UNIVERSITY *of* WASHINGTON

HUMAN CENTERED DESIGN & ENGINEERING

APPLICATION DEADLINES

- **January 15** for spring quarter
- **April 5** for autumn quarter

Direct to College Engineering students follow different application requirements. see hcde.uw.edu/bs/admission for details.

APPLICATION MATERIALS

- Complete prerequisite courses
- Personal statement
- Application

  Application is available online two weeks before the deadline

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BACHELOR OF SCIENCE IN HCDE

Putting people first, students in Human Centered Design & Engineering (HCDE) research, design, and engineer interactions between humans and technology. The HCDE undergraduate program provides a solid foundation in conducting user research, designing user experiences, creating information visualizations, and designing and building web technologies.

CAREERS

Graduates of HCDE receive engineering degrees and find jobs as user experience (UX) researchers and designers, product managers, usability evaluators, information architects, interaction and product designers, program managers, web and information developers, and more.

INDUSTRIES

Located at the University of Washington in Seattle, HCDE students have access to Amazon, Microsoft, Google, Facebook, Boeing, and other prominent corporations located in the Pacific Northwest.

COMPUTING   **CONSUMER GOODS**   **MANUFACTURING**   **VIRTUAL REALITY**

HEALTH & WELLNESS   **BIG DATA**   **INTERNET OF THINGS**   **SOCIAL INNOVATION**

DEGREE REQUIREMENTS //

HCDE students complete 46 credits of required core courses, 12 credits of engineering fundamentals, and 25–29 credits of elective courses in research, design, and engineering. The elective coursework allows students to create a specialization targeted to their professional and academic goals.

ADMISSION REQUIREMENTS

MATHEMATICS

Two classes from:

MATH 120	MATH 125
MATH 124	MATH 126

STATISTICS

One class from:

STAT 220	CS&SS 221
STAT 221	STAT 311
SOC 221	IND E 315

SCIENCES

Three classes from:

BIOL 118	PHYS 115
BIOL 180	PHYS 121
CHEM 142	PHYS 122
CHEM 152	PSYCH 202
PHYS 114	

For Spring 2019 and Autum 2019, one science course can be in progress

ENGLISH

Minimum of 5 credits of first-year composition.

PROGRAMMING

Minimum of 4 credits of programming:
CSE 142 *or* CSE 160

Minimum admission requirements

Does not apply for Direct to College students

Minimum 2.00 cumulative GPA

All courses must be completed before January 15 or April 5 application deadlines, with the exception of one science class that can be in progress.

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GRADUATION REQUIREMENTS

ENGINEERING FUNDAMENTALS — 12 Credits

AA 210	CSE 160	M E 230
AA 260	EE 215	MSE 170
CEE 220	IND E 250	PHIL 120
CSE 142	IS 300	HCDE 496 *(max 4 credits).*
CSE 143	M E 123	

WRITTEN AND ORAL COMMUNICATION — 8 Credits

5 credits of English Comp from the University list *and* HCDE 231

VISUAL, LITERARY, & PERFORMING ARTS / INDIVIDUALS & SOCIETY (VLPA/I&S) — 30 Credits

Minimum 10 credits in VLPA required.
Minimum 10 credits in I&S required.

MATHEMATICS / SCIENCE — 50 Credits

Minimum 15 credits in Mathematics / Statistics.
Minimum 15 credits in Sciences. *See departmental lists for both.*

HCDE CORE COURSES — 46 Credits

HCDE 300 (5 cr) – Foundations of HCDE
HCDE 301 (5 cr) – Written Communication in HCDE
HCDE 308 (5 cr) – Visual Communication in HCDE
HCDE 310 (5 cr) – Interactive Systems Design and Tech
HCDE 313 (5 cr) – Introduction to User Research
HCDE 318 (5 cr) – Introduction to User-Centered Design
HCDE 321 (2 cr) – Portfolio
HCDE 322 (2 cr) – Organizational Teamwork
HCDE 492 (2 cr) – Capstone Planning
HCDE 493 (5 cr) – Senior Capstone Project
HCDE 495 (3 cr) – Prof. Practice/Internship
HCDE 496 (2 cr) – Directed Research in HCDE

HCDE ELECTIVES — 24–25 Credits

Additional courses chosen from approved electives, please see HCDE website or adviser for course list.

FREE ELECTIVES — 9–10 Credits

Total credits required for graduation: 180 credits