

May 17, 2012

Interim 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 admission requirements for the Bachelor of Science degree in Statistics and revised program requirements for the minor in Statistics. A copy of the changes is attached.

I am writing to inform you that the Department of Statistics 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,



Michael K. Young  
President

Enclosure

cc: Dr. Galen Shorack (with enclosure)  
Ms. Mee-Ling Hon (with enclosure)  
Mr. Robert Corbett (with enclosure)  
Dr. Deborah H. Wiegand (with enclosure)  
Ms. Virjean Edwards (with enclosure STAT-20120322)



UNIVERSITY OF WASHINGTON  
**CREATING AND CHANGING UNDERGRADUATE  
 ACADEMIC PROGRAMS**

✓ 3-27-2012 JJS

OFFICE USE ONLY  
 Control # APR 19 2012

STAT-20120322

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 & Sciences Department/Unit STATISTICS Date 3/22/12

**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 Statistics within the Bachelor of Science.
- 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 Statistics.

**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: Galen Shorack Phone: 543-1182 Email: galen@stat.washington.edu Box: 354322

**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).

Statistics last changed the Bachelor of Statistics degree admission requirements in Summer quarter of 2010. At that time we introduced STAT 340 and STAT 340, 341, 342 became our primary junior year theory course in Statistics. (Based on this, the senior year is devoted primarily to the applied statistics courses 423 and 425 and (typically) three elective statistics courses. The change above was our essential change.

We also lowered our admission GPA requirement from 2.8 to 2.5 (partly by error, and partly in accord with a rather general push from the College of Arts and Sciences). This has had an unfortunate effect. The number of Statistics Majors shot up from 39 in Spring of 2010 to a current 82 for Winter quarter of 2012. This is threatening to swamp our STAT 340 sequence and do significant harm to the quality of the Statistics Major. Further, the lab demand for STAT 302 has now exceeded the computer lab capacity. The change also increased the difficulty that statistics Majors have in gaining entry into their Mathematics courses in a timely fashion. Even in Autumn 2012 we will have to institute some sort of screening in STAT 340 just to survive the year. We fear that the only alternative solution will be to turn the Bachelor of Statistics degree into one that has a competitive admission procedure—which we wish to avoid. For these reasons we request to change the admission GPA requirement back to the 2.8 requirement that worked well.

The change relative to the minor is trivial. It simply gives the students the option of using STAT394 and STAT 395 in place of STAT 340.

**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.



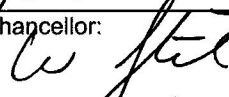
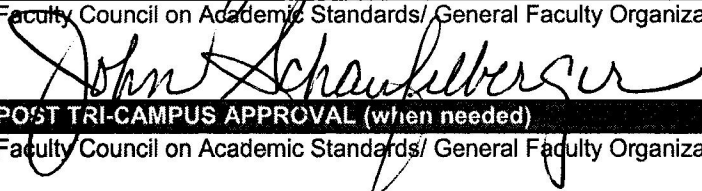
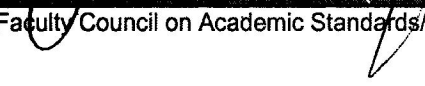
See attachment 1.

**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 attachment 2.

**APPROVALS**

Chair/Program Director:		Date:	3/22/2012
College/School/Campus Curriculum Committee:		Date:	4/16/2012
Dean/Vice Chancellor:		Date:	4/16/2012
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:		Date:	MAY 11, 2012
<b>POST TRI-CAMPUS APPROVAL (when needed)</b>			
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:		Date:	

## **Current:**

### **Bachelor of Science**

*Suggested First-and Second-Year College Courses:* CSE 142; MATH 300, MATH 307, MATH 308, MATH 327, MATH 328, STAT 302, STAT 311. Additional courses in the sciences and quantitative methods add strength to this major. Declaration of the statistics major is required to obtain priority status in registration for STAT 340 and STAT 341.

#### **Department Admission Requirements**

1. Completion of 45 credits.
2. *Mathematics:* MATH 124, MATH 125, MATH 126
3. *Statistics:* One of STAT 311 (highly recommended), STAT 390, or an approved substitute (STAT 220, STAT 221, or STAT 301), which is seldom allowed
4. Two additional courses from the following: CSE 142, MATH 300, MATH 307, MATH 308, MATH 327, MATH 328. Recommended: MATH 300, MATH 327
5. Students must have a plan for meeting the College of Arts and Sciences requirement of 20 credits in the Natural World Area of Knowledge as defined in the UW General Catalog.
6. *GPA:* Minimum grade of 2.0 in each course used for the requirements listed above and a cumulative GPA of 2.50 for these courses.
7. Students wishing to declare a statistics major must apply by contacting the adviser after prerequisites are completed and graded.

