

WDRP

Applications for Spring 2024
are open from **March 1** to
March 20!

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



wdrp@uw.edu

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.
- **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

1 credit (CR/NC) as Math 398 is available to undergraduate students participating in and successfully completing the program.

Spring 2024 Project List

Explorer Level: *All math levels welcome*

- A Mathematical Perspective through History
- Singularities
- Mathematics for Sustainability
- Combinatorics and Graph Theory
- Fibonacci Numbers through Counting
- An Introduction to Combinatorics
- Polytopes and Higher Dimensions

Beginner Level: *May require some Calculus*

- Exploring Upper-Level Math
- Learning stats with baseball
- Exploring the Complex World
- Tropical Geometry
- Computer Assisted Proofs

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

- The Mathematics of Ranking
- Representation theory
- Mathematics of Quantum Mechanics
- Representation Theory of Finite Groups
- Matrix Groups
- Introduction to Group Theory
- Introduction to Partial Differential Equations
- Curve-Shortening Flow
- Enumerative Geometry, Incidence Geometry, Projective Geometry

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

- Galois Cohomology
- Introduction to Algebraic Geometry
- Algorithmic Integration