

## 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	

Suggested Course Sequence to transfer from NCCCS

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				Total Credit Hours			
15				14			

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

Suggested Course Sequence to transfer from NCCCS

**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](mailto: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	12	

**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	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	

Suggested Course Sequence to transfer from NCCCS

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.

<http://www.wcu.edu/academics/departments-schools-colleges/cas/casdepts/mathcsdept/mathcsacadprogs/computer-science/bs-computer->