#### **Major Requirements**

Minimum 70 credits, as follows:

1. *Mathematics (30 credits):* either MATH 124, MATH 125, MATH 126, MATH 300, MATH 307, MATH 308, MATH 327, and MATH 328; or the Honors sequence MATH 134, MATH 135, MATH 136, MATH 334, MATH 335, and MATH 336.
2. *Computing (6-9 credits):* CSE 142; either STAT 302 (recommended), CSE 143, or an approved substitute
3. *Statistics (24-25 credits):* STAT 311 (highly recommended), STAT 390, or an approved substitute (STAT 220, STAT 221, or STAT 301), which is seldom allowed; either STAT 340 (highly recommended) or both STAT 394/MATH 394 and STAT 395/MATH 395. (Note that both STAT 394/MATH 394 and STAT 395/MATH 395 are required to replace STAT 340 as a prerequisite for STAT 341.) STAT 341, STAT 342, STAT 421, STAT 423. (Note that STAT 342 is required for enrollment in STAT 421 or STAT 423 by a statistics major; STAT 390 is not sufficient for a statistics major.)

4. *Electives*: At least three courses for a total of at least 9 credits. All elective choices require prior approval by the statistics undergraduate adviser.
5. Minimum grade of 2.0 in all courses used to satisfy major requirements.
6. Minimum cumulative GPA of 2.50 for all courses used to satisfy major requirements.

A "Majors Factsheet" is available from the Statistics Department.

## **Minor**

*Minor Requirements*: 30 credits, as follows:

1. MATH 126 or MATH 136
2. STAT 311 or approved substitute
3. ~~STAT 340~~, STAT 341, STAT 342; ether STAT 421 or STAT 423
4. One elective from the following choices: STAT 302, STAT 403, STAT 423, STAT 427, STAT 428, CSE 142, MATH 307, MATH 308, AMATH 351, AMATH 353, or an adviser-approved substitute
5. Minimum grade of 2.0 in each course used to satisfy minor requirements

## Revised Proposed:

### Bachelor of Science

*Suggested First-and Second-Year College Courses:* CSE 142; MATH 300, MATH 307, MATH 308, MATH 327, MATH 328, STAT 302, STAT 311. Additional courses in the sciences and quantitative methods add strength to this major. Declaration of the statistics major is required to obtain priority status in registration for STAT 340 and STAT 341.

#### **Department Admission Requirements**

1. Completion of 45 credits.
2. *Mathematics:* MATH 124, MATH 125, MATH 126
3. *Statistics:* One of STAT 311 (highly recommended), STAT 390, or an approved substitute (STAT 220, STAT 221, or STAT 301), which is seldom allowed
4. Two additional courses from the following: CSE 142, MATH 300, MATH 307, MATH 308, MATH 327, MATH 328. Recommended: MATH 300, MATH 327
5. Students must have a plan for meeting the College of Arts and Sciences requirement of 20 credits in the Natural World Area of Knowledge as defined in the UW General Catalog.
6. *GPA:* Minimum grade of 2.0 in each course used for the requirements listed above and a cumulative GPA of 2.8 for these courses.
7. Students wishing to declare a statistics major must apply by contacting the adviser after prerequisites are completed and graded.

#### **Major Requirements**

Minimum 70 credits, as follows:

1. *Mathematics (30 credits):* either MATH 124, MATH 125, MATH 126, MATH 300, MATH 307, MATH 308, MATH 327, and MATH 328; or the Honors sequence MATH 134, MATH 135, MATH 136, MATH 334, MATH 335, and MATH 336.
2. *Computing (6-9 credits):* CSE 142; either STAT 302 (recommended), CSE 143, or an approved substitute
3. *Statistics (24-25 credits):* STAT 311 (highly recommended), STAT 390, or an approved substitute (STAT 220, STAT 221, or STAT 301), which is seldom allowed; either STAT 340 (highly recommended) or both STAT 394/MATH 394 and STAT 395/MATH 395. (Note that both STAT 394/MATH 394 and STAT 395/MATH 395 are required to replace STAT 340 as a prerequisite for STAT 341.) STAT 341, STAT 342, STAT 421, STAT 423. (Note that STAT 342 is required for enrollment in STAT 421 or STAT 423 by a statistics major; STAT 390 is not sufficient for a statistics major.)

4. *Electives*: At least three courses for a total of at least 9 credits. All elective choices require prior approval by the statistics undergraduate adviser.
5. Minimum grade of 2.0 in all courses used to satisfy major requirements.
6. Minimum cumulative GPA of 2.50 for all courses used to satisfy major requirements.

A "Majors Factsheet" is available from the Statistics Department.

## **Minor**

*Minor Requirements*: 30 credits, as follows:

1. MATH 126 or MATH 136
2. STAT 311 or approved substitute
3. Both STAT/MATH 394 and STAT/MATH 395 OR STAT 340 , STAT 341, STAT 342;  
either STAT 421 or STAT 423
4. One elective from the following choices: STAT 302, STAT 403, STAT 423, STAT 427, STAT 428, CSE 142, MATH 307, MATH 308, AMATH 351, AMATH 353, or an adviser-approved substitute
5. Minimum grade of 2.0 in each course used to satisfy minor requirements