



OFFICE OF THE PRESIDENT

April 13, 2012

Dean Lisa J. Graumlich  
College of the Environment  
Box 355679

Dear Lisa:

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 the minor in Quantitative Science. A copy of the change is attached.

I am writing to inform you that the Center for Quantitative Science is authorized to specify these requirements beginning autumn 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,

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

Michael K. Young  
President

Enclosure

cc: Dr. Frank Greulich (with enclosure)  
Ms. Michelle Hall (with enclosure)  
Mr. Robert Corbett (with enclosure)  
Dr. Deborah H. Wiegand (with enclosure)  
Ms. Virjean Edwards (with enclosure QSCI-20120212)



UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE  
ACADEMIC PROGRAMS

1 copy

After college/school/campus review, send a signed original and 3 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 College of the Environment Department/Unit Center for Quantitative Sci Date 2/12/12

## 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 \_\_\_\_\_ within the Bachelor of \_\_\_\_\_.
- ☐ Revised Requirements for the Option in \_\_\_\_\_ within the major in \_\_\_\_\_.
- ☒ Revised Requirements for the Minor in Quantitative Science

## 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 12

Contact Person: Frank Greulich

Phone: 3-1464

Email: greulich@uw.edu

Box: 352100

## 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).

Making Q Sci 483 or Q Sci 403/STAT 403 part of the core will round out and strengthen the statistical component of the minor by adding a regression analysis component that goes beyond the introduction offered in Q Sci 381. Q Sci 483 is the second in a series of two applied statistics courses that students minoring in Q SCI should take as part of their core studies. It covers basic statistical methods not covered in 482.

The reason that the knowledge of regression requirement has been added is that statistics at this level may be partitioned into two principle areas of endeavor: hypothesis testing and regression. The fact that while these are separate methodologies, they are also integrated with each other. The hypothesis testing is covered in the requirement of Q Sci 482. The regression is covered in the Q Sci 483. The course, Q Sci 403, while not strictly about regression, will use it and it will be covered in the class' lab section. We believe that with this change our minors will be able to competently carry out the types of analyses expected of them.

## 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.

Minor Requirements: A minimum of 26 credits, as follows:

1. Core courses (20 credits): Q SCI 291, Q SCI 292 (or MATH 124, MATH 125); Q SCI 381, Q SCI 482
2. Electives (6-10 credits): Two Q SCI courses at the 300 or 400 level to include one course from Q SCI 480, Q SCI 483, Q SCI 486
3. A minimum grade of 2.0 is required in each course taken as part of the minor.

**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.

Minor requirements: A minimum of 27 credit hours, as follows:

1. Core courses (24-25 credits): Q SCI 291, 292 (or MATH 124, 125); Q SCI 381; Q SCI 482; Q SCI 483 (or Q SCI 403/STAT 403).
2. Electives <sup>(3-5 credits):</sup> ~~(one or more courses)~~ <sup>of electives</sup> from an approved list giving a total of at least 27 credit hours; ~~Q~~  
 A partial approved list includes:  
 Q Sci 210/Envir 210  
 Q Sci 403/Stat 403 (if not taken as part of the core courses above)  
 Q Sci/Fish 454  
 Q Sci 480/Stat 480  
 Q Sci 483 (if not taken as part of the core courses above)  
 Q Sci 486/Stat 486

Additional courses may qualify at the discretion of the CQS Director.

3. A minimum grade of 2.0 is required in all courses taken as part of the minor.

**APPROVALS**

Chair/Program Director:

Date:

2-13-12

College/School/Campus Curriculum Committee:

Date:

3/5/12

Dean/Vice Chancellor:

Date:

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

Date:

MAR. 30, 2012

**POST TRI-CAMPUS APPROVAL (when needed)**

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

Date: