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Combinatorics I

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MAS4105

MAD 6207

MAD 6207

MAD6207: Combinatorial Theory 2

Meetings: Online MWF 11:45-12:35pm

Instructor: Zachary Hamaker

Email: zhamaker@ufl.edu

Office hours: TBA

Text:

There is no fixed text — we will use many resources.

Topics:

We will cover several core topics in combinatorics, beginning with analytic properties of generating functions. Other possible topics include symmetric functions and graph theory.

Technology:

The class will be conducted in a synchronous Zoom meeting, with recordings uploaded afterwards to YouTube. Office hours will be at:

[https://ufl.zoom.us/j/96889942529?](https://ufl.zoom.us/j/96889942529?pwd=ZDNPcStmb0w1S3RQN3ZRTDBQMk9ldz09)

[pwd=ZDNPcStmb0w1S3RQN3ZRTDBQMk9ldz09](https://ufl.zoom.us/j/96889942529?pwd=ZDNPcStmb0w1S3RQN3ZRTDBQMk9ldz09) (Links to an external site.)

Additionally, we will use last semester's Discord server. Please let me know if you need a link to join.

Evaluation:

We will have semi-weekly homework sets, a midterm and a final exam. Exams will be take-home.

Grading:

Grades will be computed as follows:

Homework (50%)

Midterm (25%)

Final (25%)

The final grades will be curved, but will be no tougher than the 10-point scale: 90%–100% will be some form of A, 80–90% will be at least some form of B, etc. After each midterm, you will receive a projected grade.

If you have a disagreement with the grading of one of your solutions, I ask that you submit a written request for reconsideration within one week.

Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Homework:

Homework will be assigned Wednesday, due the following Wednesday. Some of the problems will be very difficult, so I encourage you to begin working in advance. I will drop your lowest homework score.

Midterm:

The midterm will be a take-home exam. It will be slightly easier than a homework assignment, but more comprehensive. It will be open book and open note. You may **not** consult any outside resources during the exam, including. The exam will be assigned:

March 3rd

Final exam:

There will be a take-home final exam, similar to the midterm. It will be assigned at the beginning of the final exam period, due at the end.

Additional information

Honor code: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” [The Honor Code](#) (Links to an external site.) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

Class Attendance: Attendance will not be monitored. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>. (Links to an external site.)

Accommodations for Students with Disabilities: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://www.dso.ufl.edu/drc/> (Links to an external site.)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Online Evaluations: Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>. (Links to an external site.)

Complaints: The official UF policy for filing a complaint about the course may be found [here](#) (Links to an external site.).

Contact information for the Counseling and Wellness

Center: <http://www.counseling.ufl.edu/cwc/Default.aspx> (Links to an external site.), 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

U Matter, We Care: Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Department diversity statement:

The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements

It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.

Privacy statement:

Our class sessions may be audio-visually recorded for students in the class to refer back and

for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voice recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the “chat” feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials by students or any other party is prohibited.

(Links to an external site.)

Office hours: TBA, likely on Tuesday

Text: We will use many sources. See announcements as required.

Topics:

The course will be split into several independent topics. We will begin by studying analytic properties of generating functions. Other possible topics include symmetric functions and aspects of graph theory.

Technology:

The class will be conducted in a synchronous Zoom meeting, with recordings uploaded afterwards to youTube. Office hours will use the class Zoom link, although we may try gather.town.

(Links to an external site) Additionally, we will have a class Discord server. Please let me know if you are having trouble joining, as the link eventually expires.

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March 17th

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