

# UNIVERSITY of WASHINGTON

Michael K. Young President

October 16, 2013

Dean Michael B. Bragg College of Engineering Box 352180

Dear Michael:

Based on the recommendation of its Subcommittee on Admissions and Programs, the Faculty Council on Academic Standards has recommended approval of revised admission and program requirements for the Bachelor of Science in Human Centered Design and Engineering degree. A copy of the changes is attached.

I am writing to inform you that the Department of Human Centered Design and 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

cc:

Ms. Stephanie White (with enclosure)

Mr. Robert Corbett (with enclosure)

Ms. Virjean Edwards (with enclosure)



# UNIVERSITY OF WASHINGTON CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS

Controls

HCDE- 20(30423

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

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College/Campus Enginee	ering	Department/Unit HCDE	<b>Date</b> 4/23/2013	
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☐ Revised Requirements	for the Minor in			
Other Changes				
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Proposed Effective Date: Quarter: Autumn Winter Spring Summer Year: 20 13				
Contact Person: Stephanie White	Phone:	1 6020 Fmails white sign 1		
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HCDE 4-23-13

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Please see attachment A: Department Admission Requirements	
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APPROVALS	
Chair/Program Director:	
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College/School/Campus Curriculum Committee:	Date:
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Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:	<u> </u>
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Faculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Chair:

### **Undergraduate Program**

Adviser 423C 428 Sieg, Box 352315 (206) 543-1798 (206) 543-2567 teadvise@uw.edu\_hcde@uw.edu

The Department of Human Centered Design and Engineering (HCDE) offers the following programs of study:

- Bachelor of Science in Human Centered Design and Engineering degree
- A minor in technical Japanese

Bachelor of Science in Human Centered Design and Engineering Suggested First-Year College Courses: at least 5 credits of composition and approved mathematics or statistics (see list on HCDE website), approved science (see list on HCDE website)

### **Department Admission Requirements**

Applicants are considered in two groups: Early admission and upper division admission. Admission is competitive. Completion of minimum requirements does not guarantee admission. All applicants have the right to petition and appeal the department's admission decision.

### Direct Freshman Admission

The department enrolls up to 30% of its incoming class directly from high school, prior to completion of University-level prerequisites. Students accepted to the UW who indicate Human Centered Design and Engineering as their preferred major on the freshman application are automatically considered. Competitive applicants have taken or are taking calculus and at least two years of laboratory science (physics, chemistry preferred) in high school. Admission is for autumn quarter only.

#### Early Admission

- 1. Course requirements: 35 credits to include 10 credits of approved mathematics or statistics; 15 credits of approved natural science; and 10 credits of approved written and oral communication. All courses must be completed before the July 1 application deadline.
- 2. Applicants must be currently enrolled at the UW and must have completed a minimum of 15 credits taken in residence at the UW. Application deadline is July 1 for autumn quarter only.
- 3. Grade requirements: Minimum 3.00 GPA in written and oral communications

### courses and minimum 2.00 cumulative GPA

### Upper Division Regular Admission

- 1. Course requirements: 10 credits of approved mathematics or statistics; 15 credits of approved natural science; and 10 credits of approved written and oral communication; and CSE 140 or CSE 142. All courses must be completed prior to the July 1 or February 1 application deadlines.
- 2. 60 credits completed by Application deadline: July 1 for autumn quarter and February 1 for spring quarter.
- 3. Students applying in the senior year must spend a minimum of four quarters in the program.
- 4. Grade requirements: Minimum 3.00 GPA in written and oral communications courses and minimum 2.00 cumulative GPA.

