

# Physics Certification (7-12)

## Courses Required

Obtaining teacher certification requires fulfillment of the major in Physics as well as additional courses specified below.

Category	Descriptor	Credits	Courses
Course requirements for entry into Pre-Certification Initial Preparation Program (Must be completed prior to the end of the 2 <sup>nd</sup> year)	Two Math Intensive Courses	2	MATH 202 MATH 211 (Or other required MATH courses)
	Writing Intensive Course	1	Any W1 Course
	English Literature	1	Any ENLS Course (excluding courses with W1 designations) <sup>1</sup>
Subject Area Courses <sup>2</sup> Required for Certification	PHYS 211	1	PHYS 211 Classical and Modern Physics I
	PHYS 212 or PHYS 212E	1	PHYS 212 Classical and Modern Physics II or PHYS 212E Classical and Modern Physics II
	PHYS 221	1	PHYS 221 Classical Mechanics
	PHYS 222	1	PHYS 222 Wave Mechanics and Quantum Physics
	PHYS 310	1	PHYS 310 Experimental Physics
	PHYS 331	1	PHYS 331 Advanced Classical Mechanics
Required EDUC Courses	EDUC 355	1	EDUC 355 Teaching of Science in Secondary School (typically taken Fall of the senior year)
	EDUC 101	1	Social Foundations of Education
	EDUC 201	1	Educational Psychology
	EDUC 306	1	Classroom Management
	EDUC 311	1	Assessment and Differentiation
	EDUC 334 or EDUC 335	1	EDUC 334 Later Childhood and Adolescent Development or EDUC 335 Child and Adolescent Development
	EDUC 340	.5	K-12/7-12 Field Experience
	EDUC 359	3	Student Teaching: Secondary
	EDUC 459	1	Professional Seminar in Secondary Education
EDUC 375	1	Teaching and Learning in Linguistically Diverse Contexts	

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<sup>1</sup> English AP courses accepted for credit at Bucknell can be used to meet this requirement.

<sup>2</sup> Courses in this category may or may not meet major requirements for the students selected field of study. Students should consult the appropriate part of the Bucknell Catalog for listings of major requirements.

## Recommended Course Sequence for Secondary and K-12 Teaching Certification Programs

Secondary and K-12 certification programs are based on a major in the desired content area. In addition to meeting Bucknell's College Core Curriculum requirements along with requirements for their major, students must plan to take the equivalent of one education course per semester, and to spend one semester in the senior year in student teaching. Some certification areas require specialized content courses or have requirements outside of the major. Please see the specific requirements for your certification area and consult early and often with your education advisor to make sure you are fulfilling all requirements for teaching certification.

### Sample Secondary and K-12 Certification Configuration

<b>Year 1 Fall</b>	<b>Year 1 Spring</b>
EDUC 101 Social Foundations of Education	EDUC 201 Educational Psychology
<b>Year 2 Fall</b>	<b>Year 2 Spring</b>
EDUC 334/335 Child/Adolescent Dev.	EDUC 311 Assessment and Differentiation EDUC 375 ESL Methods EDUC 306 Classroom Management
<b>Year 3 Fall</b>	<b>Year 3 Spring</b>
Abroad or EDUC 334/335 and EDUC 340 K-12/7-12 Field Experience (½ credit field placement fall or spring)	Abroad or EDUC 311 and/or EDUC 375 and/or EDUC 306 and EDUC 340 K-12/7-12 Field Experience (½ credit field placement fall or spring)
<b>Year 4 Fall</b>	<b>Year 4 Spring</b>
Teaching of courses with field placements <ul style="list-style-type: none"> <li>• MATH 207 Teaching of Mathematics in Secondary Schools</li> <li>• EDUC 354 Teaching of Art</li> <li>• EDUC 355 Teaching of Science in Secondary Schools</li> <li>• ENGL 297 Teaching of English</li> <li>• LING 241 Teaching of Foreign language</li> <li>• Note: Social Studies Student's take EDUC 313 Reading Self, Community, and The World in Year 3 Spring)</li> </ul>	Secondary Student Teaching and Seminar EDUC 359 (3 courses) and EDUC 459 (W-2)

