Bachelor's of Science in Computer Science
Four-Year Plan of Study (2016-2017)

BOISE STATE UNIVERSITY

FIRST-YEAR

FALL		SPRING	
COMM 101: Fundamentals of Communication ***DLS***	3	CS 121: Computer Science I	3
ENGL 101: Introduction To College Writing	3	CS 121L: Computer Science I Lab	1
Math 170: Calculus I ***DLM***	4	PHIL 102: Classics of Western Philosophy ***DLL***	3
UF 100: Intellectual Foundations	3	Math 175: Calculus II	4
		ENGL 102: Intro. to College Writing and Research	3
Semester Total	**13**	***Semester Total***	**14**

SOPHOMORE

FALL		SPRING	
CS 221: Computer Science II	3	CS 230: Ethical Issues In Computing ***CID***	3
ENGL 202: Technical Communication ***DLS***	3	CS 253: Intro. to Systems Programming	3
UF 200: Civil and Ethical Foundations	3	ECE 230/L: Digital Systems & Lab	4
PHYS 211/L: Physics I w/ Calculus & Lab or CHEM 111/L: General Chemistry I & Lab ***DLN***	4-5	PHYS 212/L: Physics II w/ Calculus & Lab or CHEM 112/L: General Chemistry II & Lab	4-5
MATH 189: Discrete Mathematics	4		
Semester Total	**17-18**	***Semester Total***	**14-15**

JUNIOR

FALL		SPRING	
CS 321: Data Structures	3	CS 361: Intro. to the Theory Of Computation	3
CS 354: Programming Languages	3	CS 441: Computer Architecture	3
ECE 330/L: Microprocessors & Lab	4	Additional CS Course*	3
MATH 360: Engineering Statistics or MATH 361: Probability and Statistics I	3	BIOL 191 or CHEM 111/L or GEOS 100 or PHY 211/L ***DLN***	*4-5*
Visual And Performing Arts Elective* ***DLV***	3	Math Elective*	3-4
Semester Total	**16**	***Semester Total***	**16-18**

