UNIVERSITY OF WASHINGTON

OFFICE OF THE PRESIDENT

December 9, 2011

Dean Howard Frumkin
School of Public Health
Box 357230

Dear Howie:

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 Bachelor of Science degree in Environmental Health. A copy of the change is attached.

I am writing to inform you that the School of Public Health is authorized to specify these requirements beginning winter 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. Susan Inman (with enclosure)
Mr. Robert Corbett (with enclosure)
Dr. Deborah H. Wiegand (with enclosure)
Ms. Virjean Edwards (with enclosure ENVH-20110901)

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Control # ENVH-20110901

UNIVERSITY OF WASHINGTON
# CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

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** Seattle | **Department/Unit** DEOHS | **Date** 9/1/2011 |
|---|---|---|

## New Programs

- ☐ Leading to a Bachelor of _____ in _____ degree.
- ☐ Leading to a Bachelor of _____ degree with a major in _____.
- ☒ ~~Leading to a~~ Honors ~~Option within the existing major in~~ Environmental Health.
- ☐ 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 Environmental Health 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:** 20 12

| Contact Person: Susan Inman | Phone: 616-4177 | Email: susani@uw.edu | Box: 357234 |
|---|---|---|---|

## 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*).

Departmental Honors in Environmental Health will allow select students the opportunity to explore the field in greater depth. Honors students benefit from the academic challenge associated with more rigorous study. The program requirements are flexible, challenging students to explore environmental health topics and design and execute their own research. Departmental Honors can be completed in conjunction with Interdisciplinary Honors (to graduate "with College Honors in Environmental Health"), or alone (to graduate "with Honors in Environmental Health").

See attached for program requirements.

## 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: |
|---|---|---|
| Univ. Honors Program | | 8 Nov 2011 |
| 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.

Honors Options Available: For Interdisciplinary Honors, see University Honors Program.

## 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.

Honors Options Available: Departmental Honors in Environmental Health will allow select students the opportunity to explore the field in greater depth and design and execute their own research. Departmental Honors can be completed in conjunction with Interdisciplinary Honors (to graduate "with College Honors in Environmental Health"), or alone (to graduate "with Honors in Environmental Health").

## APPROVALS

| | |
|---|---|
| Chair/Program Director: | Date: 10/12/11 |
| College/School/Campus Curriculum Committee: | Date: 10/19/11 |
| Dean/Vice Chancellor: Fred Connell (ALH) | Date: 10/21/11 |
| Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair: | Date: |

## POST TRI-CAMPUS APPROVAL (when needed)

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

**Environmental Health**
***Departmental Honors Proposal***

***Entry requirements***

To pursue departmental honors, students must have earned a cumulative GPA of 3.5 or higher in general chemistry, organic chemistry, and general biology.

Students must declare their intention to pursue departmental honors to the program manager as soon as possible but no later than three quarters before intended graduation.

***Continuation requirements***

Honors students are required to maintain a cumulative UW GPA of 3.5 or higher, and a department (ENV H) GPA of 3.5 or higher.

***Course requirements***

Honors students complete at least 10-15 credits, selected from the following:

### ENV H 311 Intro to Environmental Health (3)

This course is a survey course intended to give students a basic understanding of how environmental factors impact the health of people and the community, and of the efforts made to prevent or minimize the effects of negative impacts. The course is designed to acquaint the student with the scientific and technical foundations of the field, and examines both the practice of environmental health and the problems which are addressed by the practitioners in this career discipline. Emphasis is on providing a general understanding of how environmental factors are involved in the transmission of communicable diseases and on some of the health hazards resulting from exposure to chemical and physical materials in our environment.

Honors assignment: An additional term paper focused on one environmental health program area that is receiving attention in the news media at the time. For example, the continuing controversy over global climate could be examined, looking both at the scientific evidence, and the likely public health implications for the Puget Sound region.

### ENV H 405 Toxic Chemicals & Human Health (3)

Basic principles governing the behavior and effects of toxic chemicals on biological systems, including: toxicity testing; the disposition of chemicals in the body; modifiers of toxic response; fate and effects of chemicals in the environment; chemicals and cancer; chemicals and birth defects; toxicity risk assessment and government regulation of chemical hazards in the home, the workplace and the general environment. Focus is on human health impacts of chemicals as it relates to public health.

Honors assignment: The student has a choice to complete a term paper on a toxicant of interest or field work and project with toxicologist in order to apply theory to practice.

### ENV H 431 Sampling & Analysis I (3)

This course presents basic principles of environmental sampling and analysis to prevent or reduce public health hazards. We will examine sampling and analytical methods used to measure contaminants in the workplace and community environments. Topics include regulatory mandates, sampling design, sampling strategies, exposure pathways and routes, quality assurance procedures applied to air, water and soil samples. The course will be of use to environmental scientists and engineers, public health professionals, and others interested in the field of environmental health sciences.

Honors assignment: Write a research paper on a topical aspect of environmental sampling and analysis.

### ENV H 472 Environmental Risk & Society (3)

This course examines the development and uses of environmental risk analysis, particularly in regard to public health concerns. Environmental risk analysis is practiced within a context of social and cultural values, leading to differing perceptions, rankings of risks, and challenges in effective risk communication. Risk assessment and risk management procedures will be examined in light of several themes, including the relationship between natural and technological hazards, the long-term consequences of environmental contamination, public participation processes, and movements towards environmental equity. Specific topics include pesticides, dioxins, Mad Cow disease, and nuclear power.

Honors assignment: A class presentation based upon a risk assessment of their choice.

**ENV H 499 Undergraduate Research (variable, minimum of 3 for one quarter)**
Individual research on a specific topic in environmental health upon which specific conclusions, judgments, or evaluation can be made or upon which facts can be presented.

Students may also elect to ad-hoc an ENV H courses. They are expected to pursue the course matter to a greater depth and with more intensity than he/she would within the framework of the regular class. The student is prepared to work with the instructor to add extra work and expend the extra energy to do so.

***Research/Thesis requirements***

At the conclusion of directed research, ENV H 499 - Undergraduate Research, or the required internship, ENV H 482 - Environmental Health Internship, the student will write a thesis and give a poster or oral presentation in a public forum.

- The thesis should be a well-written, clearly presented document, typically 15 to 25 pages in length.
- The written work should be done independently by the student under the supervision of a faculty member.
- The work should be original and demonstrate critical thinking, as judged by the faculty supervisor.
- An approved copy of the thesis, with the faculty supervisor's signature on the cover page, must be submitted to the Undergraduate Program Manager & Academic Adviser.
- The poster or oral presentation may include the undergraduate spring research symposium, the summer program research symposium, a professional conference approved by the faculty research supervisor, a departmentally sponsored research colloquium, or other opportunities as approved by the department.