About the Course: This course is an introduction to programming. Learning to program, like any other skill, takes practice, lots of practice. Each of the languages we will use (Scratch, NetLogo, and Processing) has lots of example programs. Running these sample programs, trying to understand how they work, and modifying them is a great way to learn. Remember that you can't hurt your computer with any of these programs; in the worst case you'll have to delete your modified version and go back to the original sample program and start over. So feel free to experiment, that's the best way to learn.

Textbook: No textbook is required for the course. There are on-line references for the Scratch, NetLogo, and Processing languages that you should review and use. These references can be found on the course website at http://www2.cs.uidaho.edu/~mdwilder/cs112 and are also located elsewhere online.

Course Website: http://www2.cs.uidaho.edu/~mdwilder/cs112

Prerequisites: Math 108 or sufficiently high ACT, SAT, or math placement test scores to qualify for Math 143.


Office Hours: MWF 2:30 – 3:30 in JEB 220. These are the best time to meet with me to discuss matters related to this course.

Support: Computer Science Assistance Center (CSAC): JEB 211 M-F 9:00-4:00.

Assignments and Expectations: There will be programming assignments in the course. We will have a programming assignment about once each week. Each of these assignments will require 3-6 hours to complete. Many of the assignments build on previous assignments, so it is very important that you do not skip an assignment. There are a number of expectations regarding the programs that you turn in for credit. They are:

- All programs must run.
- All programs must include a comment containing your name, the current date, and the assignment number.
- Variable names (when used) should be descriptive.
- Programs should be broken into functions where appropriate.
- Program output should be clear.
- Program requests for input should be clear.
- Programs should be adequately tested to demonstrate that they function as prescribed under “reasonable” conditions. What constitutes “reasonable” conditions will be defined as the course progresses.
- Programs that run but do not meet all requirements specified for that assignment will earn partial credit.
- Programs that do not run will not earn any credit.

Late Assignments: Assignments are due at the beginning of lecture on the specified date. Late assignments will not be accepted without a very good excuse.
Exams: There will be two midterms and a comprehensive final exam in the course.

Midterm 1: 21 Feb
Midterm 2: 13 Apr
Final Exam: 14 May (10:15 – 12:15)

Grading:
Assignments (31%)
Two midterm exams (22% each)
Final Exam (25%)

The letter grade you earn in this course will be determined as follows:
A: 100% - 90%
B: 89.9% - 80%
C: 79.9% - 70%
D: 69.9% - 60%
F: 59.9% - 0%

The instructor reserves the right to adjust these percentages lower if deemed necessary.

Academic Honesty: Academic honesty is vital in preserving the integrity of any academic institution. The Student Code of Conduct outlines the expected behavior of all students in all classes at UI. You can find it at www.uidaho.edu/student-affairs/dean-of-students/student-conduct/student-code-of-conduct. Please do your own work in this course unless the instructor specifically directs otherwise. Academic dishonesty will be severely penalized.

University of Idaho Classroom Learning Civility Clause: In any environment where people gather to learn, it is essential that all people feel as free and safe as possible in their participation. To this end, it is expected that everyone in this course will be treated with mutual respect and civility, with an understanding that all of us (students, instructors, professors, guests, and teaching assistants) will be respectful and civil to one another in discussion, in action, in teaching, and in learning. Should you feel that our classroom interactions do not reflect an environment of civility and respect, you are encouraged to meet with your instructor during office hours to discuss your concern. Additional resources for expression of concern or requesting support include the Dean of Students office and staff (885-6757), the UI Counseling and Testing Center's confidential services (885-6716), or the UI Office of Human Rights, Access, and Inclusion (885-4285).

Center for Disability Access and Resources Reasonable Accommodations Statement: Reasonable accommodations are available for students who have documented temporary or permanent disabilities. All accommodations must be approved through the Center for Disability Access and Resources located in the Bruce M. Pitman Center, Suite 127 in order to notify your instructor(s) as soon as possible regarding accommodation(s) needed for the course.

• Phone: 208-885-6307
• Email: cdar@uidaho.edu
• Website: www.uidaho.edu/current-students/cdar
Student Learning Outcomes:
After successfully completing this course you will have learned how to do the following:

- Use general problem-solving strategies to develop computer algorithms to solve problems
- Write computer programs incorporating and using variables
- Understand and apply the concept of variable scope
- Write computer programs incorporating and using loops
- Write computer programs incorporating and using conditionals
- Use Cartesian coordinates to place and move graphical objects on a screen
- Understand and apply the concepts of sequential and parallel actions in a programming
- Understand and apply the concept of program objects (e.g. sprites, turtles)
- Understand and apply the concept of an array
- Understand that there is a relationship between a programming language, programming environment, and programming paradigm, and how a program is developed
- Be aware of your role as citizens in a digital society