# MIDDLE GRADES MATHEMATICS, BACHELOR OF SCIENCE (730)

**Program Coordinator**
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A major in middle grades mathematics is for students who plan to teach mathematics in grades 5-9 only.  The degree requires a second major in Science and Mathematics education (reference number 774). Upon successful completion of both majors, the student will receive a Bachelor of Science degree. In addition to middle grades mathematics certification, students may earn dual certification in Middle School Science. Students interested in teacher certification should also contact the SKyTeach Office, Kelly Thompson Hall 1011A, 270-745-3900 or visit www.wku.edu/skyteach (https://www.wku.edu/skyteach/).

## Program Requirements (34 hours)

A baccalaureate degree requires a minimum of 120 unduplicated semester hours. More information can be found at www.wku.edu/registrar/degree_certification.php. (https://www.wku.edu/registrar/degree_certification.php)

Students who began WKU in the Fall 2014 and thereafter should review the Colonnade requirements located at: https://www.wku.edu/colonnade/colonnaderequirements.php. (https://www.wku.edu/colonnade/colonnaderequirements.php)

| Code | Title | Hours |
|---|---|---|
| MATH 136 | Calculus I | 4 |
| MATH 183 | Introductory Statistics | 3 |
| or STAT 301 | Introductory Probability and Applied Statistics | |
| MATH 205 | Number Systems and Number Theory for Teachers | 3 |
| MATH 206 | Fundamentals of Geometry for Teachers | 3 |
| MATH 302 | Introduction to Advanced Mathematics for Middle Grades Teachers | 3 |
| or MATH 310 | Introduction to Discrete Mathematics | |
| MATH 304 | Functions, Applications and Explorations | 3 |
| MATH 308 | Rational Numbers and Data Analysis for Teachers | 3 |
| MATH 403 | Geometry for Elementary and Middle Grades Teachers | 3 |
| or MATH 323 | Geometry I | |
| MATH 411 | Problem Solving for Elementary and Middle Grades Teachers | 3 |
| or MATH 421 | Problem Solving for Secondary Teachers | |
| MATH 413 | Algebra and Technology for Middle Grades Teachers | 3 |
| MATH 490 | Seminar in Middle Grades Mathematics | 3 |
| or MATH 498 | Senior Seminar | |
| **Total Hours** | | **34** |

Students must attain a grade of "C" or better in each required course and must have a 2.5 GPA overall in required mathematics courses.

## Finish in Four Plan

**First Year**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| MATH 136 | 4 | MATH 183 | 3 |
| SMED 101 | 3 | MATH 205 | 3 |
| ENG 100 | 3 | SMED 102 | 3 |
| Colonnade: Natural & Physical Sciences | 3 | COMM 145 | 3 |
| Colonnade: Arts & Humanities | 3 | Colonnade: Social & Behavioral | 3 |
| | **16** | | **15** |

**Second Year**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| MATH 302 | 3 | MATH 206 | 3 |
| MATH 308 | 3 | MATH 304 | 3 |
| SMED 310 | 3 | SMED 320 | 3 |
| ENG 200 | 3 | Colonnade: Natural & Physical Sciences with Lab | 3 |
| World Language, if needed OR General Elective | 3 | World Language, if needed OR General Elective | 3 |
| | **15** | | **15** |

**Third Year**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| MATH 411 | 3 | MATH 403 | 3 |
| MATH 413 | 3 | SMED 360 | 3 |
| SMED 340 | 3 | ENG 300 | 3 |
| Colonnade: Connections (Social & Cultural) | 3 | Colonnade: Connections (Local to Global) | 3 |
| Elective | 3 | Elective | 3 |
| | **15** | | **15** |

**Fourth Year**

| Fall | Hours | Spring | Hours |
|---|---|---|---|
| MATH 490 | 3 | SMED 489 | 3 |
| SMED 470 | 3 | MGE 490 | 10 |
| Colonnade: Connections (Systems) | 3 | | |
| Elective | 3 | | |
| Elective(s) | 4 | | |
| | **16** | | **13** |

**Total Hours 120**