

WCU Master of Science in Mathematics (Math Education 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 |
|-------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------|------|-------|
| STA 505: Mathematical Statistics I | 3 | | | |
| MTE 512: High School Math – Curriculum, Instruction, & Assessment | 3 | | | |
| <i>Students must take ONE of the following two courses (indicate choice by entering hours).</i> | | | | |
| MAT 516: Algebra II | | | | |
| MAT 546: Analysis II | | | | |
| <i>Students must take ONE additional course from the following list:</i> | | | | |
| MAT 503: History of Mathematics | MAT 521 Discrete Mathematics and Graph Theory | STA 501: Methodologies in Applied Statistics | | |
| MAT 514: Theory of Numbers | MAT 532: Geometry I | STA 506: Mathematics Statistics 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 | | | |
| 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

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|------------------------------------|-----------|
| Total Required 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.