

Bachelor of Science — Mathematics: Mathematics Education Concentration

<p><u>Wright State Core—42 hours</u></p> <p>Element 1 Communication ENG 1100 ENG 2100</p> <p>Element 2 Mathematics MTH2300 Calculus I</p> <p>Element 3 Global Traditions ED 2600 Choose one History course</p> <p>Element 4 Arts/Humanities Choose one course</p> <p>Element 5 Social Science ED 2700 EDS 2900</p> <p>Element 6 Natural Science PHY 2400/2400L General Physics I/Lab PHY 2410/2410L General Physics II/Lab</p> <p>Additional Core Courses MTH 2310 Calculus II ED 2800</p> <p>Multicultural Competence ED 2600 EDS 2900</p> <p>Writing Across the Curriculum ED 2600 EDS 2900</p> <p>Note: Students who intend to seek AYA: Integrated Mathematics licensure in the state of Ohio should apply for admission to the licensure program in the College of Education and Human Services once they have successfully completed all of the admission requirements**. Once admitted to the licensure program, students may take AYA-mathematics licensure courses, as determined by the Teacher Education Department. While students may earn a B.S. in Mathematics with a concentration in Mathematics Education without completing the licensure pathway, they will <i>not</i> be licensed to teach. Students choosing not to pursue licensure will replace the 4000-level ED courses with two department-approved mathematics courses and general elective hours.</p> <p>** All of ED2600/2650/2700/2750/EDS2900 and <u>one</u> of MTH3450/4460/STT3420 and are required before applying for admission to the CEHS licensure program.</p>	<p><u>Departmental Requirements—41 hours</u></p> <p>Core Department Requirements*</p> <p>MTH 2320 Calculus III MTH 2330 Differential Equations OR MTH 2350 Differential Equations with Matrix Algebra MTH 2530 Elementary Linear Algebra MTH 2800 Writing Mathematical Proofs MTH 4310 Real Variables I MTH 4510 Modern Algebra I</p> <p>Concentration Requirements*</p> <p>MTH 3450 Geometry for MS Teachers MTH 4400 History of Mathematics MTH 4460 Mathematical Modeling for MS Teachers MTH 4710 Geometry MTH 4910 High School Mathematics from an Advanced Perspective STT 3420 Probability and Statistics for MS Teachers STT 3600 Applied Statistics I</p> <p><u>Related Course Requirements – 6 hours</u></p> <p>ED 2650, 2750 Field Experiences CS 1150/L or CS 1160/L or CS 1180/L</p> <p><u>Additional Requirements – 31 hours</u></p> <p>Option 1: AYA Integrated Mathematics Licensure Professional Licensure Requirements—25 hours General Electives—6 hours</p> <p>Option 2: Non licensure Two mathematics department-approved electives—6 hours General Electives—25 hours</p> <p>Total Hours: 120</p> <p>*Some MTH/STT courses require a C or better to complete the licensure program—See GPS (Graduation Planning Strategy)</p> <p>Department-Approved Electives for Non-licensure students: MTH 3060, 3260, 3320, 3330, 4070, 4150, 4240, 4260, 4290, 4320, 4520, 4550, 4570, 4810, 4820; STT 3610, 4610, 4620, 4660, 4670</p>
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