University of New Hampshire

SUBJECT AREA REQUIREMENTS FOR CERTIFICATION IN PHYSICS (7-12)

Students must complete a B.A. or a B. S. in physics plus Phys. 406 (Astronomy)

BS:
PHYS 400 Freshman Seminar
PHYS 407 & 408 General Physics I & II
PHYS 505& 506 General Physics III Lecture and Lab
PHYS 508 Thermodynamics and Statistical Mechanics
PHYS 605 Experimental Physics I
PHYS 615 &616 Classical Mechanics and Mathematical Physics I & II
PHYS 701 & 702 Quantum Mechanics I & II
PHYS 703 & 704 Electricity and Magnetism I & II
PHYS 705 Experimental Physics III
Two courses from PHYS 707, 708, 710, 712, 718, 720
CHEM 403 & 404 (both) or Chem 405
MATH 425 & 426 Calculus I & II
MATH 527 Differential Equations & Math 528 Multidimensional Calculus
OR Math 525/526 Linearity
CS 410 Introduction to Scientific Programming

BA:
PHYS 400 Freshman Seminar
PHYS 407 & 408 General Physics I & II
PHYS 505& 506 General Physics III Lecture and Lab
PHYS 508 Thermodynamics and Statistical Mechanics
PHYS 605 Experimental Physics I
PHYS 615 & Physical Mechanics I & II
PHYS 701 Quantum Mechanics I
PHYS 703 Electricity and Magnetism I
PHYS 705 Experimental Physics III

Note: MATH 425, 426, 525, 526, or 527, 528 are prerequisites for some courses.

Education Requirements for Physics Certification
EDUC 500/935 Exploring Teaching
EDUC 700/800 Educational Structure and Change
EDUC 701/801 Human Development and Learning
EDUC 705/805 Alternative Perspectives on the Nature of Education
EDUC 707/807 Teaching Reading Through the Content Area (2 credits)
EDUC 751/851B Educating Exceptional Learners
EDUC 791/891 Methods of Teaching Secondary School Science
EDUC 900,901 Internship & Seminar in Teaching (12 credits)

Note: MATH 425, 426, 525, 526, or 527, 528 are prerequisites for some of these courses.

**Any Education course taken for a teacher licensure requirement must be completed with a grade of B- or better. This applies to any courses from other departments that have been designated as equivalent to an Education course.

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