Computer Science, BS
Computers & Business Concentration

University of Wyoming, 2016-17

Freshman Fall Semester			Hrs	Min Grade	Notes
		USP First-Year Seminar	3		FY
COSC	1010	Introduction to Computer Science ^ *	4	C	
MATH	2200	Calculus I ^ **	4	C	Q
		Science Series I ^ ***	4		PN
		Credit hours subtotal:	**15**		

Freshman Spring Semester			Hrs	Min Grade	Notes
		USP Communication I	3	C	C1
COSC	1030	Computer Science I ^	4	C	
MATH	2205	Calculus II ^	4	C	
		Science Series II ^ ***	4		PN
		Credit hours subtotal:	**15**		

Sophomore Fall Semester			Hrs	Min Grade	Notes
		USP Communication II	3	C	C2
ACCT	1010	Principles of Accounting I	3	C	
COSC	2030	Computer Science II ^	4	C	
COSC	2150	Computer Organization ^	3	C	
COSC	2300	Discrete Structures ^	3	C	Cross listed with MATH 2300.
		Credit hours subtotal:	**16**		

Sophomore Spring Semester			Hrs	Min Grade	Notes
		USP Human Culture	3		H
ACCT	1020	Principles of Accounting II	3	C	
COSC	3011	Introduction to Software Design ^	3	C	
COSC	3020	Algorithms and Data Structures ^	4	C	
MGT	1040	Legal Environment of Business	3	C	
		Credit hours subtotal:	**16**		

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, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

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. • University Studies Program (USP) Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

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.

Computer Science–Computer & Business Concentration Program Notes:

All computer science, math, and statistics courses must be completed with a grade of C or better. A grade of C- is not acceptable.

^ Computer Science core courses.

* Requires MATH ACT $\geq$ 25, MATH SAT $\geq$ 600, Math Placement Exam $\geq$ 4, or $\geq$ C in MATH 1400 within one year prior to the start of the course. (University standard)

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Junior Fall Semester			Hrs	Min Grade	Notes
		USP US & Wyoming Constitutions	3		V
STAT	4220	Basic Engineering Statistics ^	3	C	Can substitute STAT 2010 (Statistical Concepts), STAT 2050 (Fund of Statistics), or STAT 2070 (Intro Stats for the Social Sciences).
MGT	3110	Business Ethics	3	C	
		Operating System Course ****	3	C	
		Science Elective I ^ *****	4		
		Credit hours subtotal:	**16**		

Junior Spring Semester			Hrs	Min Grade	Notes
COSC	3050	Ethics for the Computer Professional	1	C	
COSC	4820	Database Systems	3	C	
MGT	3210	Management and Organization	3	C	
FIN	3250	Corporate Finance	3	C	
		Science Elective II ^ *****	4		
		Credit hours subtotal:	**14**		

Senior Fall Semester			Hrs	Min Grade	Notes
		USP Human Culture	3		H
COSC	4210	Analysis and Design of Information Systems	3	C	
COSC	4950	Senior Design I ^	1	C	
MKT	3210	Introduction to Marketing	3	C	
		Computer Science Elective I ******	3	C	
		Upper Division Business Elective	3	C	
		Credit hours subtotal:	**16**		

Senior Spring Semester			Hrs	Min Grade	Notes
		USP Communication III	3	C	C3
COSC	4220	Design and Implementation	3	C	
COSC	4955	Senior Design II ^	2	C	
		Computer Science Elective II ******	3	C	
		Upper Division Elective	3		
		Credit hours subtotal:	**14**		

TOTAL CREDIT HOURS: **122**

Computer Science–Computer & Business Concentration Program Notes con't:

** Requires MATH ACT ≥ 27, MATH SAT ≥ 600, Math Placement Exam ≥ 5, or ≥ C in MATH 1405 or 1450. (University standard)

*** **Science Series I & II.** Students must complete two courses from a tightly-coupled series, each of which has a lab component and recommended for science or engineering majors. Be aware that the first course in each series has a Math Placement Exam or course prerequisite requirement; please consult the course descriptions in the *University Catalog* for specific information. Courses can be selected from:

CHEM 1020 (General Chemistry I) & CHEM 1030 (General Chemistry II)
CHEM 1050 (Advanced General Chemistry I) & CHEM 1060 (Advanced General Chemistry II)
LIFE 1010 (General Biology I) & LIFE 2022 (Animal Biology) or LIFE 2023 (Biology of Plants & Fungi)
PHYS 1110 (General Physics I) & PHSY 1120 (General Physics II)
PHYS 1210 (Engineering Physics I) & PHYS 1220 (Engineering Physics II)
PHYS 1310 (College Physics I -) & PHYS 1320 (College Physics II)

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Computer Science–Computer & Business Concentration Program Notes con't:

****** 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

******* 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.

******** Computer Science Electives.** A total of six (6) 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.