### **Graduation Requirements**

180 credits as follows:

General Education Requirements (93 credits)

- 1. Written and Oral Communication (13 credits): 5 credits of English composition from the University list; HCDE 231; 5 credits of oral/written communication from HCDE list (see adviser)
- 2. Visual, Literary, & Performing Arts (VLPA), and Individuals & Societies (I&S) (30 credits): Minimum of 10 credits is required in each area
- 3. Mathematics and Natural Science (50 credits):
- a. Mathematics (minimum 15 credits; see list of qualifying courses on HCDE website)
- b. Science (minimum 15 credits; see list of qualifying courses on HCDE website)

Major Requirements (83-87 credits)

- 1. HCDE Core (52 credits): HCDE 300, HCDE 303, HCDE 310, HCDE 313, HCDE 321, HCDE 411, HCDE 417, HCDE 418, HCDE 437, HCDE 493, HCDE 495 (3), HCDE 496 (2)
- 2. Technical/Analytical (12 credits): Must include CSE 140 or CSE 142
- 3. Area of Concentration (19-23 credits): Students may choose a transcriptable option in Human-Computer Interaction (HCI) or select a coherent and relevant list of approved electives to create a non-transcripted, individualized area of specialization, aligned with their personal interests or career goals. See adviser for

transcriptable options and individualized area of specialization.

Free Electives (1-5 credits)

### Minor

Minor Requirements: Technical Japanese: Minimum of 25 credits to include HCDE 461 (5), HCDE 462 (5), HCDE 463 (5), plus 10 credits from the approved list of elective courses. For more information, contact the Technical Japanese Office, 13 Engineering Library.

### **Student Outcomes and Opportunities**

Understand the HCDE field

- Learning Objectives and Expected Outcomes: The department has identified several
  areas of competency for students. By achieving mastery in all these areas, upon
  graduation HCDE students are well prepared to advance to careers in technical
  communication human centered design and engineering (HCDE), apply to top
  graduate programs, and conduct research in the field. Graduates are able to:
- Write and edit at a professional level
   Analyze communication situations and problems in scientific and technical settings
- Identify and work with the major genres of technical communication
- Use appropriate tools and technologies to develop communication solutions
- Understand and use principles for effective display of information
- Understand and practice effective content development
- Manage HCDE projects effectively
- Work effectively on teams
- Be sensitive to relevant larger contexts and environments
- Conduct user research, using quantitative and qualitative methods, to:

  Identify needs and potential opportunities for new systems

  Identify strengths and market and
  - Identify strengths and weaknesses of existing systems
- o <u>Ideate based on understanding of users and their context.</u>
- Design new systems or refinements to existing systems based on an understanding of people's wants and needs.
- Evaluate potential ideas, concepts or designs according to a variety of perspectives (e.g., including economic, usability, experience, and value-sensitive evaluations), including evaluation of scenarios and prototypes of varying levels of fidelity.
- Build prototypes of varying levels of fidelity and for various purposes, such as

look and feel prototypes and functional prototypes.

- Ounderstand the relationships between social and technical elements of systems, and how interventions that change one component may affect the other components.
- Communicate user needs and design proposals in written, spoken, and multimedia forms, to clients and other stakeholders including
- Potential investors
- Engineers who could conduct detailed design and development of proposed solutions
- Stakeholders who would be affected by the implementation or adoption of the proposed solutions
- others accomplish their work.
- Accomplish above activities while maintaining an ethical perspective and awareness of their own skills and abilities.
- The Department of Human Centered Design and Engineering prepares students to assume positions of intellectual leadership in industry, government, and non-profit organizations. Students also specialize in science writing or website design. The Technical Japanese program provides a unique opportunity to develop cross-cultural experience and expertise. Whatever their professional direction, HCDE students learn the newest communication technologies and practices, the most effective information-design strategies, and the research skills appropriate to their interests. They also learn the enduring theory and principles that enable them to understand the constant changes they will encounter throughout their careers. Finally, their coursework takes place in the context of social and political issues and human needs.
- Instructional and Research Facilities: Department facilities include the HCDE

  Computer Design Lab, Laboratory for Usability Testing and Evaluation (LUTE),
  and the Technical Japanese Computer Lab, Laboratory for Usability Testing and
  Evaluation (LUTE), and the Engineering/iSchool Writing Center (EiWC).
- Honors Options Available: With College Honors (Completion of Honors Core Curriculum and Departmental Honors). With Honors (Completion of Departmental Honors requirements in the major). See adviser for requirements.
- Research, Internships, and Service Learning: All HCDE undergraduates are required to complete at least one 3-credit internship. The supervised internship in a publications organization must be approved by the faculty adviser. As an internship substitution, students may elect to take part in a six-month co-op, sponsored by the Engineering Co-op program. Additionally, undergraduates are invited to work in research groups with HCDE graduate students and faculty.
- Department Scholarships: Annually, HCDE selects one recipient of a College of Engineering Scholarship. The criteria for this scholarship are the applicant's prior academic history and likelihood for success in the technical communication

human centered design and engineering field. Additionally, the Society for Technical Communication (STC) offers annual scholarships open to all students enrolled in a HCDE-related program.

