

**Advanced Mathematics Content Mastery**

**Double Degree and Master of Science**

The purpose of this form is to demonstrate competence in the above field. Complete this form digitally and submit with your application. Students are required to complete at least 49 credits of content mastery courses and at least 8 elective credits within their career area (degree).

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

A cumulative 3.0 GPA is preferred on all required courses. All content mastery courses must be taken on an A-F basis; no P/N or S/U grades accepted for content mastery courses. Grades below C- are not accepted.

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| **Standard/Outcome** | **Examples of OSU courses that satisfy standard** | **Course Designator & Number** | **Credits** | **Year/Term** | **Grade** |
| **Standard 1:** Calculus  **12 credits** | MTH 251\*, 252, 254 |  |  |  |  |
| **Standard 2:** Discrete Mathematics/Mathematics Software  **3 credits** | MTH 355 |  |  |  |  |
| **Standard 3:** Statistics  **4 credits** | ST 201 **AND** ST 202  **OR** ST 351 |  |  |  |  |
| **Standard 4:** Probability  **3 credits** | MTH 361 |  |  |  |  |
| **Standard 5:** Geometry  **3 credits** | MTH 338 (WIC) |  |  |  |  |
| **Standard 6:** Linear Algebra  **3 credits** | MTH 341 |  |  |  |  |
| **Standard 7:** Abstract Algebra  **3 credits** | MTH 343 |  |  |  |  |
| **Standard 8:** Algebraic and Geometric Transformations\*\*  **9 credits** | MTH 491, 492, 493\*\* |  |  |  |  |
| **Standard 9:** Math Electives  **6 credits** | **Choose a minimum of six credits:** MTH253, 255, 256, 306, Any Statistics (ST) or Engineering Courses |  |  |  |  |
| **Standard 10:** Math Education  **DD students: 3 credits**  **MS students: 6 credits** | **DD students:** SED 414(Secondary Section)  **OR**  **MS students:** SED 412 **AND** SED 414 (Secondary Section) **OR** SED 416 |  |  |  |  |

\*Meets Baccalaureate Core Requirement Note: 1 Semester hour = 1 ½ Quarter hours

\*\*The standard 8 sequence is unique to OSU and may be taken during the program to satisfy the 9 credits of graduate content course requirement for MS licensure program.

If you have questions about this form, please contact Carol McKiel at 541-737-1546.