

Name: \_\_\_\_\_ Student ID#: \_\_\_\_\_

Date: \_\_\_\_\_

### Comp E Admission Prerequisites

*\* minimum 2.0 grade required*

English Composition	5		CSS 142: Computer Programming I	5	
STMATH 124: Calculus I	5		CSS 143: Computer Programming II	5	
STMATH 125: Calculus II	5		B PHYS 121 Mechanics	5	
STMATH 126: Calculus III	5		B PHYS 122: Electromag& Osc Motion	5	

### Areas of Knowledge: 30 credits

Visual, Literary, Performing Arts (VLPA): 15 credits	Credits	Grade	Individuals & Societies (I&S): 15 credits	Credits	Grade

### Diversity (DIV) Course: 3 credits

*Can be met through VLPA or I&S*

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### Writing/Composition: 15 credits

English Composition		Comp E Admission Prerequisite
B WRIT 135: Research Writing or Intro to Technical Writing**	5	
CSS 301: Technical Writing	5	

### Other Major Requirements

*Courses with \*\* can be completed before admittance*

Natural Science		
B CHEM 143: General Chemistry I**	4	
B CHEM 144: General Chemistry I Lab**	2	
Math		
ST MATH 307: Introduction to Differential Equations**	5	
ST MATH 308: Matrix Algebra with Applications**	5	
ST MATH 324: Multivariable Calculus**	5	
ST MATH 390: Probability & Statistics in Engineering	5	

### Degree Requirements

#### CSS: 25 credits

CSS 342: Data Structures, Algorithms & Discrete Mathematics I	5	
CSS 343: Data Structures, Algorithms, Discrete Mathematics II	5	
CSS 360: Software Engineering	5	
CSS 427: Intro to Embedded Systems	5	
CSS 430: Operating Systems	5	

#### B EE: 25 credits

B EE 215: Fundamentals of EE	5	
B EE 233: Circuit Theory	5	
B EE 235: Continuous Time Linear Systems	5	
B EE 271: Digital Circuits & Systems	5	
B EE 331: Devices & Circuits I	5	

#### Hardware or Microprocessor System Design (choose one): 5 credits

CSS 422: Hardware & Computer Organization <b>OR</b>	5	
B EE 425: Microprocessor System Design		

#### Business/Management (choose one): 5 credits

CSS 350: Management Principles for Computing Professionals <b>OR</b>	5	
BEE/CSS 371: The Business of Technology		

#### CSS or B EE Electives: 10 credits

*Max of 5 credits combined can be CSS or B EE Special topics courses.*

*Max of 5 credits combined can be CSS or B EE Independent Study or Undergrad Research.*

300 OR 400 Level Class:	5	
400 Level Class:	5	

#### Capstone (must be taken consecutive quarters): 5 credits

B CE 495: Capstone Design I	2	
B CE 496: Capstone Design II	3	

**\*\*\* See policies on next page**

## Policies

- All major requirements and prerequisite courses must be completed with a minimum of a 2.0 GPA
- Capstone Design I & II must be taken consecutive quarters
- Complete Graduation Application 2-3 quarters prior to graduation

### *UW Policies*

- UW Bothell Residence credit – 45 out of last 60 credits earned must be taken at UW Bothell
- Cross Campus Enrollment – after earning 15 credits at home campus, students are eligible to take up to 15 credit per year at another UW campus.
- Maximum of 15 credits in Electrical Engineering are allowed to be taken at UW-Seattle

## **The Computer Engineering program faculty at the University of Washington Bothell have developed, adopted, and maintained a well-defined set of educational objectives and desired student outcomes.**

**Educational Objectives** The educational objective of the Computer Engineering degree is to prepare students:

- to become engineers who can assume leadership roles, technical or managerial, in computer engineering and related fields
- to become successful in pursuing advanced studies in computer engineering and related fields
- to become contributing citizens who are conscientious of ethical and societal responsibilities
- to become effective communicators in professional and non-professional environments and be able to function as a team member.

**Student Outcomes** The Computer Engineering program faculty have adopted the engineering criteria (a) through (k) Student Outcomes:

**Outcome (a)** An ability to apply knowledge of mathematics, science, and engineering.

**Outcome (b)** An ability to design and conduct experiments, as well as to analyze and interpret data.

**Outcome (c)** An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.

**Outcome (d)** An ability to function on multi-disciplinary teams.

**Outcome (e)** An ability to identify, formulate, and solve engineering problems.

**Outcome (f)** An understanding of professional and ethical responsibility.

**Outcome (g)** An ability to communicate effectively.

**Outcome (h)** The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context.

**Outcome (i)** A recognition of the need for and an ability to engage in life-long learning.

**Outcome (j)** A knowledge of contemporary issues.

**Outcome (k)** An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice