DANA BARTOSOVA

Welcome to Category Theory!

All further information will be published on Canvas.

Disclaimer: This syllabus is a subject to change and it is your responsibility to keep up. Nevertheless, any modifications will appear in announcements on Canvas.

Instructor: Dana Bartošová Office: LIT 436 Email: dbartosova@ufl.edu

Special Topics in Math: Category Theory

Class meetings: MWF 10:40-11:30am in LIT 207. Office hours: M 11:45am-12:35pm and W 9:35-10:25am, or by appointment.

Announcements on Canvas: There will be announcements with information on presentations, changes, and reminders of homework due dates.

Texts: There is no specific textbook required for this course. Here are a few texts that all present an introduction to category theory from a slightly different perspective.

- Eugenia Cheng: The Joy of Abstraction.
- 2. Harold Simmons: An introduction to Category The
- 3. Emily Riehl. Category theory in context.
- 4. Steve Awodey, Category Theor
- 5. Jifi Adámek, Horst Herrlich, and George E. Stecker, Abstract and Concrete Categories -The Joy of Cats 6. Tom Leinster, Basic Category Theory

- 8. nLab (this is a wiki page with category theoretic perspective on math). 9. n-Cateogory cafe (this is a categorial blog).

COURSE DESCRIPTION

This is an introductory conce into abstract floiding about multimutics as a whole which category theory has formulated. The clauses will be a combination of a classical feature and a fig class. Many of the examples of congression and their enfancings will adouble horses have been as figured discover how to fluids about them as different numerication of the uses principles. The topics correct will be congressive, finature, andistic, colpoints, invested (to-leptor, and adjustices, leadures are consequed to suggest additional topics to be discussed. All nations will be accompanied by many examples and modern applications.

Assignments: Every week I will post 4 problems to think about out of which 1 shall be submitted via Carvas.

Presentation: You can choose any topic related to the course to research deeper about and present your findings to everyone during our usual class meeting. You can work alone or in pairs. The idea is for everyone to speak 20-30min, but if you would like to take full 50 minutes, that works tree.

Grades: Each homework (lotal of 12) will be 10 points and the presentation will be 50 points; in total 170 points. The grades will be distributed as follows: A above 50%, A. 65-69%, B. 98-08-4%, B. 75-79%, C. 70-74%, C. 65-69%, C. 60-64%, D. 55-59%, B. 20-24%, D. 50-59%, E. J. N. W. 149% and below. For university grading policies see https://cutalog.afl.clu/UGRD/icademic-regulations/grade-

DIVERSITY, EQUITY, AND INCLUSION

STATEMENT

I am committed to diversity and inclusion of all students in this course. I acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements

It is my 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.

UF students are bound by The Honor Plodge which states, We, the members of the University of Protest community, plotage to hold coarsives and or peers to the highest studenties of honor and integrity by addingly or be homo Cache. On all the scalemble of credit by substituted at the University of Florids, the following plotage is other required or impliet. Of my honor, I have nother given nor received usual/intense of all roding the assignment. The Honor Cache periodes a number of behaviors that are in violation of the code and the possible secretoris. Cach have to small for linear Cache. Furthermore, you en digitate to epon outcome that facilities academic intensected to appropriate personnel. If you have any questions or concerns, please consoit with the instructor in this class.

Requirements for class attendance and make-up exams, assignments, and other work in this course

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center. Click here to get started with the control of the cont Disability Resource Center. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

Students are expected to provide professional and respectful feedback on the quality of instruction in this occurse by completing course evaluations online via GatorEvals. Click here for guidance on how the give feedback in a professional and respectful manner. Students will be notified when the evaluation regressions in a processors are respectful memor. Subsents will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via uff.bluera.com/uff. Summaries of course evaluation results are available to students here.

HEALTH AND WELLNESS

U Matter, We Care: If you or someone you know is in distress, please contact umatter@ufl.edu, 35 392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you

University Police Department: Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for

UF Health Shands Emergency Room / Trauma Center: For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road,

Gainesville, FL 32608; Visit the UF Health Emergency Room and Tra

ACADEMIC RESOURCES

E-learning technical support: Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

Career Connections Center: Reltz Union Suite 1300, 352-392-1601. Career assistance and counseling services.

Library Support: Various ways to receive assistance with respect to using the libraries or finding resources.

Tranching Conter: Broward Hall, 352-392-2010 or to make an appointment 352-392-6420. General study skills and tutoring.

• Writing Studio: 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.

Student Complaints On-Campus: Visit the Student Honor Code and Student Conduct Code webpage for more information.

On-Line Students Complaints: View the Distance Learning Student Complaint Process.