



UNIVERSITY of WASHINGTON

Michael K. Young
President

April 8, 2014

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 Bachelor of Science degree in Bioresource Science and Engineering. A copy of the change is attached.

I am writing to inform you that the School of Environmental and Forest Sciences authorized to specify these requirements beginning autumn 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 that reads "Michael K. Young".

Michael K. Young
President

Enclosure

cc: Ms. Michelle Trudeau (with enclosure)
Mr. Robert Corbett (with enclosure)
Ms. Virjean Edwards (with enclosure)



UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

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>

MAR 04 2014

OFFICE USE ONLY

Control #

BSE-20131204

College/Campus Environment / Seattle

Department/Unit Sch of Env & Forest Sciences

Date 4 December 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 Bioresource Science and Engineering 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 ____.
- ☐ Change delivery method or location of program.
- ☐ New or Revised Continuation Policy for ____.
- ☐ New Honors Requirements for ____.
- ☐ Eliminate program in ____.

Proposed Effective Date: **Quarter:** ☒ Autumn ☐ Winter ☐ Spring ☐ Summer **Year: 2014**

Contact Person: Michelle Trudeau

Phone: 6-1533

Email: michtru@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).

Following our recent ABET site visit and analysis of the BSE curriculum; the BSE faculty propose the following adjustments to the program requirements: dropping the Chemical Engineering course requirements and replacing them with two new core BSE courses; Applied Math 351 and 352 as alternatives to Math 307 and 308, adding AA 260 as a lower-division requirement; and increasing the engineering topics requirement from 8 credits to 12.

These changes will allow for greater incoming transfer student flexibility and time to degree, as well as refining the curricular focus to align with the current research in the BSE labs. The increase in engineering electives will also ensure our BSE students are well rounded engineers when they graduate.

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.

Bioresource Science and Engineering**1. General Education Requirements (101 credits)**

a. Written Communication (12 credits): 5 credits English composition (ENGL 131 preferred); HCDE 231 (3 credits).

(Additional 4 credits satisfied by BSE courses shown below.)

b. Natural World (NW) (64 credits): MATH 125, MATH 126, MATH 307, MATH 308; Q SCI 381 or IND E 315 or STAT 390. CHEM 152 (or CHEM 154), CHEM 162 (or CHEM 164); CHEM 237, CHEM 238; PHYS 121, PHYS 122, PHYS 123; 10 credits from the University NW list (outside the major).

c. Visual, Literary, & Performing Arts (VLPA) (10 credits), chosen from the University VLPA list.

d. Individuals & Societies (I&S) (20 credits): ECON 200; 10 credits chosen from the University I&S list (outside the major). (5 additional credits satisfied by required BSE courses.)

2. Major Requirements (74 credits)

a. ~~Chemical Engineering (17 credits): CHEM E 310, CHEM E 325, CHEM E 330, CHEM E 340.~~

b. Bioresource Science (49 credits): BSE 150, BSE 201, BSE 202, BSE 248, BSE 406, BSE 420, BSE 421, BSE 422, BSE 426, BSE 430, BSE 436, BSE 480, BSE 481, BSE 497. All required BSE courses must be completed with at least a 2.0 grade.

c. Engineering Electives (8 credits minimum): Taken from a list of approved engineering electives.

d. Business Option (additional 12 credits minimum): ESRM 320 (5), ESRM 321 (5), and one course from approved list.

3. Free Electives: To bring minimum total to 180 credits.

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.

Bioresource Science and Engineering**1. General Education Requirements (105 credits)**

a. Written Communication (12 credits): 5 credits English composition (ENGL 131 preferred); HCDE 231 (3 credits). (Additional 4 credits satisfied by BSE courses shown below.)

b. Natural World (NW) (68 credits): MATH 125, MATH 126, MATH 307 or AMATH 351, MATH 308 or AMATH 352; Q SCI 381 or IND E 315 or STAT 390. CHEM 152 (or CHEM 154), CHEM 162 (or CHEM 164); CHEM 237, CHEM 238; PHYS 121, PHYS 122, PHYS 123; A A 260; 10 credits from the University NW list (outside the major).

c. Visual, Literary, & Performing Arts (VLPA) (10 credits), chosen from the University VLPA list.

d. Individuals & Societies (I&S) (20 credits): ECON 200; 10 credits chosen from the University I&S list (outside the major). (5 additional credits satisfied by required BSE courses.)

2. Major Requirements (74 credits)

a. Bioresource Science (59 credits): BSE 150, BSE 201, BSE 202, BSE 248, BSE 391, BSE 392, BSE 406, BSE 420, BSE 421, BSE 422, BSE 426, BSE 430, BSE 436, BSE 480, BSE 481, BSE 497. All required BSE courses must be completed with at least a 2.0 grade.

b. Engineering Electives (15 credits minimum): Taken from a list of approved engineering electives.

c. Business Option (additional 12 credits minimum): ESRM 320 (5), ESRM 321 (5), and one course from approved list.

3. Free Electives: To bring minimum total to 180 credits.

APPROVALS

Chair/Program Director:

Date:

2/3/2014

College/School/Campus Curriculum Committee:

Date:

2/11/2014

Dean/Vice Chancellor:

Date:

2/25/14

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

Date:

4/4/14

POST TRI-CAMPUS APPROVAL (when needed)

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

Date:

Thanks Dave.

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Jennifer

Jennifer Payne, M.Ed.
University Curriculum Procedures Analyst
Office of the Registrar
University of Washington
<http://depts.washington.edu/registra/curriculum/>
Phone: 206-543-5938
Email: uwcr@uw.edu
Box: 355850

On Mon Mar 17 08:52:33 2014, rdd@uw.edu wrote:

>
>
> From: Bradley Holt [<mailto:bradholt@u.washington.edu>]
> Sent: Monday, March 17, 2014 8:50 AM
> To: Dave Drischell
> Subject: Re: Changes to BSE major
>
> Yes
>
> On Mar 17, 2014, at 8:40 AM, "Dave Drischell" <rdd@uw.edu> wrote:
> Approve?
>
> From: Jennifer A. Payne [<mailto:jap2@uw.edu>]
> Sent: Monday, March 17, 2014 8:30 AM
> To: Dave Drischell
> Subject: Changes to BSE major
>
> Dave,
>
> The Bioresource and Science and Engineering program is making changes
> to their major, including the removal of some CHEM E courses.
> There wasn't a CHEM E signature on the 1503 so SCAP wanted me to
> make sure that Chemical Engineering was aware and supported the
> changes.
>
> Can you please confirm?
>
> Jennifer
>
> *****
> Jennifer Payne, M.Ed.
> University Curriculum Procedures Analyst
> Office of the Registrar
> University of Washington
> <http://depts.washington.edu/registra/curriculum/>