

Curriculum Guide for AS to BS Mathematics: Actuarial Science at WCU

Freshman/First Year

1st Semester*					2nd Semester				
Fall					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	Natural Science	Physical & Biological Sciences		4	
Humanities/ Fine Arts	Humanities	P4	3		MAT 172	MATH 146		4	
Natural Science	Physical & Biological Sciences	C5	4		ECO 251	ECON 231	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					4th Semester				
Fall					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		ACC 120	ACCT 251		3	
Gen. Ed./UGETC Elective		C5	3	Different science if not earning AA	Gen. Ed./UGETC Elective		P5	3	Fine & Performing Arts if not earning AA
Total Credit Hours					Total Credit Hours				
13					13				

Junior/Third year (at WCU)

5th Semester				6th Semester					
Fall				Spring					
WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes		
MATH 250	Intro to Logic and Proof	3		MATH 310	Discrete Structures	3			
MATH 256	Calculus III	4		MATH 340	Intro to Scientific Computing	3			
MATH 270/370	Stats I/ProbStat I	3		MATH 373/471	Exam FM/Exam P	3			
Actuarial Elective	(FIN 305)	3		Actuarial Elective	(ECON 232 or FIN 406)	3			
Minor class		3		Minor class		3			
Total Credit Hours				16	Total Credit Hours				15

Senior/Four Year

7th Semester				8th Semester					
Fall				Spring					
WCU Course	Course Title	Credit Hours	Notes	WCU Course	Course Title	Credit Hours	Notes		
MATH 270/370	Stats I/ProbStat I	3		MATH 373/471	Exam FM/Exam P	3			
MATH 362	Linear Algebra I	3		Actuarial Elective	(MATH 375 or MATH 470)	3			
MATH 479	Capstone: Seminar	2		Minor class		3			
Actuarial Elective	(ECON 232 or FIN 406)	3		Minor class		3			
Minor class		3		Minor class		3			
Total Credit Hours				14	Total Credit Hours				15

Total Credit Hours 121

A minor is not required but an Economics or Finance minor can be earned with as few as two additional classes, depending on actuarial electives selected.

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

[More Information on B.S. Mathematics](#)