

AS Degree, Computer Science PSU for Catalog 2018-2019

AS Degree, Computer Science PSU- FIRST YEAR

FALL TERM		CREDITS	PREREQUISITIES	QUARTER	
BI-211 or CH-221 or PH-211	General Biology for Science Majors (Cellular Biology) General Chemistry	5	BI-211: Recommended MTH-111 or placement in MTH-112; WRD-090 or placement in RD-115; WRD-098 or placement in WR-121. Corequisite: Current enroll. in or completion of CH-104 or CH-221	BI-211 (Fall) or CH-221 (Fall/Winter)	
Physics with Calculus			CH-221: Prerequisites: A year of high school chemistry or CH-150, or CH-104 and CH-105; MTH-095 with a C or better, or placement in MTH-105 or MTH-111	or PH-211 (Fall)	
			PH-211: Prerequisites: MTH-251 with a C or better or placement in MTH-252 and WRD-090 with a C or better or placement in RD-115, or placement in WR-121. Recommended: MTH-254		
CS-161	Computer Science I	4	Prerequisites: MTH-111 or placement in MTH-112, or 4 years high school math	Fall/Winter	
MTH-251	Calculus I	5	Prerequisite: MTH-112 with a C or better or placement in MTH-251. Recommended: WRD-098 or placement in WR-121	Fall/Win/Spr/Sum	
WINTER TERM					
BI-212 or CH-222	General Biology for Science Majors (Animal Biology) or	5	BI-212: Corequisite: CH-105 or CH-222	BI-212 (Winter) or CH-222	
or PH-212	or PH-212 General Chemistry or		CH-222: Prerequisite: CH-221	(Winter/Spring) or PH-212 (Winter)	
	Physics with Calculus		PH 212: Prerequisites: PH-211 and MTH-252. Recommended: MTH-254	OFFIT-212 (Willer)	
CS-162	Computer Science II	4	Prerequisite: CS-161	Winter/Spring	
MTH-252	Calculus II	5	Prerequisite: MTH-251 with a C or better. Recommended: WRD-098 or placement in WR-121	Fall/Win/Spr/Sum	
SPRING TERM			oco di piacomontini viti 121		
BI-213 or CH-223	General Biology for Science Majors	5	BI 213: Prerequisite or Corequisite: CH-105 or CH-222	BI-213 (Spring) or CH-223	
or PH-213	(Plant Biology & Ecology) or General Chemistry or		CH-105 or CH-223. CH 223 Prerequisite: CH-222	(Spring/Summer) or PH-213 (Spring)	
Physics with Calculus			PH 213: Prerequisite: PH-212	or r ri-213 (Spillig)	
CS-260	Data Structures	4	Prerequisite: CS-162	Spring	
MTH-253 or MTH-261	Calculus III or Linear Algebra	5	Prerequisite: MTH-252 with a C or better; Recommended: WRD-098 or placement in WR-121	MTH-253: Fall/Win/Spr MTH-261:	
Choose Arts & Letters or Soc. Science electives	Arts & Letters or Social Science electives	3-4		Fall/Spring/Summer	
SUMMER TERM					
COMM-111	Public Speaking	4	Prerequisites: WRD-090 or placement in RD-115; WRD-098 or placement in WR-121	Fall/Win/Spr/Sum	
WR-121	English Composition	4	Prerequisite: WRD-098 or placement in WR-121. Recommended:	Fall/Win/Spr/Sum	
Choose Arts & Letters or Soc. Science electives	Arts & Letters or Social Science electives	6-8	WRD-090 or placement in RD-115		

AS Degree, Computer Science PSU-SECOND YEAR

omputer Systems II omputer Science commended electives cience electives	CREDITS 4 3-4	PREREQUISITIES Prerequisite: CS-162		QUARTER Fall
omputer Science commended electives		Prerequisite: CS-162		Fall
commended electives	3-4			
cience electives				
	4			
ogram Structures	4	Prerequisite: CS-162		Winter
screte Structures I	4	Prerequisite: MTH-251		Winter
echnical Report Writing	4	Prerequisite: WR-121 with a C or better. or placement in RD-115	Recommended: WRD-090	Fall/Win/Spr/Sum
omputer Science commended electives	3-4			
screte Structures II	4	Prerequisite: CS-250		Spring
omputer Science commended electives	3-4			
omputer Science commended electives	3-4			
ts & Letters or Social cience electives	3-4			
t t	ogram Structures screte Structures I chnical Report Writing amputer Science commended electives commended electives commended electives commended electives commended electives commended electives	ogram Structures 4 screte Structures I 4 chnical Report Writing 4 computer Science 3-4 commended electives screte Structures II 4 computer Science 3-4 commended electives commended electives screte Structures II 4 computer Science 3-4 commended electives screte Structures II 3-4 computer Science 3-4 commended electives	ogram Structures 4 Prerequisite: CS-162 Screte Structures I 4 Prerequisite: MTH-251 chnical Report Writing 4 Prerequisite: WR-121 with a C or better. or placement in RD-115 computer Science commended electives Prerequisite: WR-121 with a C or better. or placement in RD-115 computer Science commended electives Prerequisite: CS-250 computer Science commended electives Screte Structures II 4 Prerequisite: CS-250 computer Science commended electives Prerequisite: MTH-251 Prerequisite: WR-121 with a C or better. or placement in RD-115 Screte Structures II 4 Prerequisite: CS-250 Screte Structures II 4 Prerequisite: CS-250	ogram Structures 4 Prerequisite: CS-162 Screte Structures I 4 Prerequisite: MTH-251 Chnical Report Writing 4 Prerequisite: WR-121 with a C or better. Recommended: WRD-090 or placement in RD-115 screte Structures II 4 Prerequisite: CS-250 screte Structures II 4 Prerequisite: CS-250 screte Structures II 4 Prerequisite: CS-250 screte Structures II 3-4 screte Science 3-4

