



UNIVERSITY of WASHINGTON

Michael K. Young
President

November 27, 2013

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

Dear Bob:

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

I am writing to inform you that the Department of Biology is authorized to specify these requirements beginning winter quarter 2014.

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,

A handwritten signature in black ink, appearing to read "Michael K. Young".

Michael K. Young
President

Enclosure

cc: Ms. Eileen O'Connor (with enclosure)
Mr. Robert Corbett (with enclosure)
Ms. Virjean Edwards (with enclosure)



UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE
ACADEMIC PROGRAMS

NOV 07 2013

OFFICE USE ONLY

Control #

2101-20131009

After college/school/campus review, send a signed original and 8 copies 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 Biology

Date 10/9/2013

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 BIOLOGY within the Bachelor of Science, and Bachelor of Arts.
- ☐ 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: 20 14

Contact Person: Eileen O'Connor

Phone: 3-9621

Email: eoc@uw.edu

Box: 355320

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).

Add another option to the Math requirement so it is easier for students to get the necessary coursework.
Change Mathematics requirement from:

Mathematics (choose one option): (10 credits)

1. MATH 124, 125 (5,5) Calculus with Analytic Geometry

2. QSCI 291, 292 (5,5) Calculus for Biologists (May not be used for the Bio Chem 440 Series)

3a. QSCI 381, 482 (5,5) Or Quantitative Statistical Reasoning

3b. STATS/QSCI 311, 482 (5,5) Or Introductory Statistics and Quantitative Statistical Reasoning

3c. BIOST/QSCI 310, 482 (4,5) Biostatistics and Quantitative Statistical Reasoning

To:

Mathematics (choose one option): (10 credits)

1. MATH 124, 125 (5,5) Calculus with Analytic Geometry

2. QSCI 291, 292 (5,5) Calculus for Biologists (May not be used for the Bio Chem 440 Series)

3a. QSCI 381, 482 (5,5) Or Quantitative Statistical Reasoning

3b. STATS/QSCI 311, 482 (5,5) Or Introductory Statistics and Quantitative Statistical Reasoning

3c. BIOST/QSCI 310, 482 (4,5) Biostatistics and Quantitative Statistical Reasoning

4. Combine 1 Stats and 1 Calculus class Calculus and Statistics

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:
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.

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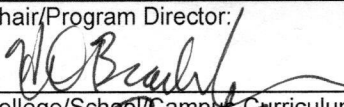
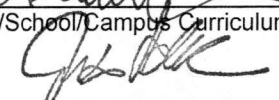
PROPOSED CATALOG COPY

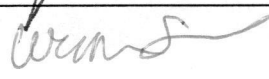
Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. Please underline or otherwise highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in department publications).
Please note: all copy will be edited to reflect uniform style in the General Catalog.

c. Two quarters of mathematics (calculus or statistics): either MATH 124 and MATH 125, or ~~MATH 144~~ and ~~MATH 145~~, Q SCI 291 and Q SCI 292, or BIOST 310, Q SCI 381 (or STAT 311) and Q SCI 482 ,or either MATH 124 or QSCI 291 AND either BIOST 310 or QSCI 381 or STAT 311.


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APPROVALS

Chair/Program Director: 	Date: 9 OCT 2013
College/School/Campus Curriculum Committee: 	Date: 11/6/2013

 (b2 pg)

11/6/2013

Dean/Vice Chancellor:	Date:
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date:
POST TRI-CAMPUS APPROVAL (when needed)	
	Date: 22 Nov 2013

Current:

Major Requirements

90 credits as follows:

1. For all options the following basic coursework is required:
 - a. A one-year sequence of introductory biology for majors (BIOL 180, BIOL 200, BIOL 220)
 - b. Three to six quarters of chemistry, covering general and organic chemistry: CHEM 120, CHEM 220, and CHEM 221; or CHEM 142, CHEM 152, CHEM 223, and CHEM 224; or CHEM 142, CHEM 152, CHEM 162* and CHEM 237, CHEM 238, and CHEM 239
 - c. Two quarters of mathematics (calculus or statistics): ~~either MATH 124 and MATH 125, or MATH 144 and MATH 145, Q SCI 291 and Q SCI 292, or BIOST 310, Q SCI 381 (or STAT 311) and Q SCI 482~~
 - d. Two quarters of physics: PHYS 114 and PHYS 115, or PHYS 121 and PHYS 122
 - e. GENOME 371
 - f. Natural history/biodiversity: one course selected from approved list (3 credits)
 - g. *Option Requirement:* 300- and 400-level courses selected from lists specific to each option. See department website for additional information. (34 credits)

*CHEM 162 is not required for this degree; however, CHEM 237, CHEM 238, and CHEM 239 are required by many professional programs and graduate schools, and that sequence does require CHEM 162.

2. Additional Degree Requirements:

- a. Minimum 2.00 cumulative GPA for all UW courses applied toward major requirements, including required supporting courses (chemistry, physics, mathematics), introductory biology, and upper-division coursework. (A grade of 2.0 is not required in individual courses.)
- b. Minimum 15 credits of 400-level biology electives taken at the UW.
- c. Two 300- or 400-level laboratory courses

Because of the differing specific requirements and choices for each option, it is extremely important for students to work closely with the Biology departmental advisers to insure completion of these 22-25 credits.

Proposed:

Major Requirements

90 credits as follows:

1. For all options the following basic coursework is required:
 - a. A one-year sequence of introductory biology for majors (BIOL 180, BIOL 200, BIOL 220)
 - b. Three to six quarters of chemistry, covering general and organic chemistry: CHEM 120, CHEM 220, and CHEM 221; or CHEM 142, CHEM 152, CHEM 223, and CHEM 224; or CHEM 142, CHEM 152, CHEM 162* and CHEM 237, CHEM 238, and CHEM 239
 - c. One of the following two quarter sequences of mathematics (calculus/statistics):
 - i. MATH 124 and MATH 125
 - ii. Q SCI 291 and Q SCI 292
 - iii. either BIOST 310, Q SCI 381, or STAT 311 and Q SCI 482
 - iv. one approved calculus class and one approved statistics class, see advisor for approved lists.
 - d. Two quarters of physics: PHYS 114 and PHYS 115, or PHYS 121 and PHYS 122
 - e. GENOME 371
 - f. Natural history/biodiversity: one course selected from approved list (3 credits)
 - g. *Option Requirement*: 300- and 400-level courses selected from lists specific to each option. See department website for additional information. (34 credits)

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Because of the differing specific requirements and choices for each option, it is extremely important for students to work closely with the Biology departmental advisers to insure completion of these 22-25 credits.

Janet YALE

From: Eileen O'Connor <eoc@u.washington.edu>
Sent: Wednesday, November 06, 2013 3:25 PM
To: Janet YALE; Eileen O'Connor
Cc: Kevin K. Mihata
Subject: Re: Program Change (1503) for Biology Majors

Hi Janet - yes, they both have the same requirements for math - sorry - thanks -e

----- Original Message -----

From: Janet YALE
To: Eileen O'Connor
Cc: Kevin K. Mihata
Sent: Wednesday, November 06, 2013 2:57 PM
Subject: Program Change (1503) for Biology Majors

Hi Eileen – the A&S Curriculum Committee met this morning and approved the program change for majors in Biology -- adding another option to the Math requirement so it is easier for students to get the coursework they need. Will this apply to Biology majors within the Bachelor of Arts as well as Bachelor of Science?