

MATH 4890 - Independent Study

Summer 2026 Syllabus, Section 01, CRN 31021,

Credit hours: 3

Instructor

Thomas Wakefield

Professional Qualifications:
PhD, Pure Mathematics

Professor

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Course Description

4890. Independent Study. Study under the supervision of a staff member. May be repeated. 3 s.h. Prereq.: Consent of instructor. 1-3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Abstract Algebra: Theory and Applications	Judson, Thomas	

Available at: <https://judsonbooks.org/aata-files/aata-html/aata.html>

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
5/11	1.1, 1.2, 2.1, 2.2, 3.1, 3.2, 3.3	Background/Groups	Exercises
5/18	4.1, 5.1, 5.2	Cyclic Groups and Permutations	Exercises and Two Labs
5/25	6.1, 6.2, 9.1, 11.1, 11.2	Cosets and Homomorphisms	Exercises and Coset Lab Exam 1
6/1	10.1	Normal Subgroups and Quotient Groups	Exercises and Two Labs
6/8	9.2, 13.1, 16.1	Direct Products and Abelian Groups	Exercises
6/15	16.2, 16.3	Integral Domains and Fields	Exercises and Paper Due
6/22	No Class No Class No Class No Class No Class No Class No Class		Exam 2

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.