



UNIVERSITY OF WASHINGTON

OFFICE OF THE PRESIDENT

March 5, 2007

Mark A. Emmert, President

Dean Matthew O'Donnell
College of Engineering
Box 352180

Dear Matthew:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of the revised admissions and program requirements for a Bachelor of Science in Mechanical 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 2007.

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,

Mark A. Emmert
President

Enclosure

cc: John Kramlich (with enclosure)
Mr. Robert Corbett (with enclosure)
Dr. Deborah H. Wiegand (with enclosure)
Todd Mildon, J.D. (with enclosure ME-20070122)



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

OFFICE USE ONLY
 Control #
 ME-20070122

After college/school review, send a signed original and 8 copies to FCAS, Box 355850.

For information about when and how to use this form: <http://depts.washington.edu/uwcr/1503instructions.pdf>

College Engineering	Department or Unit Mechanical Engineering	Date 1/22/07
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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 Mechanical Engr within the Bachelor of Science in Mech Engr.
- Revised Program Requirements for the Major in Mechanical Engr within the Bachelor of Science in Mech Engr.
- 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 07

Contact Person John Kramlich	Contact's Phone 206 - 543 - 5090	Contact's Email metimes@u.washington.edu or kramlich@u.wa
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EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE

For new programs, please include any relevant supporting documentation such as student learning outcomes, projected enrollments, letters of support and departmental handouts. (Use additional pages if necessary).

The Department of Mechanical Engineering proposes to drop CSE 142 as an upper division requirement for admission and graduation requirement. AMATH 301 (4 credits) will satisfy the graduation requirement.

Justification to drop CSE 142 as a requirement for admission to the ME department.

- 1) Scientific computing (e.g. finding eigenvalues/eigenvectors, solving simultaneous linear equations, finding roots of polynomials, numerical integration, solution of ordinary and partial differential equations) is a critically important part of much of the material covered in ME 3XX and 4XX courses.
- 2) In order to solve the kinds of problems listed above, the student must be able to use modern scientific computational software tools (e.g. MATLAB, MATHEMATICA). Skilled application of these tools allows the student to perform realistic calculations that illustrate critical principles and it prepares the student to use these state-of-the-art tools in industry or academia after leaving the program.
- 3) The programming language "JAVA" currently taught in CSE 142 does not have the scientific computing component that is needed to solve the numerical problems listed above.

CATALOG COPY

Catalogue 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

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)

see attachment

SIGNATURES (required)

Chair/Program Director <i>John Kuhl</i>	Date 1-22-2007
Dean <i>W. D. Proctor</i>	Date 2-9-07
College Committee <i>Bobby B. Hill</i>	Date 2/7/07
Faculty Council on Academic Standards <i>George Wilton</i>	Date 3/2/07

UoW 1503 (12/05) REVERSE



Catalog Copy

Catalogue 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.)

Regular Admission

1. Course requirements: MATH 124, MATH 125, MATH 126, MATH 307; PHYS 121, PHYS 122; CHEM 142, CHEM 152; ~~CSE 142~~; A A 210; CEE 220; M E 230; T C 231; 5 credits of English composition.
2. 65 credits completed by July 1 application deadline.
3. Grade requirements: Minimum 2.0 grade in each course required for admission and minimum 2.50 cumulative GPA for all courses required for admission.

Graduation Requirements

180 credits as follows:

General Education Requirements (85 credits)

1. Written and Oral Communications: 12 credits, to include one 5-credit English composition course from the University list; T C 231; T C 333 (or department-approved alternative).
2. Visual, Literary, and Performing Arts (VLPA), and Individuals & Society (I&S) (24 credits): A minimum of 10 credits is required in each area.
3. Natural World (49 credits):
 - a. Mathematics (24 credits): MATH 124, MATH 125, MATH 126, MATH 307 (or AMATH 351), MATH 308 (or AMATH 352), MATH 309 (or AMATH 353)
 - b. Science (25 credits): CHEM 142, CHEM 152; PHYS 121, PHYS 122, PHYS 123

Major Requirements (95 credits)

1. Engineering Fundamentals (31 credits): A A 210; CEE 220; CSE 142; E E 215; IND E 315 (or MATH 390); M E 123; M E 230; MSE 170
2. Mechanical Engineering Core Courses (45 credits): M E 323, M E 331, M E 333, M E 354, M E 355, M E 356, M E 373, M E 374, M E 395, M E 495
3. Mechanical Engineering Option Courses (19 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.)*

Upper Division Admission

1. Course requirements: MATH 124, MATH 125, MATH 126, MATH 307; PHYS 121, PHYS 122; CHEM 142, CHEM 152; ~~CSE-142~~; A A 210; CEE 220; M E 230; T C 231; 5 credits of English composition.
2. 65 credits completed by July 1 application deadline.
3. Grade requirements: Minimum 2.0 grade in each course required for admission and minimum 2.50 cumulative GPA for all courses required for admission.

Graduation Requirements

180 credits as follows:

General Education Requirements (85 credits)

1. Written and Oral Communications: 12 credits, to include one 5-credit English composition course from the University list; T C 231; T C 333 (or department-approved alternative).
2. Visual, Literary, and Performing Arts (VLPA), and Individuals & Society (I&S) (24 credits): A minimum of 10 credits is required in each area.
3. Natural World (49 credits):
 - a. Mathematics (24 credits): MATH 124, MATH 125, MATH 126, MATH 307 (or AMATH 351), MATH 308 (or AMATH 352), MATH 309 (or AMATH 353)
 - b. Science (25 credits): CHEM 142, CHEM 152; PHYS 121, PHYS 122, PHYS 123

Major Requirements (95 credits)

1. Engineering Fundamentals (31 credits): A A 210; AMATH 301; CEE 220; ~~CSE-142~~;
2. E E 215; IND E 315 (or MATH 390); M E 123; M E 230; MSE 170
3. Mechanical Engineering Core Courses (45 credits): M E 323, M E 331, M E 333, M E 354, M E 355, M E 356, M E 373, M E 374, M E 395, M E 495
4. Mechanical Engineering Option Courses (19 credits)