

WDRP

Applications for Spring 2025
are open from **March 3** to
March 21!

For important dates, detailed project descriptions, and the application link, go to <https://sites.uw.edu/wdrp/applications/>



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What is WDRP

The **Washington Directed Reading Program (WDRP)** is an initiative from the Mathematics Department launched in Fall 2018. This program pairs interested undergraduate students with mathematics graduate student mentors to embark on a **quarter-long independent reading project**.

Key Components

- **Start-of-quarter kickoff event**, including an introduction to the program and time to mingle with other undergraduate and graduate students.
- **One-on-one weekly meetings** between undergraduate student mentees and graduate student mentors, to discuss the readings.
- **Mid-quarter event** with undergraduate students only, to connect with students working on other projects.
- **WDRP seminars** featuring math talks by graduate mentors, informal Q&A and mingling sessions.
- **End-of-quarter presentations** by undergraduate students on topics selected from their readings.

Why WDRP



Math Outside the Classroom

What is math beyond calculus? What topics interest math researchers? Find out through a unique reading course structure designed to break away from traditional lectures.



Graduate Student Mentorship

Are you considering a math major, or advancing in your math career as a math major? Connect with a graduate student mentor and gain firsthand insights into pursuing a math degree.



Course Credit

2 credits (CR/NC) as Math 398 are available to undergraduate students participating in and successfully completing the program.

Spring 2025 Project List

Explorer Level: *All math levels welcome*

- Mathematics for Sustainability
- Game Theory
- Chip-firing on chains of loops
- History of Mathematics

Beginner Level: *May require some Calculus*

- Exploring Upper-Level Math
- A Gentle Introduction to Algebraic Geometry
- Simple Discrete Models in Biology and MATLAB

Intermediate Level: *May require Math 300 (proofs) and possibly other 300-level courses*

- Solving polynomial equations and more
- Computer-Assisted Proofs
- Proofs from THE BOOK
- Introduction to Elliptic Curves
- Matrix Lie Groups

Advanced Level: *Students who have taken multiple 400-level mathematics courses*

- Algebraic Curves, an introduction to algebraic geometry
- Algebraic Curves
- An Expedition in Representation Theory
- Representations and characters of finite groups
- Homotopy Theory
- Introduction to Algebraic Geometry