



UNIVERSITY OF WASHINGTON

CREATING AND CHANGING UNDERGRADUATE  
ACADEMIC PROGRAMS

Pending COB Approval

AA - 2011 05 13

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>

<b>College/Campus</b> Seattle	<b>Department/Unit</b> Aeronautics and Astronaut	<b>Date</b> 5/13/11
<b>New Programs</b>		
<input type="checkbox"/> Leading to a Bachelor of _____ in _____ degree.		
<input type="checkbox"/> Leading to a Bachelor of _____ degree with a major in _____.		
<input type="checkbox"/> Leading to a _____ Option within the existing major in _____.		
<input type="checkbox"/> Leading to a minor in _____.		
<b>Changes to Existing Programs</b>		
<input type="checkbox"/> New Admission Requirements for the Major in _____ within the Bachelor of _____.		
<input checked="" type="checkbox"/> Revised Admission Requirements for the Major in <u>Aeronautics and Astronautics</u> within the Bachelor of <u>Science</u> .		
<input checked="" type="checkbox"/> Revised Program Requirements for the Major in <u>Aeronautics and Astronautics</u> within the Bachelor of <u>Science</u> .		
<input type="checkbox"/> Revised Requirements for the Option in _____ within the major in _____.		
<input type="checkbox"/> Revised Requirements for the Minor in _____.		
<b>Other Changes</b>		
<input type="checkbox"/> Change name of program from _____ to _____.		
<input type="checkbox"/> New or Revised Continuation Policy for _____.		
<input type="checkbox"/> Eliminate program in _____.		
Proposed Effective Date: <b>Quarter:</b> <input checked="" type="checkbox"/> Autumn <input type="checkbox"/> Winter <input type="checkbox"/> Spring <input type="checkbox"/> Summer <b>Year:</b> <u>20 11</u>		
Contact Person: Marlo Anderson	Phone: 206-616-1	Email: marlo@aa.washington.edu
		Box: 352400
<b>EXPLANATION OF AND RATIONALE FOR PROPOSED CHANGE</b>		
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).		
See Attached.		
<b>OTHER DEPARTMENTS AFFECTED</b>		
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 Attached.

**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 Attached.

**APPROVALS**

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

May 16, 2011

#### Rationale for Proposed Change

The currently admission requirements state that HCDE 231 must be taken prior to admission to the department, and that HCDE 333 or a departmentally approved alternative are required for graduation. However, because of recent events precipitated by budgetary issues, HCDE 231 is now restricted during period 1 and period 2 registration times to students already in major departments and HCDE 333 has been reduced to only three sections, for a total of only 90 spots for the Autumn quarter. Pre-Engineering students must wait until the first week of the quarter before they are allowed to register. These changes are placing an unnecessary burden on our students, who cannot complete necessary admission requirements in order to apply to our department. We are requesting that we be allowed to drop HCDE 231 as an admission requirement and graduation requirement, and to drop HCDE 333 as a graduation requirement. The University's writing requirement can be fulfill by other available means, as shown in our proposed catalog copy.

If we were to just drop HCDE 231 as an admission requirement and keep it as a graduation requirement students would have to wait until they were seniors before they would have sufficient room in their schedules to take the course. The junior year required curriculum is so full that it does not allow for any classes outside the department. HCDE 333 requires HCDE 231 as a prerequisite, and with no time to take HCDE 231 in the junior year, we would be requiring students to crowd both HCDE 231 and HCDE 333 at a time when they are trying finishing their degree programs.

Without these changes being approved, the time to degree will be extended well beyond the current four years. In our current and yet unknown budget situation it is highly unlikely that additional resources will become available in the near future to allow HCDE to add sufficient sections of HCDE 231 and HCDE 333 to accommodate all the students that need them.

## **Current Catalog Copy**

### **Department Admission Requirements**

Applicants are considered in two groups -- Early Admission and Upper-Division Admission. Admission is competitive. All applicants have the right to petition and appeal the department's admission decision. Applications are accepted for autumn quarter only; application deadline is July 1.

#### *Early Admission (Limited number of students admitted through this process)*

1. **Course requirements:** MATH 124, MATH 125, MATH 126; 10 credits of physical science courses plus accompanying laboratory at the level of PHYS 121, PHYS 122, PHYS 123, or CHEM 142 or above; and 5 credits of English composition. All courses must be completed prior to the July 1 application deadline.
2. Applicants must be currently enrolled at the UW and must have a minimum of 15 credits taken in residence at the UW.
3. Early admission students may start the autumn-quarter, junior-year program after meeting the requirements and standards for upper-division admission.

Completion of minimum requirements does not guarantee admission.