Student Organizations/Associations: Students in the HCDE degree program often
participate in the Student Chapter of the Society for Technical Communication
(STC) HCDE Student Association, the Minority Science and Engineering
Program (MSEP), and Women in Science and Engineering (WISE).

Of Special Note: The HCDE department is a small, academic community. Students generally call their professors by their first name and have the opportunity to work individually on projects and research supervised by HCDE faculty. Undergraduate students are encouraged to work in research groups and to attend conferences and professional meetings.

# **Undergraduate Program**

Adviser423C Sieg, Box 352315(206) 543-1798tcadvise@uw.edu

The Department of Human Centered Design and Engineering (HCDE) offers the following programs of study:

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# **Bachelor of Science in Human Centered Design** and Engineering

Suggested First-Year College Courses: at least 5 credits of composition and approved mathematics or statistics (see list on HCDE website), approved science (see list on HCDE website)

# Department Admission Requirements

Applicants are considered in two groups: Early admission and upper-division admission. Admission is competitive. Completion of minimum requirements does not guarantee admission. All applicants have the right to petition and appeal the department's admission decision.

## Early Admission

- 1. Course requirements: 35 credits to include 10 credits of approved mathematics or statistics; 15 credits of approved natural science; and 10 credits of approved written and oral communication. All courses must be completed before the July 1 application deadline.
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only.

3. Grade requirements: Minimum 3.00 GPA in written and oral communications courses and minimum 2.00 cumulative GPA

# Upper-Division Admission

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- 3. Students applying in the senior year must spend a minimum of four quarters in the program.
- 4. Grade requirements: Minimum 3.00 GPA in written and oral communications courses and minimum 2.00 cumulative GPA

# **Graduation Requirements**

180 credits as follows:

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# **Student Outcomes and Opportunities**

- Learning Objectives and Expected Outcomes: The department has identified several areas of competency for students. By achieving mastery in all these areas, upon graduation HCDE students are well prepared to advance to careers in technical communication, apply to top graduate programs, and conduct research in the field. Graduates are able to:
- Understand the HCDE field

## Attachment A - Current Catalog Copy

- Write and edit at a professional level
- Analyze communication situations and problems in scientific and technical settings
- o Identify and work with the major genres of technical communication
- Use appropriate tools and technologies to develop communication solutions
- Understand and use principles for effective display of information
- Understand and practice effective content development
- Manage HCDE projects effectively
- Work effectively on teams
- Be sensitive to relevant larger contexts and environments
- The Department of Human Centered Design and Engineering prepares students to assume positions of intellectual leadership in industry, government, and non-profit organizations. Students also specialize in science writing or website design. The Technical Japanese program provides a unique opportunity to develop cross-cultural experience and expertise. Whatever their professional direction, HCDE students learn the newest communication technologies and practices, the most effective information-design strategies, and the research skills appropriate to their interests. They also learn the enduring theory and principles that enable them to understand the constant changes they will encounter throughout their careers. Finally, their coursework takes place in the context of social and political issues and human needs.
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Computer Lab, Laboratory for Usability Testing and Evaluation (LUTE), and the Engineering/iSchool Writing Center (EiWC).

- Honors Options Available: With College Honors (Completion of Honors Core Curriculum and Departmental Honors). With Honors (Completion of Departmental Honors requirements in the major). See adviser for requirements.
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Attachment A – Current Catalog Copy

are encouraged to work in research groups and to attend conferences and professional meetings.

# Attachment B - Proposed Catalog Language (fully edited)

## **Department Admission Requirements**

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- 4. Grade requirements: Minimum 3.00 GPA in written and oral communications courses and minimum 2.00 cumulative GPA.