



Chemistry and Mathematics with Option to Add Science

Name: _____ Student ID Number: _____

Candidates also complete a secondary education professional program. Grade required for endorsement courses: C (2.0) or better. Course substitutions **must be clearly noted below**.

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| <p>Chemistry and Mathematics</p> <p><input type="checkbox"/> Choose one of the following series: CHEM 161 - General Chemistry I CHEM 162 - General Chemistry II CHEM 163 - General Chemistry III CHEM 333 - Analytical Chemistry OR CHEM 175 - General Chemistry I, Honors CHEM 176 - General Chemistry II, Honors CHEM 225 - General Chemistry III, Honors</p> <p><input type="checkbox"/> CHEM 461 - Physical Chemistry <input type="checkbox"/> CHEM 462 - Physical Chemistry <input type="checkbox"/> Choose either option A or B: Option A: CHEM 251 - Elementary Organic Chemistry CHEM 375 - Elements of Biochemistry Option B: CHEM 351 - Organic Chemistry CHEM 352 - Organic Chemistry CHEM 353 - Organic Chemistry CHEM 354 - Organic Chemistry Laboratory I <u>and</u> choose either: CHEM 375 – Elements of Biochemistry OR CHEM 471 - Biochemistry I ◇ CHEM 472 - Biochemistry II CHEM 473 - Molecular Biology ◇</p> <p><input type="checkbox"/> Choose either: MATH 124 - Calculus and Analytic Geometry I ◇ <u>and</u> MATH 125 - Calculus and Analytic Geometry II OR MATH 134 - Calculus I Honors ◇ <u>and</u> MATH 135 - Calculus II Honors OR MATH 138 - Accelerated Calculus</p> <p><input type="checkbox"/> Choose either: MATH 204 - Elementary Linear Algebra <u>and</u> MATH 331 - Ordinary Differential Equations OR MATH 203 - Linear Algebra and Differential Equations <u>and</u></p> | <p><input type="checkbox"/> MATH 224 - Multivariable Calculus and Geometry I <input type="checkbox"/> MATH 309 - Introduction to Proof in Discrete Mathematics <input type="checkbox"/> MATH 360 - Euclidean and Non-Euclidean Geometry <input type="checkbox"/> MATH 419 - Historical Perspectives of Mathematics <input type="checkbox"/> MATH 483 - Methods of Teaching Secondary Mathematics <input type="checkbox"/> At least two of the following: MATH 307 - Mathematical Computing MATH 341 - Probability and Statistical Inference MATH 410 - Mathematical Modeling <input type="checkbox"/> PHYS 161 - Physics with Calculus I <input type="checkbox"/> PHYS 162 - Physics with Calculus II <input type="checkbox"/> PHYS 163 - Physics with Calculus III <input type="checkbox"/> SCED 370 - Science and Society <input type="checkbox"/> SCED 481 - Fundamentals of Teaching Science <input type="checkbox"/> SCED 491 - Methods in Secondary Education for Science</p> <p><input type="checkbox"/> NES Chemistry Test Code 306 <input type="checkbox"/> NES Mathematics Test Code 304</p> <p>Add Science (Optional) You can add a science add-on endorsement by passing the NES Science Test Code 311 (Pathway 1). You can be recommended by WWU, waive the OSPI fee, and get test preparation through taking the following coursework:</p> <p><input type="checkbox"/> One course from: o ASTR 103 - Intro to Astronomy o ASTR 113 - Sun, Moon, and Planets <input type="checkbox"/> BIOL 204 - Introduction to Evolution, Ecology and Biodiversity <input type="checkbox"/> BIOL 205 - Introduction to Cellular and Molecular Biology <input type="checkbox"/> BIOL 206 - Introduction to Organismal Biology <input type="checkbox"/> GEOL 211 - Physical Geology <input type="checkbox"/> GEOL 212 - Historical Geology <input type="checkbox"/> NES Science Test Code 311</p> |
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| MATH 303 - Linear Algebra and Differential Equations II | |
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◇ These classes at WWU have associated prerequisites not listed in the above endorsement requirements. When planning your course of study, please attend to these. You are encouraged to talk with an [advisor](#) about how to do this.

- CHEM 471: BIOL 205
- CHEM 473: BIOL 321 or BIOL 323
- MATH 124: MATH 115 or MATH 118 with C- or better or suitable assessment score.
- MATH 134: MATH 115 or MATH 118 with A or better or suitable assessment score

Outstanding Courses:

Endorsement Advisor Signature / Date