WESTERN WASHINGTON UNIVERSITY

Woodring College of Education
Chemistry and Physics - Qualifying
Endorsement Evaluation
2009 – 2010 Academic Year

Name:_____ Student ID Number: _____

Teacher candidates must also complete a secondary education professional program. Endorsement courses require a cumulative GPA of 2.5 or better and a grade of C (2.0) or better for individual courses. C**ourse substitutions or waivers must be clearly noted.**

Completed ✓	**Major: Chemistry/Physics - Secondary (98-116 credits) or approved equivalent**
	Chemistry: ☐ CHEM 121, 122, 123 General Chemistry I, II, III (14) *and* CHEM 333 Analytical Chemistry (5); *or* ☐ CHEM 126, 126, 225 General Chemistry Honors (15)
	Option A ☐ CHEM 251 Elementary Organic Chemistry (5) ☐ CHEM 375 Elements of Biochemistry (4) *or* *Option B* ☐ CHEM 351, 352, 353 Organic Chemistry I, II, III (11) ☐ CHEM 354 Organic Chemistry Laboratory (2) ☐ CHEM 375 Elements of Biochemistry (4) *or* the following three courses: ❑ CHEM 471, 472 Molecular Biology and Biochemistry (6) ❑ CHEM 473 Molecular Biology (3)
	☐ CHEM 461 Physical Chemistry I (4) ☐ CHEM 462 Physical Chemistry II (4)
	Physics and Astronomy: ☐ PHYS 121, 122 Physics with Calculus I, II (10) ☐ PHYS 123 Electricity and Magnetism (5) ☐ PHYS 219 Principles of Relativity (3) ☐ PHYS 223 Waves and Optics (3) ☐ PHYS 224 Modern Physics I (4) ☐ PHYS 233 Waves and Optics Laboratory (1) ☐ PHYS 326 Tools and Data Analysis (2) ☐ ASTR 315 The Solar System (4) Nine (9) credits of upper division physics or astronomy courses including 2-3 credits of: ❑ PHYS 491 Senior Project in Experimental Physics or ❑ PHSY 492 Senior Project in Theoretical Physics or ❑ ASTR 493 Senior Project in Astronomy
	Science Education: ☐ SCED 370 Science and Society (3) [or equivalent] ☐ SCED 481 Fundamentals of Teaching Science (2) ☐ SCED 491 Methods in Secondary Education for Science Teachers (5)
	Mathematics: ☐ MATH 124-125 Calculus and Analytic Geometry I, II (10); *or* MATH 134-135 Honors Calculus I, II (10); *or* MATH 138 Accelerated Calculus ☐ MATH 224 Multivariate Calculus and Geometry (5)
	Applicable Washington Educator Skills Tests – Endorsement (WEST-E)

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Endorsement Advisor Signature **Date**