Credits required for degree: 90-106

COMPUTER SCIENCE RECOMMENDED ELECTIVES:

Students must choose 12-16 credits from the following the categories of Operating Systems and Additional Languages. Students do not need to complete all of the electives within any one category.

- Operating Systems: Transfer students will be expected to be fluent with UNIX/Linux systems used in university labs. These courses will help students with no Linux experience build the necessary competencies: CS-140 Introduction to Operating Systems (Fall/Spring) and CS-240L Linux Administration (Spring).
- Additional Languages: These courses will help students expand their language repertoire to enhance their marketability and job opportunities: CS-125H HTML & Web Site Design (Fall/Win/Spr/Sum), CS-133S Introduction to Java Script & Server-side Scripting (Winter), CS-234J jQuery Web Development (Spring), and CS-234P PHP/MySQL Web Development (Spring).

COMPUTER SCIENCE RECOMMENDED ELECTIVES:

Students must choose 12-16 credits from the following the categories of Operating Systems and Additional Languages. Students do not need to complete all of the electives within any one category.

- Operating Systems: Transfer students will be expected to be fluent with UNIX/Linux systems used in university labs. These courses will help students with no Linux experience build the necessary competencies:
 CS-140 Introduction to Operating Systems (Fall/Spring) prereq is CS 120
 CS-240L Linux Administration (Spring) prereq is CS 140
- Additional Languages: These courses will help students expand their language repertoire to enhance their marketability and job opportunities:
 - CS-125H HTML & Web Site Design (Fall/Win/Spr/Sum) prereq is CS 120
 - CS-133S Introduction to Java Script & Server-side Scripting (Winter) prereq is CS 125H
 - CS-234J jQuery Web Development (Spring) no prereq
 - CS-234P PHP/MySQL Web Development (Spring) prereq is CS 125H, recommended CS 275

FALL	WINTER	SPRING	SUMMER
CS-140 (4)		CS-140 (4)	
		CS-240L (4)	
CS-125H (3)	CS-125H (3)	CS-125H (3)	CS-125H (3)
	CS-133S (3)		
		CS-234J (3)	
		CS-234P (3)	

ARTS & LETTERS OR SOCIAL SCIENCE ELECTIVES: Any 100 level or above Arts & Letters or Social Science course in the prefixes of: (Arts & Letters) ART Art, ASL American Sign Language, BA Business Administration, COMM Communication Studies, ENG English, FR French, GER German, HUM Humanities, J Journalism, MUS Music, MUP Music Performance, PHL Philosophy, R Religious Studies, SPN Spanish, TA Theatre Arts, WR Writing (Social Science) ANT Anthropology, EC Economics, GEO Geography, HST History, PS Political Science, PSY Psychology, SOC Sociology, SSC Social Science, WS Women's Studies

SCIENCE ELECTIVES: Any General Education science course listed under prefixes: BI Biology, CH Chemistry, ESR Environmental Science, G Geology, and PH Physics on p.50 of the catalog.

BI-101 General Biology; Cellular Biology

BI-102 General Biology; Animal Systems

BI-103 General Biology; Plants and the Ecosystem

BI-112 General Biology for Health Sciences

BI-160 Bird ID & Taxonomy

BI-160L Bird ID & Taxonomy Lab

BI-165C Natural History of the Oregon Coast

BI-165CL Natural History/Oregon Coast Lab

BI-165D Natural History of the Western Deserts

BI-165T Natural History of Tropical Ecosystems

BI-175, BI-176, BI-177 Integrated Science Inquiry

BI-204 Elementary Microbiology

BI-211 General Biology for Science Majors (Cellular Biology)

BI-212 General Biology for Science Majors (Animal Biology)

BI-213 General Biology for Science Majors (Plant Biology & Ecology)

BI-231 Human Anatomy and Physiology I

BI-232 Human Anatomy and Physiology II

BI-233 Human Anatomy and Physiology III

BI-234 Introductory Microbiology

CH-104, CH-105, CH-106 Introductory Chemistry

CH-112 Chemistry for Health Sciences

CH-114 Chemistry in Art

CH-221, CH-222, CH-223 General Chemistry

ESR-171, ESR-172, ESR-173 Environmental Science

G-101, G-102, G-103 General Geology

G-145 Geology of Pacific Northwest

G-148 Volcanoes & Earthquakes

G-201, 202, 203 General Geology

PH-104, PH-121 Not in catalog

PH-121, PH-122, PH-123 General Astronomy

PH-201, PH-202, PH-203 General Physics

PH-211, PH-212, PH-213 General Physics With Calculus