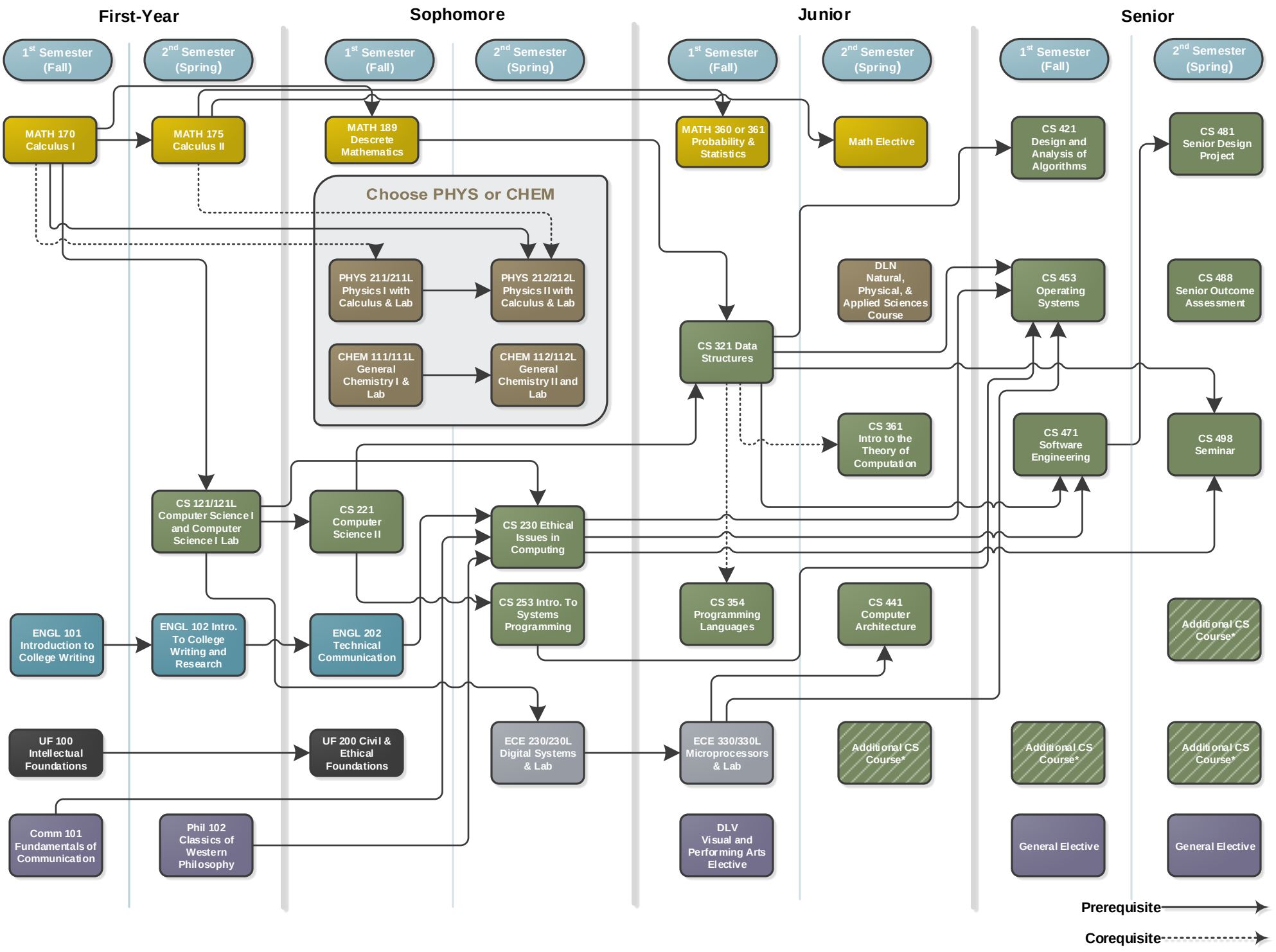
SENIOR

FALL		SPRING	
CS 453: Operating Systems	3	CS 481: Senior Design Project	3
CS 471: Software Engineering	3	CS 488: Senior Outcome Assessment	0
CS 421: Design and Analysis of Algorithms	3	Two Additional CS Courses*	6
Additional CS Course*	3	CS 498: Seminar ***FF***	1
General Elective	3	General Electives to Total 120 Credits	2-5
Semester Total	**15**	***Semester Total***	**12-15**

**SEE CATALOG FOR ADDITIONAL REQUIREMENTS*

TOTAL PROGRAM CREDITS 120

Boise State University Undergraduate Computer Science Pre-requisites, 2016-2017



Bachelor's of Science in Computer Science
Secondary Education Emphasis
Four-Year Plan of Study (2016-2017)

BOISE STATE UNIVERSITY

FIRST-YEAR

FALL		SPRING	
STEM-ED 101: Step 1: Inquiry Approaches to Teaching	1	STEM-ED 102: Step 2: Inquiry-based Lesson Design	1
ED-CIFS 201: Foundations of Education ***DLS***	3	CS 121: Computer Science I	3
ENGL 101: Intro. to College Writing	3	CS 121L: Computer Science I Lab	1
Math 170: Calculus I ***DLM***	4	Math 175: Calculus II	4
UF 100: Intellectual Foundations	3	ENGL 102: Intro. to College Writing and Research	3
Semester total	**14**	***Semester total***	**12**

SOPHOMORE

FALL		SPRING	
STEM-ED 210: Knowing and Learning in Mathematics and Science ***DLS***	3	STEM-ED: 310 Classroom Interactions	3
CS 221: Computer Science II	3	CS 253: Intro. to Systems Programming	3
UF 200: Civil and Ethical Foundations	3	ECE 230/L: Digital Systems & Lab	4
PHYS 211/L: Physics I w/ Calculus & Lab or CHEM 111/L: General Chemistry I & Lab ***DLN***	4-5	PHYS 212/L: Physics II w/ Calculus & Lab or CHEM 112/L: General Chemistry II & Lab	4-5
MATH 189: Discrete Mathematics	4	Visual and Performing Arts Elective* ***DLV***	3
Semester total	**17-18**	***Semester total***	**17-18**

