

WCU Master of Science in Mathematics (Pure Concentration) Graduate Advising Sheet



Student Name: _____ WCU ID # _____ Semester accepted _____

Core Curriculum Courses (12 Credit Hours)	Hours	Sem.	Year	Grade
MAT 513: Linear Algebra	3			
MAT 515: Algebra I	3			
MAT 543: Theory of Differential Equations	3			
MAT 545: Analysis I	3			
Total Core Credit Hours	12			

Concentration Courses (12 Credit Hours)	Hours	Sem.	Year	Grade
MAT 535: Topology	3			
<i>Students must take TWO of the following three courses.</i>				
MAT 516: Algebra II				
MAT 536: Algebraic Topology				
MAT 546: Analysis II				
<i>Students must take ONE additional course from the following list:</i>				
MAT 514: Theory of Numbers	MAT 532: Geometry I	MAT 575: Complex Analysis I		
MAT 516: Algebra II	MAT 536: Algebraic Topology			
MAT 521: Discrete Mathematics and Graph Theory	MAT 546: Real Analysis II			
Additional Concentration Course:	3			
Total Concentration Credit Hours	12			

Students must choose the thesis option OR the non-thesis option.

Free Electives (9 Credit Hours)		Hours	Sem.	Year	Grade
NON-THESIS OPTION	THESIS OPTION				
Free Elective:	Free Elective:	3			
Free Elective:	MAT 609: Thesis I	3			
Free Elective:	MAT 610: Thesis II	3			
Total Elective Credit Hours		9			

Free Electives may be chosen from the following list of courses.

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| MAT 503: History of Mathematics | MAT 546: Real Analysis II | STA 506: Mathematical Statistics II |
| MAT 514: Theory of Numbers | MAT 548: Industrial Mathematics | STA 511: Intro Stat Computing & Data Management |
| MAT 516: Algebra II | MAT 552: Operations Research | STA 512: Principles of Experimental Analysis |
| MAT 517: Topics in Algebra | MAT 553: Stochastic Modeling | MTE 507: Foundations of Secondary Math Education |
| MAT 521: Discrete Mathematics and Graph Theory | MAT 554: Scientific Computing | MTE 508: Middle School Math |
| MAT 532: Geometry I | MAT 575: Complex Analysis I | MTE 512: High School Math |
| MAT 533: Geometry II | MAT 595: Topics in Mathematics | MTE 604: Research Seminar |
| MAT 535: Topology | STA 501: Methodologies in Applied Statistics | |
| MAT 536: Algebraic Topology | STA 505: Mathematical Statistics I | |

Other classes, e.g. CS courses, may be substituted with permission of Program Coordinator

Total Degree Credit Hours	33	
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Capstone: Approval Date for Exit Electronic Portfolio or Masters Thesis	
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Note: To track their individual degree progress, students are advised to access their Degree Progress Report (DPR) via MyWCU and consult their Graduate Coordinator. For more information, visit wcupa.edu/DegreeProgressReport.