

# Computer Science International Engineering 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	
	1101	First Year Seminar	3		USP FYS requirement course, any department
		Foreign Language I	4		Note 1
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	
		Communications Course I	3	C	USP COM1 requirement course
		Foreign Language II	4		Note 1
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
		Science Series I	4		Note 2
		Foreign Language III	4		Note 1
Credit hours subtotal:			<b>18</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 3
		Science Series II	4		Note 2
		Foreign Language IV	4		Note 1
Credit hours subtotal:			<b>18</b>		

### Notes:

1. Must complete 4 semesters of the same foreign language.
2. 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.
3. 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.

# Computer Science International Engineering Concentration, B.S.



## University of Wyoming

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

Junior Spring Semester			Hrs	Min	Grade	Notes
SEMESTER ABROAD						Note 5
COSC	3050	Ethics for the Computer Professional	1		C	
COSC		COSC Elective I	3		C	Note 6
COSC		COSC Elective II	3			Note 6
		Science Elective II	4		C	Note 4
		Upper Division Elective I	3			3000 level or higher course, any department and Note 7.
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 8
COSC		Theory Course	3		C	Note 9
STAT	4220	Engineering Statistics	3		C	Note 10
		Communications Course II	3		C	USP COM2 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 11
COSC		COSC Elective III	3		C	Note 6
COSC		COSC Elective IV	3		C	Note 6
		Communications Course III	3			USP COM3 requirement course
		Upper Division Elective II	3			3000 level or higher course, any department.
Credit hours subtotal:			<b>17</b>			

**TOTAL CREDIT HOURS: 127**

### Notes:

- 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.
- International Engineering students must complete a semester of study abroad, normally in their junior year.
- Total of 12 hours of Upper Division COSC electives. At most 3 hours of COSC 3970 (Internship) can be counted toward this requirement.
- All Computer Science and Mathematics courses require a minimum grade of C.
- 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.