JUNIOR

FALL		SPRING	
STEM-ED 220: Perspectives on Science and Mathematics ***DLL***	3	STEM-ED 350: Research Methods	3
CS 321: Data Structures	3	CS 230: Ethical Issues in Computing ***CID***	3
CS 354: Programming Languages	3	CS 361: Intro. to the Theory of Computation	3
ECE 330/L: Microprocessors & Lab	4	CS 441: Computer Architecture	3
MATH 360: Engineering Statistics or MATH 361: Probability and Statistics I	3	CS 402: Mobile Application Development	3
		BIOL 191 or CHEM 111/L or GEOS 100 or PHY 211/L ***DLN***	*4-5*
Semester total	**16**	***Semester total***	**19-20**

SENIOR

FALL		SPRING	
STEM-ED 410: Project-Based Instruction	3	STEM-ED 480: Apprentice Teaching	6
CS 453: Operating Systems	3	CS 481: Senior Design Project	3
CS 471: Software Engineering	3	CS 488: Senior Outcome Assessment	0
CS 421: Design and Analysis of Algorithms	3	Two Additional CS Courses*	6
CS 401: Introduction to Web Development	3	CS 498: Seminar ***FF***	1
Math Elective*	3-4		
Semester total	**18-19**	***Semester total***	**16**

**SEE CATALOG FOR ADDITIONAL REQUIREMENTS*

TOTAL PROGRAM CREDITS 129-132

Bachelor's of Science in Computer Science
Cybersecurity Emphasis
Four-Year Plan of Study (2016-2017)

BOISE STATE UNIVERSITY

FIRST-YEAR

FALL		SPRING	
COMM 101: Fundamentals of Communication ***DLS***	3	CS 121: Computer Science I	3
ENGL 101: Introduction To College Writing	3	CS 121L: Computer Science I Lab	1
Math 170: Calculus I ***DLM***	4	PHIL 102: Classics Of Western Philosophy ***DLL***	3
UF 100: Intellectual Foundations	3	Math 175: Calculus II	4
		ENGL 102: Introduction to College Writing and Research	3
Semester total	**13**	***Semester total***	**14**

SOPHOMORE

FALL		SPRING	
CS 221: Computer Science II	3	CS 230: Ethical Issues in Computing ***CID***	3
ENGL 202: Technical Communication ***DLS***	3	CS 253: Intro. to Systems Programming	3
UF 200: Civil and Ethical Foundations	3	ECE 230/L: Digital Systems & Lab	4
PHYS 211/L: Physics I w/ Calculus & Lab or CHEM 111/L: General Chemistry I & Lab ***DLN***	4-5	PHYS 212/L: Physics II w/ Calculus & Lab or CHEM 112/L: General Chemistry II & Lab	4-5
MATH 189: Discrete Mathematics	4		
Semester Total	**17-18**	***Semester Total***	**14-15**

JUNIOR

FALL		SPRING	
CS 321: Data Structures	3	CS 361: Intro. to the Theory of Computation	3
CS 354: Programming Languages	3	CS 441: Computer Architecture	3
ECE 330/L: Microprocessors & Lab	4	CS 332: Ethical Hacking	3
MATH 360: Engineering Statistics or MATH 361: Probability and Statistics I	3	BIOL 191 or CHEM 111/L or GEOS 100 or PHY 211/L ***DLN***	*4-5*
CS 331: Computer Security & Information Assurance	3	Math Elective*	3-4
Semester Total	**16**	***Semester Total***	**16-18**

SENIOR

FALL		SPRING	
CS 453: Operating Systems	3	CS 481: Senior Design Project	3
CS 471: Software Engineering	3	CS 488: Senior Outcome Assessment	0
CS 421: Design And Analysis Of Algorithms	3	Two Additional CS Courses*	6
CS 333: Network Security and Defense	3	CS 498: Seminar ***FF***	1
Visual and Performing Arts Elective* ***DLV***	3	General Electives To Total 120 Credits	2-5
Semester Total	**15**	***Semester Total***	**12-15**

**SEE CATALOG FOR ADDITIONAL REQUIREMENTS*

TOTAL PROGRAM CREDITS 120