

OFFICE OF THE PRESIDENT

June 7, 2011

Vice Chancellor Susan Jeffords University of Washington, Bothell Box 358522

Dear Susan:

Based upon the recommendations of the Executive Council, the General Faculty Organization has recommended approval of the revised program requirements for the Bachelor of Science in Electrical Engineering degree. A copy of the change is attached.

I am writing to inform you that the Science and Technology program is authorized to specify these requirements beginning autumn quarter 2011.

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,

Phyllis M. Wise Interim President

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Enclosure

cc: Dr. Arnold S. Berger (with enclosure)

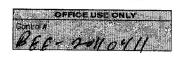
Mr. Robert Corbett (with enclosure)

Dr. Deborah H. Wiegand (with enclosure)

Ms. Virjean Edwards (with enclosure BEE-20110411)



UNIVERSITY OF WASHINGTON CREATING AND CHANGING UNDERGRADUATE ACADEMIC PROGRAMS



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

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College/Campus Bothell New Programs		Department/Unit Science	and Technology	Date April 11, 2011
Leading to a Bachelor of		in		degree
Leading to a Bachelor of		degree with a major	in	deglee.
Leading to a		Option within the existing n	najor in	*
Leading to a minor in			-	·
Changes to Existing Progra	ms		within the Bachelor o	f
Revised Admission Requi	irements for the Major	r in	within the Bachelor	of
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Revised Requirements for	r the Minor in	•		· · · · · · · · · · · · · · · · · · ·
Other Changes				
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Proposed Effective Date: Quarter: [Autumn Winter	Spring Summer Year: 20	11	
Contact Person: Arnold S. Berger, Ph.				
EXPLANATION OF AND RATIONALE			du	Box: 358538
For new program, please include a letters of support and departmenta	any relevant supporting	o documentation such as student le	arning outcomes, pro	jected enrollments,
The proposed change, which expar represents a reorganization to ensu ABET accreditation requirements. E ensures that students have appropr	By adding a micronr	ocessor course to the core requi	degree program is	in compliance with
and digitatare of the originalization of	credited programs affe f each department/un Chair/Program Directo	ected by your new program or chang it listed. Attach additional page(s) if or:	necessary. *See onlin	ogram and acquire ne instructions. Date:
Department/Unit:	Chair/Program Directo	or		Date:

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PROPOSED CATALOG COPY		
Reflecting requested changes (Include exact wording as you wish it to be shown in the highlight any additions. If needed, attach a separate, expanded version of the changes Please note: all copy will be edited to reflect uniform style in the General Catalog.	printed catalog. Please underline or that might appear in department pub	otherwise lications).
Please see attached.		
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APPROVALS		
Chair/Program Director:	Date:	
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College/School/Campus Curriculum Committee:	Date:	1/2//
Dean/Vice Chancellor:		11/11
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aculty Council on Academic Standards/ General Faculty Organization/Faculty Assembly Cl	nair: Date:	
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POST TRI-CAMPUS APPROVAL (when needed)		
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Catalog Copy

Core Courses (35 credits):

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B EE 215 Fundamentals of Electrical Engineering (5)
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B EE 233 Circuit Theory (5)

B EE 235 Continuous Time Linear Systems (5)

B EE 271 Digital Circuits and Systems (5)

B EE 331 Devices and Circuits I (5)

B EE 332 Devices and Circuits II (5)

B EE 495 Capstone Project (5)

Electives (25 credits chosen from the following list; at least 15 credits to be upper-division):

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B EE 341 Discrete Time Linear Systems (5)
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B EE 361 Applied Electrodynamics (5)

B EE 417 Digital Communication (5)

B EE 422 Hardware and Computer Organization (5)

B EE-425 Microprocessor System Design (5)

B EE 427 Introduction to Embedded Systems (5)

B EE 433 Electronic Circuit Design (5)

B EE 442 Digital Signal Processing (5)

B EE 482 Semiconductor Devices (5)

B EE 484 Sensors and Sensor Systems (5)

B EE 490 Special Topics in Electrical Engineering (1-5, max. 10)

Engineering Topics (10 credits, 5 from list A and 5 from list B):

List A: Business Management

B-EE/CSS 371 The Business of Technology (5)

CSS 350 Management Principles for Computing Professionals (5)

CSS 461 Software Project Management (5)

List B: Society and Societal Impact

CSS 211 Computers & Society (5)

BISSTS 307 Science, Technology & Society (5)

CSS 411 Computing Technology & Public Policy (5)

BST 445 Political Economy of Energy (5)

Foundational Courses (80 credits)

B CUSP 124 Calculus I (5)*

B CUSP 125 Calculus II (5)*

B CUSP 126 Calculus III (5)*

BST 307 Differential Equations (5)

BST 308 Linear Algebra (5)

BST 324 Multivariate Calculus (5)

BST 390 Probability and Statistics for Engineers (5)

B CUSP 142 General Chemistry 1 (5)*

B PHYS 121 Mechanics (5)*

B PHYS 122 Electromagnetism & Oscillatory Motion (5)*

B PHYS 123 Waves (formerly B CUSP 151; 5)

B CUSP 101 Composition (5)*

B CUSP 135 Research Writing (5)

CSS 301 Technical Writing for Computing Professionals (5)

CSS 161 Fundamentals of Computing (5)

CSS 162 Programming Methodology (5)

New Catalog Copy

Core Courses (60 credits):

B EE 215 Fundamentals of Electrical Engineering (5)

B EE 233 Circuit Theory (5)

B EE 235 Continuous Time Linear Systems (5)

B EE 271 Digital Circuits and Systems (5)

B EE 331 Devices and Circuits I (5)

B EE 332 Devices and Circuits II (5)

B EE 341 Discrete Time Linear Systems (5)

B EE 361 Applied Electrodynamics (5)

B EE/CSS 371 The Business of Technology (5)

B EE 425 Microprocessor System Design (5)

B EE 495 Capstone Project (5)

BST 390 Probability and Statistics for Engineers

Electives (15 credits from the following list; a combined maximum of 10 credits of B EE 490, B EE 498, and B EE 499 may be counted toward the 15 credit requirement):

B EE 417 Digital Communication (5)

B EE 422 Hardware and Computer Organization (5)

B EE 427 Introduction to Embedded Systems (5)

B EE 433 Electronic Circuit Design (5)

B EE 442 Digital Signal Processing (5)

B EE 482 Semiconductor Devices (5)

B EE 484 Sensors and Sensor Systems (5)

B EE 490 Special Topics in Electrical Engineering (1-5, max. 10)

B EE 498 Undergraduate Research in Electrical Engineering (2-5, max. 10)

B EE 499 Independent Study in Electrical Engineering (2-5, max. 10)

Foundational Courses (75 credits)

B CUSP 124 Calculus I (5)*

B CUSP 125 Calculus II (5)*

B CUSP 126 Calculus III (5)*

BST 307 Differential Equations (5)

BST 308 Linear Algebra (5)

BST 324 Multivariate Calculus (5)

^{*}Prerequisite course; must be completed prior to admission to degree.

B CUSP 142 General Chemistry 1 (5)*

B PHYS 121 Mechanics (5)*

B PHYS 122 Electromagnetism & Oscillatory Motion (5)*

B PHYS 123 Waves (formerly B CUSP 151; 5)

B CUSP 101 Composition (5)*

B CUSP 135 Research Writing (5)

CSS 301 Technical Writing for Computing Professionals (5)

CSS 161 Fundamentals of Computing (5)

CSS 162 Programming Methodology (5)

^{*}Prerequisite course; must be completed prior to admission to degree.