

## UNIVERSITY of WASHINGTON

Michael K. Young President

June 11, 2013

Interim Dean Judith Ramey College of Engineering Box 352180

Dear Judy:

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 a Bachelor of Science in Chemical Engineering degree and the revised program requirements for the option in Nanoscience and Molecular Engineering within the Bachelor of Science in Chemical Engineering degree. A copy of the changes is attached.

I am writing to inform you that the College of Engineering is authorized to specify these requirements beginning autumn quarter 2013.

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

Mr. Dave Drischell (with enclosure) cc:

Mr. Robert Corbett (with enclosure)

Ms. Virjean Edwards (with enclosure)



# UNIVERSITY OF WASHINGTON CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

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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 Engr/S	Seattle	Department/Unit Chemical Engr	Date 5/17/13	
New Programs				
Leading to a Bachelor of in degree.				
Leading to a Bachelor ofdegree 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 CHEME within the Bachelor of Science.				
Revised Requirements for the Option in <u>NME</u> within the major in <u>CHEME</u> .				
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: 20 13				
Contact Person: Dave Drischell	Phone:	3-2252 Email: rdd@uw.edu	Box: 351750	
EXPLANATION OF AND RATIONAL				
For new program, please include letters of support and departmen	e any relevant supporti tal handouts. ( <i>Use ad</i> e	ng documentation such as student learning outcomes, pro ditional pages if necessary)	jected enrollments,	
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:				
	3.3 2.1100		Date.	
Department/Unit:	Chair/Program Direc			

CATALOG COPY	
Catalog Copy as currently written. Include only sections/paragraphs that would be changed if your request is ap out or otherwise highlight any deletions.	pproved. Please cross
See attached	
PROPOSED CATALOG COPY	
Reflecting requested changes (Include exact wording as you wish it to be shown in the printed catalog. Please highlight any additions. If needed, attach a separate, expanded version of the changes that might appear in dep	underline or otherwise
Please note: all copy will be edited to reflect uniform style in the General Catalog.	
See attached	
APPROVALS Chaip/Program Director 0	
K da a colon de la	Date:
College/Sched/Campus Curriculum Committee:	5/16/13
Colleger och earlies cum children comminge.	Date:
Crifully	5 21 13
Dean/Vice Chancellor:	Date:
See a Note	5/22/17
Faculty Council of Academic Standards/ General/Faculty Organization/Faculty Assembly Chair:	Date:
Level Chill	5/2//
POST TRI-CAMPUS APPROVAL (when needed)	1///
Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	Date:

## \_\_\_Catalog Copy as Currently Written:\_\_\_

### General Education Requirements (101 credits)

- 1. Written and Oral Communications (8 credits): one 5-credit English composition course from the University list; <u>HCDE 231</u>. Additional writing credits are built into the major core courses.
- 2. Visual, Literary, & Performing Arts (VLPA) and Individuals & Societies (I&S) (24 credits): A minimum of 10 credits required in each area
- 3. Natural World (65 credits)
  - a. Physics (15 credits): PHYS 121, PHYS 122, PHYS 123
  - b. Mathematics (24 credits): <u>MATH 124</u>, <u>MATH 125</u>, <u>MATH 126</u>, <u>MATH 307</u>, <u>MATH 308</u>, and <u>MATH 309</u> (or <u>MATH 390</u> or <u>IND E 315</u>)
  - c. Chemistry (26 credits): <u>CHEM 142, CHEM 152, CHEM 162, CHEM 237, CHEM 238, CHEM 455</u>

#### Major Requirements (74 credits)

- 1. Engineering Fundamentals (4 credits): AMATH 301 or CSE 142
- 2. Chemical Engineering Core Courses (51 credits): CHEM E 310, CHEM E 325, CHEM E 326, CHEM E 330, CHEM E 340, CHEM E 435, CHEM E 436, CHEM E 437, CHEM E 457, CHEM E 465, CHEM E 480, CHEM E 485, CHEM E 486
- 3. Molecular and Nanoscience Engineering (3 credits): CHEM E 455
- 4. Engineering Elective Courses (16 credits): Only one, 1-credit seminar is allowed to count toward engineering electives. A maximum of 9 credits of undergraduate research (CHEM E 299, CHEM E 499, of which no more than 3 credits may be CHEM 299) may count toward engineering electives.

## Unspecified Electives (5 credits)

## Nanoscience and Molecular Engineering Option Major Requirements (77 credits)

- 1. Engineering Fundamentals (4 credits): AMATH 301 or CSE 142
- 2. Chemical Engineering Core Courses (51 credits): CHEM E 310, CHEM E 325, CHEM E 326, CHEM E 330, CHEM E 340, CHEM E 435, CHEM E 436, CHEM E 437, CHEM E 457, CHEM E 465, CHEM E 480, CHEM E 485, CHEM E 486
- 3. Nanoscience and Molecular Engineering Courses (22 credits): CHEM E 299, CHEM E 455, CHEM E 499 (3-6 credits, maximum 3 credits from CHEM E 299), NME 220, NME 221, NME 321, NME 421; minimum two additional approved nanoscience and molecular engineering electives. See adviser for list of approved electives.

Unspecified Electives (2 credits)

## \_\_Proposed Catalog Copy\_\_\_

#### **General Education Requirements (97 credits)**

43 Note: the University-required 4 additional writing credits will be met by major core courses.

- 1. Written and Oral Communications (8 credits): one 5-credit English composition course from the University list; HCDE 231. Additional writing credits are built into the major-core courses.
- 2. Visual, Literary, & Performing Arts (VLPA) and Individuals & Societies (1&S) (24 credits): A minimum of 10 credits required in each area
- 3. Natural World (65 credits)
  - a. Physics (15 credits): PHYS 121, PHYS 122, PHYS 123
  - b. Mathematics (24 credits): <u>MATH 124</u>, <u>MATH 125</u>, <u>MATH 126</u>, <u>MATH 307</u>, <u>MATH 308</u>, and <u>MATH 309</u> (or <u>MATH 390</u> or <u>IND E 315</u>)
  - c. Chemistry (26 credits): <u>CHEM 142</u>, <u>CHEM 152</u>, <u>CHEM 162</u>, <u>CHEM 237</u>, <u>CHEM 238</u>, <u>CHEM 455</u>

#### Major Requirements (74 credits)

- 1. Engineering Fundamentals (4 credits): AMATH 301 or CSE 142
- 2. Chemical Engineering Core Courses (51 credits): <u>CHEM E 310</u>, <u>CHEM E 325</u>, <u>CHEM E 325</u>, <u>CHEM E 330</u>, <u>CHEM E 340</u>, <u>CHEM E 435</u>, <u>CHEM E 436</u>, <u>CHEM E 437</u>, <u>CHEM E 487</u>, <u>CHEM E 486</u>
- 3. Molecular and Nanoscience Engineering (3 credits): CHEM E 455
- 4. Engineering Elective Courses (16 credits): Only one, 1-credit seminar is allowed to count toward engineering electives. A maximum of 9 credits of undergraduate research (CHEM E 299, CHEM E 499, of which no more than 3 credits may be CHEM 299) may count toward engineering electives.

Unspecified Electives (9 credits)

## Nanoscience and Molecular Engineering Option Major Requirements (77 credits)

- 1. Engineering Fundamentals (4 credits): AMATH 301 or CSE 142
- 2. Chemical Engineering Core Courses (51 credits): CHEM E 310, CHEM E 325, CHEM E 326, CHEM E 330, CHEM E 340, CHEM E 435, CHEM E 436, CHEM E 437, CHEM E 457, CHEM E 465, CHEM E 480, CHEM E 485, CHEM E 486
- 3. Nanoscience and Molecular Engineering Courses (22 credits): CHEM E 299, CHEM E 455, CHEM E 499 (3-6 credits, maximum 3 credits from CHEM E 299), NME 220, NME 221, NME 321, NME 421; minimum two additional approved nanoscience and molecular engineering electives. See adviser for list of approved electives.

Unspecified Electives (6 credits)

**Under "Student Outcomes and Opportunities"** 

Bullet number 5, current catalog copy:

Department Scholarships: The department awards 20-25 full-tuition scholarships per year. Application deadline is April 1.

Bullet number 5, proposed catalog copy:

Department Scholarships: The department awards 20-25 full-tuition scholarships per year. See department website for application procedures.

#### Jennifer A. Payne

From: Sent:

Dave Drischell <rdd@uw.edu> Thursday, May 23, 2013 10:25 AM Jennifer A. Payne; K. Wetterhahn

To: Subject:

RE: Written and Oral Communications catalog copy

#### That's fine with CHEME

From: Jennifer A. Payne [mailto:jap2@uw.edu]
Sent: Thursday, May 23, 2013 10:21 AM

To: Dave Drischell; K. Wetterhahn

Subject: Written and Oral Communications catalog copy

Dave and Karen,

Asst. Registrar Tina Miller has asked me to let you know that to prevent issues with DARS and the written and oral communication requirements we need the catalog copy to say the following:

Written and Oral Communications: (8 credits): one 5-credit English Composition course from the University list; HCDE 231. Note: the University-required 4 additional writing credits will be met by major core courses.

#### Jennifer

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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: <u>uwcr@uw.edu</u>

Box: 355850