

# Computer Science Computer Science Concentration, B.S.



## University of Wyoming

Freshman Fall Semester			Hrs	Min	Grade	Notes
COSC	1010	Introduction to Computer Science	4		C	
MATH	2200	Calculus I	4		C	
		Science Series I	4			Note 1
	1101	First Year Seminar	3			USP FYS requirement course, any department
Credit hours subtotal:			<b>15</b>			

Freshman Spring Semester			Hrs	Min	Grade	Notes
COSC	1030	Computer Programming I	4		C	
MATH	2205	Calculus II	4		C	
		Science Series II	4			Note 1
		Communications Course I	3		C	USP COM1 requirement course
Credit hours subtotal:			<b>15</b>			

Sophomore Fall Semester			Hrs	Min	Grade	Notes
COSC	2030	Computer Programming II	4		C	
COSC	2150	Computer Organization	3		C	
COSC	2300	Discrete Structures	3		C	Cross listed with MATH 2300
		Humanities Course I	3			USP H requirement course
		Communications Course II	3		C	USP COM2 requirement course
Credit hours subtotal:			<b>16</b>			

Sophomore Spring Semester			Hrs	Min	Grade	Notes
COSC	3011	Software Design	3		C	
COSC	3020	Algorithms and Data Structures	4		C	
MATH		MATH Elective I	3		C	Note 2
		Humanities Course II	3			USP H requirement course
		General Elective	3			1000 level or higher, any department and Note 3
Credit hours subtotal:			<b>16</b>			

### Notes:

1. Must complete two course from a tightly-coupled series. Either CHEM 1020 & 1030 or CHEM 1050 & 1060 or PHYS 1110 & 1120 or PHYS 1210 & 1220 or PHYS 1310 & 1320 or LIFE 1010 & (2022 Or 2023). The CHEM, PHYS, and LIFE 1010 courses all meet the USP PN requirement.
2. Total of 6 hours of additional mathematics course work. Must choose MATH courses above Calculus II or STAT courses 3000 level and above. Exceptions: cannot count MATH 2350, MATH 2355, MATH 4000, or any variable length credit courses toward this requirement.
3. All Computer Science and Mathematics courses require a minimum grade of C.

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Junior Fall Semester			Hrs	Min	Grade	Notes
COSC	3015	Functional Programming	3		C	
COSC	4740	Operating Systems	4		C	
COSC		COSC Elective I	3		C	Note 4
		Science Elective I	4			Note 5
		US & Wyoming Constitution	3			USP V requirement course
Credit hours subtotal:			<b>17</b>			

Junior Spring Semester			Hrs	Min	Grade	Notes
COSC	3050	Ethics for the Computer Professional	1		C	
COSC		COSC Elective II	3		C	Note 4
MATH		MATH Elective II	3		C	Note 2
		Science Elective II	4		C	Note 5
		Upper Division Elective I	3			Notes 3 and 6
Credit hours subtotal:			<b>14</b>			

Senior Fall Semester			Hrs	Min	Grade	Notes
COSC	4950	Senior Design I	1		C	
COSC		Systems Course	3		C	Note 7
COSC		Theory Course	3		C	Note 8
STAT	4220	Engineering Statistics	3		C	Note 9
		Communications Course III	3			USP COM3 requirement course
Credit hours subtotal:			<b>13</b>			

Senior Spring Semester			Hrs	Min	Grade	Notes
COSC	4955	Senior Design II	2		C	
COSC		Programming Language Course	3		C	Note 10
COSC		COSC Elective III	3		C	Note 4
COSC		COSC Elective IV	3		C	Note 4
		Upper Division Elective II	3			Notes 3 and 6
Credit hours subtotal:			<b>14</b>			

**TOTAL CREDIT HOURS: 120**

### Notes:

- Total of 12 hours of Upper Division COSC electives. At most 3 hours of COSC 3970 (Internship) can be counted toward this requirement.
- See Department web pages for a current list of approved courses. If the USP PN requirement has not already been met, choose courses which are also approved for the USP PN.
- 3000 level or higher course, any department.
- Choose one of COSC 4760: Networks or COSC 4820: Databases.
- Choose one of COSC 4100: Foundations or COSC 4200: Computability
- Choose one of STAT 2010/2050/2070/4220.
- Choose one of COSC 4780: PPL or COSC 4785: Compilers.