Curriculum Guide for AS to BS Computer Science at WCU

Freshman/First Year

1st Semester* Fall | **2nd Semester Spring**

CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes	CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes
ENG 111	ENGL 101	C1	3		ENG 112	ENGL 202	C1	3	
MAT 171	MATH 130	C2	4		COM 231	COMM 201	C3	3	Preferred
History	History	P3	3	Preferred	Social/Behavioral Sciences	Social Sciences	P1	3	
Humanities/Fine Arts	Humanities	P4	3		MAT 172	MATH 146		4	
HEA 110/PED 110/Other Elective	Wellness	C4	3		BIO 111/BIO 112/CHM 151/CHM 152/GEL 113/ GEL 120/PHY 151/PHY 152/PHY 251/PHY 252	BIOL 140/BIOL 141/ CHEM 139/CHEM 140/GEOL 155/ GEOL 150/PHYS 130/PHYS 131/PHYS 230/PHYS 231	C5	4	Required
ACA 122	USI 130		1						
Total Credit Hours			17		Total Credit Hours			17	

*This assumes placement into college level courses. This is only meant to be a guide. Please see your academic advisor to develop your individual plan.

*Computer Science is unlikely to be completed in a 4 year time span.

Sophomore/Second Year

3rd Semester Fall | **4th Semester Spring**

CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes	CC Course	WCU Course Equivalent	LS Cat.	Credit Hours	Required/Notes
BIO 111/BIO 112/CHM 151/CHM 152/GEL 113/ GEL 120/PHY 151/PHY 152/PHY 251/PHY 252	BIOL 140/BIOL 141/CHEM 139/ CHEM 140/GEOL 155/ GEOL 150/PHYS 130/PHYS 131/PHYS 230/PHYS 231	C5	4	Required	Social Science (Global Perspective)	World Cultures	P6	3	
CSC 151 OR 121	CS 150 (sequence required)		4	Required	CSC 251 OR 221	CS 150 (sequence required)		4	Required
MAT 271	MATH 153		4	Required	MAT 272	MATH 255		4	
Elective			3		MAT 252	MATH 270		3	
Total Credit Hours			15		Total Credit Hours			14	

*If you cannot take CSC 151 &251 OR CSC 121 & 221, plan for more time at WCU.

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Other required hours=blue shading

Junior/Third Year (at WCU)

For 5 and 6 semester plans, visit https://www.wcu.edu/learn/departments-schools-colleges/cas/science-and-math/mathcsdept/bs-computer-science/cs-transfer-students-semester-plans.aspx

We encourage students in the North Carolina Community College System and elsewhere to consider transferring into the Computer Science major at Western Carolina University. Feel free to contact the Department of Mathematics and Computer Science by phone at 828-227-7245 or by email at kbdelaet@wcu.edu.

Fall semester				**Spring Semester**			
CS 151	Problem Solving & Programming II	4		CS 253	Software Development	3	
MATH 250	Logic & Proof	3		CS 352	Programming Languages	3	
MATH 256	Calculus III (if taking MATH 370 and/or getting MATH minor)	4		MATH 310	Discrete Structures	3	
	Total credit hours	7-11			Total credit hours	9	

Senior/Fourth Year

Fall semester				**Spring Semester**			
CS 325	Information Security I	3		CS 263	Software Engineering	3	
CS 350	Computer Organization	3		CS 353	Professional Ethics in Computing	2	
CS 351	Data Structures & Algorithms	4		CS 370	Operating systems	3	
CS elective		3		CS 453	Database systems	3	
				CS 495	Capstone I	2	
	Total credit hours	13			Total credit hours	13	

Fifth Year

Fall semester			
CS 465	Computer Networking	3	
CS 496	Capstone II	2	
CS elective		3	
	Total credit hours	8	

Total Program Credit Hours   120

Reminder: 30 hours of 300-400 level courses must be taken at WCU.

Reminder: You must take enough electives to earn 120 total credit hours.

More Information on B.S. Computer Science

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Other required hours=blue shading