

Computational Precision Health (CPH)

Courses

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CPH 215 Lab Rotation 1 - 8 Units

Terms offered: Fall 2023

For first-year CPH graduate students, this course will provide an introduction to experimental methods and research approaches in the different areas of Computational Precision Health. Ten week laboratory rotations spread out over the fall and spring semesters (summer will be on a needed basis). Research is conducted under the direction of an individual faculty member.

Lab Rotation: [Read More \[+\]](#)

Objectives & Outcomes

Course Objectives: Student will be able to identify an appropriate lab setting for conducting their dissertation research.

Students will be able to apply one or more computational or analytic methods to specified problems.

Students will be able to identify and define a real-world problem in computational terms.

Students will review, evaluate, and select appropriate computational or analytic methods for specified problems.

Rules & Requirements

Prerequisites: Instructor permission required

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 10 weeks - 5-26 hours of laboratory per week

Summer: 10 weeks - 2-21 hours of laboratory per week

Additional Details

Subject/Course Level: Computational Precision Health/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Lab Rotation: [Read Less \[-\]](#)

CPH 270 Computational Precision Health Seminar 2 Units

Terms offered: Spring 2024, Fall 2023, Spring 2023

Computational precision health is a rapidly evolving field at the intersection of the computational (to include computer science, data science, and statistics) and the health sciences (clinical medicine, population health, clinical research). The seminar series will consist of a combination of journal club-style discussion of recent literature in Computational Precision Health, guest faculty speakers drawn from across the program's faculty and beyond, presentations by second-year students on work completed during lab rotations, and presentations by third-year students on "work in progress" on active dissertation research. Each cohort of PhD and DE students will have their own breakout sections to build community within that year.

Computational Precision Health Seminar: [Read More \[+\]](#)

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction. Students may enroll in multiple sections of this course within the same semester.

Hours & Format

Fall and/or spring: 10 weeks - 1.5 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Computational Precision Health/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Computational Precision Health Seminar: [Read Less \[-\]](#)

CPH 299 Individual Research 1 - 12 Units

Terms offered: Spring 2024, Fall 2023, Spring 2023

Individual research under the supervision of a faculty member

Individual Research: [Read More \[+\]](#)

Rules & Requirements

Repeat rules: Course may be repeated for credit without restriction.

Hours & Format

Fall and/or spring: 15 weeks - 0-0 hours of independent study per week

Additional Details

Subject/Course Level: Computational Precision Health/Graduate

Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Research: [Read Less \[-\]](#)