## PHYSICS CERTIFICATION

Name	Date	Class Yr	HUB				
Phone	Email	Adviser					
Semester/Yr Planning to Student Teach							
(Frample Spring 2006)							

NOTE: Major requirements and certification requirements may differ somewhat. Seek degree completion advice in your major department.

## **SPECIALIZATION REQUIREMENTS**

Course No.	Course Title	Completed	Grade	Need			
Ten Courses, including 4 core courses:							
*PHYS 131 and 132	Introductory Physics						
OR	OR						
*PHYS 141 and 142	Physics for the Life Sciences						
*PHYS 211	Vibrations, Waves, and Optics						
*PHYS 212	Medical and Radiation Physics						
*4 electives with at least two at 300 level or above:							
PHYS 213	Analog and Digital Electronics						
PHYS 282	Introduction to Theoretical Physic	es 🗆					
PHYS 306	Intro to Astrophysics						
PHYS 311	Dynamics & Chaos						
PHYS 312	Electrodynamics and Plasmas						
PHYS 313	Microcomputer Interfacing						
PHYS 314	Energy and Environmental Physic	es 🗆					
PHYS 315-316	Health Physics						
PHYS 317	Nuclear and Health Physics Lab						
PHYS 361A	Thermodynamics & Stat Mech						
PHYS 361B	Optics						
PHYS 392	Physics Seminar						
PHYS 406	Adv. Astrophysics						
PHYS 412	Laboratory and Space Plasmas						
PHYS 431	Quantum Mechanics						
PHYS 432	Topics in Theoretical Physics						
PHYS 550	Independent Research						
*Two Research Courses (Required)							
PHYS 491and 492 OR	Senior Research Seminar OR						
PHYS 491and 492H	Senior Research Seminar						

Corequisite courses for physics certification. These requirements can be satisfied by taking courses at Dickinson or another institution of higher education, approved independent study, competency testing, or satisfactory A.P. test scores. They should be completed early in your time at Dickinson.

<sup>\*</sup>Math 161 Calculus I

<sup>\*</sup>Math 162 Calculus II

<sup>\*</sup>Phys 282 OR Calculus III