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.

APPLICATION DEADLINES
- February 1 for spring quarter
- July 1 for autumn quarter

APPLICATION MATERIALS
- Complete prerequisite courses
- Personal statement
- Application
  Application is available online two weeks before the deadline

CONTACT US
- hcde.uw.edu
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- hcdeuw
- bit.ly/hcde-youtube

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 5 Credits

MATH 120 or MATH 124

STATISTICS ≥3 Credits

One class from:
STAT 220  STAT/MATH 390
STAT 221  IND E 315
SOC 221  QMETH 201
CS&SS 221  Q SCI 381
STAT 311

SCIENCES ≥8 Credits

Two classes from:
BIOL 118  PHYS 114
BIOL 180  PHYS 115
BIO A 201  PHYS 121
CHEM 142  PHYS 122
CHEM 152  PSYCH 202

ENGLISH 5 Credits

Minimum of 5 credits of first-year composition.

PROGRAMMING ≥4 Credits

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

Minimum admission requirements

Minimum 2.00 cumulative GPA
All courses must be completed before February 1 or July 1 application deadlines.

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