

Math 142
Survey of Contemporary Mathematics
Course Guide
Spring 2017



Instructor: Dr. J.W. Snow
Office: Jesse 215
Phone: 643-7417
email: John.Snow@cune.edu
Office Hours: MWF 10:00-11:00
other times by appointment

New Name: Beginning in 2017-18, this class will be **Math 242 – Mathematical Coding in Art**. The description below is for that class.

Catalog Description: An investigation of mathematics and algorithms which may be used in creating art through computer programming. Selected topics may include elements from geometry, algebra, logic, probability, physics, and programming.

Textbook: Course materials will be made available on the course web page.

Purpose: A significant purpose of this class this semester is to learn structured analytic and quantitative reasoning skills in an environment in which students have a visual outlet limited only by their own creativity. A major vehicle we will use in this pursuit is web programming. Students will be exposed to basic layout tools in HTML and basic programming techniques in JavaScript.

Homework: Homework will be assigned with each new topic we cover. Each assignment will culminate in a multi-page website. Most assignments will need to go through a revision process until they are deemed acceptable. Details on each assignment are listed on the course website.

Website/Portfolio: Students will maintain a website in which they present major projects completed during the semester. At the end of the semester, you will turn in your entire website as a zipped folder. This will serve as your portfolio for the class.

Creative Project: Some of the topics we talk about this semester can be considered tools for *generative art*. Each student will use some of these tools to complete a creativity project. The project will include a written statement describing the work and the tools used to complete it.

Grades: Grades in this class will be determined by how many projects you revise to the acceptable stage.

Additional Assignments: Under some circumstances, additional assignments and quizzes may be necessary to facilitate communication and learning.

Attendance: You are expected to be in class on time every day. If you miss class for any reason, it is your responsibility to get the notes and assignments from that class meeting. A sign-up sheet will be passed around each class period to monitor attendance.

Electronics: All electronic devices such as phones, tablets, laptops, earphones, etc. which are not being used for class work should be put away during class. There are no circumstances in which I should see a phone out during class or earbuds in your ears.

Format of Answers: This is a math class. Math relies on structure, discipline, and method. As such, unless I say otherwise, I expect to see complete work and exact answers. Your work should be neatly written so that the grader can easily follow it and find your answers.

Commitment: You are a student; your job is to study. You will not succeed in this class without spending time studying and doing homework. For each hour in class, I expect you to spend two hours outside of class preparing (some will need to spend more time).

Behavior: It is assumed that at all times you will conduct yourself in a manner consistent with being a member of a Christian community.

Work Samples: Samples of student work are occasionally used (without names) for assessment purposes. If you do not want your work used in such a way, you should let me know.

Course Workload: In the face-to-face, online, and hybrid classrooms at Concordia University, Nebraska, credit hours are amassed in a course through student-to-instructor interaction, student-to-student interaction, Blackboard activities, contact with course-specific content, assignments, assigned videos, and other activities. No matter the length of the course meeting time in weeks or the amount of face-to-face instruction in the course, students can expect to devote at least 135 hours for each 3-credit course.

Course Participation: Federal Financial Aid regulations, which Concordia observes for all students, require that students regularly participate in courses in which they are enrolled. All students must log into the course management system (Blackboard) or participate in a face-to-face session weekly in order to avoid being tagged as a non-participant. Students must use the Concordia Blackboard and e-mail messaging systems to contact instructors and advisors. Students who are unable to participate regularly in their course for any reason should contact their instructor and their advisor. Students who intend to withdraw from a course or a program should notify their instructor and advisor.

Academic Integrity: At Concordia University Nebraska, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility, and respect. As a student, you are required to demonstrate these values in all of the work you do. Participating in a behavior that violates academic integrity (e.g., plagiarism, unauthorized collaboration, multiple submissions, cheating on examinations, or fabricating information) will result in your being sanctioned. Violations may subject you to disciplinary action including the fol-

lowing: receiving a failing grade on an assignment or examination, receiving a failing grade for the course, and/or being suspended from the university.

ADA: Students with a documented disability, who need reasonable accommodations, should contact ADA & Academic Support located in Link Library to arrange an appointment to discuss their individual needs. Students are also encouraged to notify their instructors immediately about any disability-related academic needs they may have. To contact the Academic Resource and Disability Support Services Coordinator, Bethany Landrey, please call 402.643.7187 or 800.535.5494 ext. 7187 or email Bethany.Landrey@cune.edu.

Emergency Information: In inclement weather, check your e-mail, Blackboard, and the Concordia website (www.cune.edu) for information. Your instructor may utilize Blackboard to make-up course time, so please check Blackboard if a class is cancelled. In the event of an emergency while you are in a face-to-face class, follow the instructions of your instructor, ensure you are in a safe location, and, after you are in a safe location, check in with your instructor before leaving so that he or she can account for all students. Also, if you have not already done so, please update emergency contact information in Banner Self-Service on the connectCUNE portal (<http://connectCUNE.cune.edu>).

Learning Goals for General Education at Concordia:

- **Faith:** to recognize that we are created by God, condemned by sin, redeemed by Christ, living out faith in our vocations.
- **Appreciation:** to value the whole of Gods creation and human experience.
- **Knowledge:** to gain a base level of knowledge in core disciplines.
- **Analysis:** to recognize, understand, critically evaluate and synthesize the components of a topic using methods appropriate to the discipline.
- **Application:** to employ learning creatively in a variety of settings and disciplines.
- **Communication:** to demonstrate effective communication skills for personal, academic and professional purposes.
- **Responsibility:** to grow in Christian stewardship, leadership, and professionalism.

(see more online: cune.edu/GenEd)

Final Exam Schedule:

| Time | Monday | Tuesday | Wednesday | Thursday |
|-------------|-----------------|---------------|-----------------|----------------|
| 8:30-10:30 | 8:00-8:50 MWF | 8:00-9:15 TR | 9:00-9:50 MWF | 9:30-10:45 TR |
| 11:00-11:30 | Chapel | Chapel | Chapel | Chapel |
| 12:00-2:00 | 10:00-10:50 MWF | 12:45-2:00 TR | 1:40-2:30 MWF | 11:40-12:30 TR |
| 2:30-4:30 | 12:40-1:30 MWF | 2:15-3:30 TR | 2:40-3:30 MWF | |
| 7:00-9:00pm | 7:00 M | 7:00 T | 11:40-12:30 MWF | |