analysis; have had the opportunity to gain experience with a research project; have the ability to communicate scientific information clearly and precisely; have the ability to read, understand, and use scientific literature; have an awareness of the broader implications of biochemical processes; have had the opportunity to work as part of a team to solve scientific problems; and have had an introduction to opportunities in, and requirements for, the careers available to biochemistry majors.
  Students planning a career in biomedical research, the health professions, or biotechnology find the biochemistry degree to be an excellent choice. The degree is also

good preparation for graduate school in any aspect of biochemical or biomedical research.

- *Instructional and Research Facilities:* Research facilities for the department are housed in the Biochemistry-Genetics Building, which provides approximately 52,000 square feet of research space, conference rooms, and a departmental library. In the immediate vicinity are the departments of Immunology, Genome Sciences, Microbiology, and Pharmacology, as well as programs in biomolecular structure, molecular medicine, neurobiology and molecular and cellular biology, with which the department has common research interests. Laboratories are equipped with modern research equipment and are supported by external, centralized research facilities. An emphasis on biomedical research is facilitated by the location of the department within the School of Medicine.
- *Honors Options Available:* College Honors (Completion of both Interdisciplinary Honors and Departmental Honors requirements). Departmental Honors (see adviser for requirements).
- *Research, Internships, and Service Learning:* No formal internship program. Students are encouraged to pursue national and regional internships. See adviser for more information.
- *Program Scholarships:* Resident tuition scholarships and book prizes are awarded annually by the Department of Chemistry to eligible chemistry and biochemistry majors. Applications are available during the month of March for the following academic year. See department adviser for more information.
- *Student Organizations/Associations:*
    - Alpha Chi Sigma: the UW affiliate of the national chemistry-related science organization for chemistry and biochemistry majors
    - Phi Lambda Upsilon: the UW affiliate of the national chemistry honorary society
    - The Free Radicals: a general undergraduate club for chemistry and biochemistry majors.

Of Special Note:

The Bachelor of Science in Biochemistry degree requires a minimum of ~~197~~ credits.

Students are strongly encouraged to participate in undergraduate research.

Proposed Catalog Copy: Biochemistry

Undergraduate Program

Adviser
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206-616-9880, 206-543-9343, 206-685-8376
advisers@chem.washington.edu

The Biochemistry Program offers the following programs of study:

- The Bachelor of Science degree with a major in biochemistry (requires 195 credits)
- The Bachelor of Arts degree with a major in biochemistry

Bachelor of Science

Suggested First- and Second-Year Courses: BIOL 180, BIOL 200 (or BIOL 201, BIOL 202); CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM 145, CHEM 155, CHEM 165), CHEM 237, CHEM 238, CHEM 239, CHEM 241, CHEM 242; MATH 124, MATH 125, MATH 126; PHYS 121, PHYS 122, PHYS 123 (or PHYS 114, PHYS 115, PHYS 116 with one physics lab course strongly recommended).

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3. Research Track. Students who have performed at least 6 credits of undergraduate research (CHEM 199, CHEM 299 or higher) and who provide a strong recommendation from faculty research adviser. Chemistry undergraduate research may be considered as well.

Early Admission

1. Course requirements: CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM 145, CHEM 155, CHEM 165) (15 credits). BIOL 180 (5 credits); MATH 124, MATH 125 (or MATH 134, MATH 135) (10 credits).
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Regular Admission

1. Course requirements: CHEM 142, CHEM 152, CHEM 162 (or CHEM 144, CHEM 154, CHEM 164; or CHEM145, CHEM 155, CHEM 165) (15 credits). CHEM 237, CHEM 238 (or CHEM 335, CHEM 336) (8 credits). BIOL 180, BIOL 200 (10 credits). MATH 124, MATH 125 (or MATH 134, MATH 135) (10 credits).
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Major Requirements

105 credits, as follows:

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2. *Organic Chemistry:* CHEM 237, CHEM 238, CHEM 239, CHEM 241, CHEM 242 (or CHEM 335, CHEM 336, CHEM 337, CHEM 346, CHEM 347)
3. *Physical Chemistry:* CHEM 452, CHEM 453 (or CHEM 455, CHEM 456, CHEM 457)
4. *Biochemistry:* BIOC 426, BIOC 440, BIOC 441, BIOC 442
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8. *Genome Science:* GENOME 361 or GENOME 371
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Bachelor of Arts

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