#### *Upper-Division Admission*

1. **Course Requirements:** MATH 124, MATH 125, MATH 126, MATH 307, MATH 308, MATH 324, PHYS 121, PHYS 122, PHYS 123, CHEM 142, A A 210, AMATH 301, CEE 220, M E 230, ~~CHEM E-260~~, ~~HCDE 231~~, and 5 credits of English composition. (AMATH 301 and/or MATH 324 may be taken as late as the autumn quarter of admission but would create an extremely heavy course load if both are taken the same quarter.)
2. **Grade Requirements:** At least 75 credits completed, with a minimum GPA of 2.50 in courses required for admission and a minimum grade of 2.0 in each course required for admission consideration.
3. **Completion of minimum requirements does not guarantee admission.**

~~Students may also declare into the Aeronautical and Astronautical degree program through the College of Engineering Advanced Admission program (See College of Engineering section for entrance and continuation requirements.)~~

### **Graduation Requirements**

180 credits, as follows:

1. **General Education Requirements (85 credits)**
2.
  - a. **Areas of Knowledge (49 credits):**
    - i. Visual, Literary, and Performing Arts (VLPA) and Individuals & Societies (I & S) - 24 credits, to include a minimum 10 credits in VLPA and a minimum 10 credits of I & S, plus 4 additional credits in either area.
    - ii. Natural World - 25 credits to include CHEM 142, PHYS 121, PHYS 122, PHYS 123, and an additional 5 credits of natural world courses (See department for list of approved courses.)
  - b. **Mathematics (24 credits):** MATH 124, MATH 125, MATH 126, MATH 307, MATH 308, and MATH 324.

- c. *Written and Oral Communication* (~~12 credits~~): One 5-credit English composition course from the University list, HCDE 231, and HCDE 333 (or department-approved alternative).

**3. Major Requirements (~~95 credits~~)**

- a. *Engineering Fundamentals* (16 credits): A A 210, CEE 220, M E 230, and CHEM E 260.
- b. *Professional Courses* (73 credits): Junior-year professional program courses (all required). Senior-year courses consist of A A 410-A A 411 (or A A 420-A A 421), A A 447 and 15 credits of senior technical electives. With approval, 3 credits of the latter may be chosen from another area of engineering.
- c. *Electives*: ~~6~~ credits of free electives, used to meet the 180 credits required for graduation.

## ***Proposed Catalog Copy***

### ***Department Admission Requirements***

Applicants are considered in two groups -- Early Admission and Upper-Division Admission. Admission is competitive. All applicants have the right to petition and appeal the department's admission decision. Applications are accepted for autumn quarter only; application deadline is July 1.

#### ***Early Admission (Limited number of students admitted through this process)***

1. **Course requirements:** MATH 124, MATH 125, MATH 126; 10 credits of physical science courses plus accompanying laboratory at the level of PHYS 121, PHYS 122, PHYS 123, or CHEM 142 or above; and 5 credits of English composition. All courses must be completed prior to the July 1 application deadline.
2. Applicants must be currently enrolled at the UW and must have a minimum of 15 credits taken in residence at the UW.
3. Early admission students may start the autumn-quarter, junior-year program after meeting the requirements and standards for upper-division admission.

Completion of minimum requirements does not guarantee admission.

#### ***Upper-Division Admission***

1. **Course Requirements:** MATH 124, MATH 125, MATH 126, MATH 307, MATH 308, MATH 324, PHYS 121, PHYS 122, PHYS 123, CHEM 142, A A 210, AMATH 301, CEE 220, M E 230, A A 260, and 5 credits of English composition. (AMATH 301 and/or MATH 324 may be taken as late as the autumn quarter of admission but would create an extremely heavy course load if both are taken the same quarter.)
2. **Grade Requirements:** At least 75 credits completed, with a minimum GPA of 2.50 in courses required for admission and a minimum grade of 2.0 in each course required for admission consideration.
3. **Completion of minimum requirements does not guarantee admission.**

### ***Graduation Requirements***

180 credits, as follows:

1. **General Education Requirements (78 credits)**
2. a. **Areas of Knowledge (49 credits):**
  - i. Visual, Literary, and Performing Arts (VLPA) and Individuals & Societies (I & S) - 24 credits, to include a minimum 10 credits in VLPA and a minimum 10 credits of I & S, plus 4 additional credits in either area.
  - ii. Natural World - 25 credits to include CHEM 142, PHYS 121, PHYS 122, PHYS 123, and an additional 5 credits of natural world courses (See department for list of approved courses.)
- b. **Mathematics (24 credits):** MATH 124, MATH 125, MATH 126, MATH 307, MATH 308, and MATH 324.
- c. **Written and Oral Communication (12 credits):** One 5-credit English composition course from the University list; one of Engl 182, Engl 281, courses designated as W courses, or departmentally approved alternatives; additional writing credits from courses within the major.
3. **Major Requirements (102 credits)**
  - a. **Engineering Fundamentals (16 credits):** A A 210, CEE 220, M E 230, and A A 260.

- b. *Professional Courses* (73 credits): Junior-year professional program courses (all required). Senior-year courses consist of A A 410-A A 411 (or A A 420-A A 421), A A 447 and 15 credits of senior technical electives. With approval, 3 credits of the latter may be chosen from another area of engineering.
- c. *Electives*: 13 credits of free electives, used to meet the 180 credits required for graduation.