

Curriculum Guide for AS to B.S.Ed. Science: Physics 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	Required	COM 231	COMM 201	C3	3	Preferred
History	History	P3	3	Preferred	MAT 172	MATH 145		4	
Humanities/Fine Arts	Fine & Performing Arts	P5	3		BIO 112	BIOL 141		4	Required
BIO 111	BIOL 140	C5	4	Required	Social/Behavioral Science	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
EDU 216/Other Elective	EDCI 201		3	Required	CHM 152	CHEM 140		4	Required
MAT 271	MATH 153		4	Required	Social/Behavioral Sciences	Social Science	P1	3	
CHM 151	CHEM 139	C5	4	Required	HEA 110/PED 110/Other Electives	Wellness	C4	3	
Social Science (Global Perspective)	World Cultures	P6	3		Humanities/Fine Arts	Humanities	P5	3	
Total Credit Hours					Total Credit Hours				
14					13				

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
SCI 150	Intro to Secondary Science Education	1		CHEM 241	Organic Chemistry I	4	
MATH 255	Calculus II	4		GEOL 155	Historical Geology	4	
GEOL 150	Methods in Geology	4		PHYS 231	General Physics II	4	
PHYS 230	General Physics I	4		SCI 301	Nature & Science	3	
PSY 323	Psychology Applied to Learning and Teaching	3		EDSE 322	Principles & Methods of Teaching	2	
Total Credit Hours				Total Credit Hours			
16				17			

PHYS 380	Research in Physics	3	Summer
Gen. Elective		3	Summer

Senior/Fourth Year

7th Semester		Fall		8th Semester		Spring	
WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes
SCI 422	Principles & Methods of Science Education	3		SCI 491	Supervised Student Teaching in Science	3	
PHYS 310	Modern Physics	3		EDSE 490	Supervised Student Teaching	6	
SPED 339	Designing Classrooms as Responsive Learning Communities	3		EDSE 495	Seminar	3	
PHYS 325/CHEM 352	Thermodynamics/Physical Chemistry I	4					
PHYS 322	Optics	3					
PHYS 360	Laboratory Physics	2					
Total Credit Hours				Total Credit Hours			
18				12			

Total Credit Hours 131

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

<http://www.wcu.edu/academics/departments-schools-colleges/cas/casdepts/biology/biundergrad/ssed/index.asp>

rev. 9/2/14

UGETC=purple shading

Gen. Ed.=beige shading

Other required hours=blue shading