

DEPARTMENTS of MATHEMATICS and PHYSICS

Degree Program: Bachelor of Arts in Secondary Education (Physics / Mathematics)

Catalog: 2009-2010 (Revised on April 21, 2009)

Required Courses (106-107 credits)

This major must be accompanied by the professional education program in secondary education. This major meets the requirements for Washington state endorsements in both Physics and Mathematics. See the *Secondary Education* section of the catalog for program admission, completion, and teacher certification requirements. A cumulative GPA of at least 2.50, plus a minimum grade of C (2.0) or above in the individual courses must be maintained in the courses required for the major.

<u>Course Number</u>	<u>Prerequisite</u>
MATH 124 or 134	Suitable score on Adv. Math Placement Test or at least a C- in MATH 115 or 118
MATH 125 or 135	MATH 124 or 134
or MATH 138	Permission of instructor
MATH 204	MATH 125 or 135 or 138; 224 recommended
MATH 209	MATH 124 or 134 or 138
MATH 224	MATH 125 or 135 or 138
MATH 331	MATH 204; 224 recommended or concurrent
MATH 360	MATH 125 or 135 or 138; 204; one of 209, 302
MATH 419	12 credits of upper division math
MATH 483	At least two upper division math courses; admission to Woodring

Note: The pair MATH 203, 303 may be substituted for the pair MATH 204, 331.

At least two of the following three math courses:

MATH 207	Basic computer literacy (CSCI 101 or equivalent); MATH 125 or 135 or 138; 204
MATH 341	MATH 125 or 135 or 138
MATH 410	MATH 204, 331, 224 (See note above)

PHYS 121	MATH 124 or 134 or 138
PHYS 122	PHYS 121; MATH 124 or 134 or 138
PHYS 123	PHYS 121; MATH 124 or 134 or 138
PHYS 219	MATH 124 or 134 or 138 or concurrent
PHYS 223	PHYS 121; MATH 124 or 134 or 138; PHYS 233 lab required for physics majors
PHYS 224	PHYS 223
PHYS 225	PHYS 224
PHYS 233	Concurrent enrollment in PHYS 223
PHYS 322	PHYS 123
PHYS 326	PHYS 224, 233; MATH 203, 224; CSCI 140
PHYS 391	PHYS 225, 322, 326
ASTR 315	One year of college physics.

SCED 370

SCED 481 One of the following: CHEM 123, 225, GEOL 212, BIOL 206, PHYS 123

SCED 491 Admission to the Secondary Teaching Program and a major or concentration in natural sciences (SEC 431 or 532; SCED 481)

Ten additional credits of upper-division physics or astronomy courses, including 2-3 credits from PHYS 491, 492, ASTR 493