Contents
MAT 5600: Directed Research in Mathematical Sciences
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1.1 Catalog Description

A research project will be chosen, formulated, and executed by the student under the guidance of a faculty member. The project may investigate a mathematical sciences or a mathematics pedagogy topic. A final written report and presentation are required. MAT 5600 must be taken for a total credit of three semester hours.

1.2 Activities, Learning Goals and Assessment
Activities

- Participate in regular meetings, possibly over Zoom videoconferencing if necessary
- Research, review and interpret literature relating to classification in geometry and topology
- Create an annotated bibliography
- Create a presentation

Learning Goals

- Choose, formulate, and execute a quality research project to investigate classification in geometry and topology
- Produce publication-quality writing and presentations that demonstrates consideration of context, audience, and purpose in a logical, organized manner.

Assessment
Successful completion of the course, annotated bibliography, and presentation

1.3 Required Resources and Materials

- You will need regular access to the library. You can access the resources on and off campus (some require your ASU login).

1.4 Academic Affairs Policies

We adhere to the University-wide syllabus and policy statements:
https://academicaffairs.appstate.edu/resources/syllabi-policy-and-statement-information

1.5 Office Hours

Dr. Mawhinney's Office Hours: MW 1:00-3:00 in 330.
Dr. Sarah's Office Hours: Monday 12:30-1:45, and Tuesday/Thursday 12-1:45 in 326.

1.6 Where to Get Help and Additional Policies

If there is some reason you must miss a deadline, then keep me us informed, with any appropriate documentation, and turn the work in early or on time, if at all possible. We encourage you to talk to us often. We also want you to be informed about your choices regarding what you tell me about certain types of sensitive information. In situations where students disclose experiencing an act of interpersonal violence to their instructor, faculty are required to report what students tell us to the campus Title IX Coordinator, who then reaches out to the student by email offering support services. We care about you and want you to get the resources you need. We are happy to talk with you if you decide you want that, but please be aware that if instead you'd like to explore options with someone who can keep your information totally confidential, we highly recommend the Counseling Center at 828-262-3180. They offer walk-in hours as well as after-hours coverage: `http://counseling.appstate.edu`.

- Appalachian Cares is a place to find updates about matters of student health and safety. It also functions as the most up-to-date clearinghouse of information, resources and support available. `http://appcares.appstate.edu/`.
- The University Writing Center (UWC) offers free services to students, faculty, and staff of Appalachian State University and the Boone community: `http://writingcenter.appstate.edu/`
- The library offers Research Advisory Program (RAP) sessions. `http://library.appstate.edu/gethelp/rap`
- The Learning Assistance Program provides five core services. Two services, University Tutorial Services and Academic Strategy Instruction, are offered to all undergraduate students, and three services, ACCESS, Student Support Services, and Academic Services for Student Athletes, serve specific groups of students identified as needing comprehensive support. In Fall 2016, the ASU-R program joined the Learning Assistance Program. `http://lap.appstate.edu/welcome-learning-assistance-program-1`
- AppSync is your one-stop connection to engagement and leadership opportunities at Appalachian State. `https://appsync.appstate.edu/`

Academic integrity is a fundamental part of the course, which includes meeting deadlines, regular communication, and giving proper reference where it is due. These are essential to course integrity. Submitting someone else's work as your own (PLAGIARISM) is a serious violation of the University's Academic Integrity Code, which defines: "Plagiarism includes, but is not limited to, borrowing, downloading, cutting and pasting, and paraphrasing without acknowledgement, including from online sources, or allowing an individual's academic work to be submitted as another's work."