Teacher Prep Track

Overview

The Teacher Preparation Track is aimed at those who plan to teach physics, math or other technical fields in secondary school. It is also a good choice for students aimed at a career in science journalism, patent law, science advisor to politicians, or other fields involving the communication of physics to a broader audience. The distinguishing feature of the Teacher Preparation Track is the Physics 407-8-9 sequence, which is aimed at giving you the conceptual understanding and experience required to explain physics without college-level mathematics. The UW has a world-famous Physics Education Research Group, and students in this track have the opportunity to benefit from and contribute to this effort. Students in other degree options who would like to improve their physics communications skills are welcome in the 407-8-9 classes.

Requirements (94-98 credits)

NOTE: A single course may meet at most ONE physics-specific degree requirement.

Core Requirements (55-56 cr). (See here)

Core Physics (10-11 cr)

Phys 226 (3) Particles and Symmetries
Phys 324 (4) Quantum Mechanics II
ONE course selected from:
  Phys 323 (4) Electromagnetism III
  Phys 328 (3) Statistical Mechanics
  Phys 329 (3) Classical Mechanics

Advanced Math (7-9 cr)

Phys 228 (4) Mathematical Physics II
ONE courses (in addition to the core Math Menu requirement) selected from:
  Math 307 (3) OR AMath 351 (3) Ordinary Differential Equations
  Math 308 (3) OR AMath 352 (3) Linear Algebra
  Math 309 (3) OR AMath 353 (3) Partial Differential Equations
  Math 324 (3) Vector Calculus
  AMath 401 (4) Vector Calculus and Complex Waves
  Math *334, *335, *336 Honors Advanced Math

Advanced Laboratory (3-5 cr)

ONE lab courses selected from:
  Phys 331 (3) Optics Lab
  Phys 335 (3) Electronic Lab II
  Chem 464 (3) OR Phys 434 (3) Computers in Data Acquisition and Analysis
  Phys 431 (3) Modern Condensed Matter Physics Lab
  Phys 432 (3) Modern Atomic Physics Lab
  Phys 433 (3) Modern Nuclear and Particle Physics Lab
物理学の入門（15学分）

**Phys 407**（5学分）物理学の入門 I（力学）
**Phys 408**（5学分）物理学の入門 II（電磁気力学）
**Phys 409**（5学分）物理学の入門 III（波、熱、および量子物理学）

カプストーン

3学分の教育実習あるいは物理学教育研究:

**PHYS*401, 499**

物理学に関連する教員実習あるいは自己研究の学分を持つ学生は、その物理学を彼らの自己研究に応用した紙を書いた場合、カプストーンの要件を満たすことができます。詳細と事前に承認を得てください。

**NOTES**

* . Not currently coded into DARS. Please see the UFA (Prof. Olmstead) to allow this course to meet this requirement.

§ . Students taking advanced laboratories in other departments may petition to have them substitute for Astro 480.

** . Other courses may be accepted by petition to the UFA (Prof. Olmstead).

Department of Physics
University of Washington
Physics-Astronomy Building, Rm. C121
Box 351560
Seattle, WA 98195-1560

Phone: (206) 543-2770
Fax: (206) 685-0635
physrecp@uw.edu

**Source URL:** [https://phys.washington.edu/teacher-prep-track](https://phys.washington.edu/teacher-prep-track)