

Curriculum Guide for AS to BS Chemistry: Premedical/Biomedical Science and Technology Concentration 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 146	C2	4		COM 231	COMM 201	C3	3	Preferred
History	History	P3	3	Preferred	CHM 152	CHEM 140		4	Required
Humanities/Fine Arts	Humanities	P4	3		MAT 172	MATH 145		4	
CHM 151	CHEM 139	C5	4	Required	Social/Behavioral Sciences	Social Sciences	P1	3	
ACA 122	USI 130		1						
Total Credit Hours					Total Credit Hours				
18					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.

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
HEA 110/PED 110/Other Elective	Wellness	C4	3		Social/Behavioral Sciences	Social Sciences	P1	3	
MAT 271/Other Elective	MATH 153		4	Required	MAT 272/Other Elective	MATH 255		4	Required
Social Science (Global Perspective)	World Cultures	P6	3		Other Elective	Elective		3	
BIO 111/Gen. Ed/UGETC Elective	BIO 140	C5	4	Required	BIO 112/Gen. Ed/UGETC Elective	BIO 141		4	Required
Total Credit Hours					Total Credit Hours				
14					14				

Suggested Course Sequence to transfer from NCCCS
Junior/Third Year (at WCU)

5th Semester		Fall		6th Semester		Spring			
WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes		
CHEM 232	Quantitative Analysis	4		CHEM 242	Organic Chemistry II	4			
CHEM 241	Organic Chemistry I	4		CHEM 352	Physical Chemistry I	3			
BIO 240	Introduction to Genetics	4		CHEM 371	Physical Chemistry Lab	2			
PHYS 130/PHYS 231	Intro. Physics I/Gen. Physics I	4		PHYS 131/PHYS 231	Intro. Physics II/Gen. Physics II	4			
				Gen. Elective		3			
Total Credit Hours				16		Total Credit Hours		16	

Senior/Fourth Year

7th Semester		Fall		8th Semester		Spring			
WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes		
CHEM 361	Principles of Biochemistry	3		CHEM 495	Seminar in Chemistry	1			
CHEM 472	Chemical Syntheses	4		CHEM 370	Instrumental Analysis I	4			
BIOL/CHEM Elective		3		BIO 333	Cell and Molecular Biology	4			
CHEM 321	Inorganic Chemistry	3		Gen. Elective		4			
Total Credit Hours				13		Total Credit Hours		13	

Total Credit Hours 120

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

<http://www.wcu.edu/academics/departments-schools-colleges/cas/casdepts/chemphys/academic-programs/chem/index.asp>