

Computer Science, AS



Laramie County Community College

FRESHMAN YEAR

Fall Semester			Hrs	Spring Semester			Hrs
COLS	1000	Intro to College Success: First Year Seminar	3	COSC	1030	Computer Science I ^e	4
COSC	1010	Introduction to Computer Science ^e	4			Cultural Awareness Requirement ^a	3
MATH	2200	Calculus I ^e	4	MATH	2205	Calculus II ^e	4
		Aesthetic Analysis Requirement	3			Statistics Course ^{bc}	4
ENGL	1010	English I: Composition	3				
TOTAL			<u>17</u>	TOTAL			<u>15</u>

SOPHOMORE YEAR

Fall Semester			Hrs	Spring Semester			Hrs
ACCT	1010	Accounting I	3			US/Wyoming Constitution Requirement ^d	3
BADM	2010	Business Law I	3	ACCT	1020	Accounting II	3
COSC	2030	Computer Science II ^e	4	CO/M	1010	Public Speaking	3
		Lab Science I ^{ec}	4	COSC	2300	Discrete Structures ^e	3
						OR	
				MATH	2300	Discrete Structures	
						Lab Science II ^{ec}	4
TOTAL			<u>14</u>	TOTAL			<u>16</u>
TOTAL LCCC AS DEGREE HOURS							<u>62</u>

Successful completion of the 2+2 plan requires that a student remain continuously enrolled and graduate with the associate's degree from his or her respective community college. • This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the catalogs of their respective institutions and consult with their academic advisor to plan accordingly. • Academic plans and course schedules may need to be altered if ACT or Math Placement scores require a student to take pre-college courses (e.g., MATH 0900, 0921, or 0925) before taking required math or English courses.

Laramie County Community College requirements:

In order to graduate, students must successfully complete a minimum of 60 credit hours, 15 of which must be from Laramie County Community College, with a grade point average of 2.0 or better at course level of 1000 or higher (ENGL 1001 does not apply).

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U.

UW College of Engineering and Applied Science requirements:

Students must have a minimum cumulative GPA of 2.0 in all engineering courses for graduation. • A grade of C or higher is required for all prerequisite courses. Students must also achieve a grade of C or better in all required mathematics courses.

UW Department of Computer Science requirements:

All courses in Computer Science, Mathematics, Application Area (Big Data), and Statistics must be completed with a grade of C or better. A grade of C- is not acceptable.

Computer Science, BS

Computers & Business Concentration



University of Wyoming

JUNIOR YEAR

Fall Semester				Hrs	Spring Semester				Hrs
COSC	2150	Computer Organization ^e	3	COSC	3011	Introduction to Software Design ^e	3		
MGT	3110	Business Ethics	3	COSC	3050	Ethics for the Computer Professional ^e	1		
COSC	3020	Algorithms and Data Structures ^e	4	COSC	4820	Database Systems	3		
		Operating System Course ^f	3	FIN	3250	Corporate Finance	3		
		Science Elective I ^g	4	MGT	3210	Management & Organization	3		
						Science Elective II ^g	4		
TOTAL			<u>17</u>	TOTAL			<u>17</u>		

SENIOR YEAR

Fall Semester				Hrs	Spring Semester				Hrs
COSC	4210	Analysis & Design of Information Systems	3			USP Communication 3	C3	3	
COSC	4950	Senior Design I ^e	1	COSC	4220	Design & Implementation		3	
MKT	3210	Introduction to Marketing	3	COSC	4955	Senior Design II ^e		2	
		Computer Science Elective I ^h	3			Computer Science Elective II ^h		3	
3000+		Business Elective	3	3000+		Elective		3	
TOTAL			<u>13</u>	TOTAL			<u>14</u>		
TOTAL UW HOURS							<u>61</u>		
TOTAL UW BS DEGREE HOURS							<u>123</u>		

LCCC Computer Science Program Notes:

- a) **Cultural Awareness Requirement.** ECON 1010 (Principles of Macroeconomics) is recommended.
- b) **Statistics Course.** Choose one (1) course from: STAT 2010 (Statistical Concepts - Business), STAT 2050 (Fundamentals of Statistics), or STAT 2070 (Introductory Statistics for the Social Sciences).
- c) **Lab Science Electives** are two semesters of courses selected from a tightly coupled series. Options include:
 CHEM 1020 (General Chemistry I) **AND** CHEM 1030 (General Chemistry II)
 PHYS 1310 (College Physics I) **AND** PHYS 1320 (College Physics II)
 BIOL 1010 (General Biology I) **AND** BIOL 2022 (Animal Biology) **OR** BIOL 2023 (Biology of Plants and Fungi)
- d) **UW/Wyoming Constitutional Requirement.** Students may choose from the following courses: ECON 1200 (Economics, Law, and Government), HIST 1211 (United States to 1865), or POLS 1000 (American and Wyoming Government).

UW Computer Science - Computers & Business Concentration Program Notes:

- e) **Computer Science Core Course**
- f) **Operating Systems Course.** Chose one (1) course from the following options:
 COSC 3750 Linux Programming for Systems Applications
 COSC 4740 Operating Systems Design
 COSC 4750 Systems Programming and Management
- g) **Science Electives.** Please see the Computer Science Department web page www.uwyo.edu/cosc/undergraduate_students/cosc_degree/ for a current list of approved courses. These course selections must have a lab component and be recommended for science or engineering majors.

Transfer Recommendations and Program Notes con't on page 3.

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UW Computer Science Program Notes con't:

h) Computer Science Electives. A total of 12 hours of upper division (3000-level or above) computer science electives are required. A maximum of three (3) hours of COSC 3970 (Internship) can be included in this requirement.