

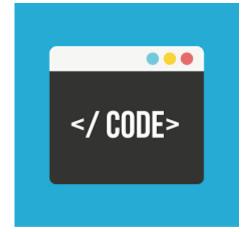


IDSC 3102 Intermediate Programming

Instructor: Vedran Lelas

Course Motivation

- Computer programs are everywhere
 - GPS navigation, online purchases, latest apps
- Why learn basic coding skills?
 - Most MIS majors do not become software engineers
 - Communicate and work effectively with developers
 - Valued and respected skill in today's technological world
 - It teaches you patience, perseverance and grit



Course Objectives

- Demonstrate understanding of intermediate programming concepts
- Understand more complex data structures
- Create GUI-based DB applications
- Get familiar with pandas data analytics package
- Became familiar with a variety of Python's packages
- Lay foundation for becoming a better IT manager in the future
 - Develop an appreciation for software engineers
 - Understand the challenges in software development through personal experience



Course Expectations

- Be prepared to work both in and out of the class
 - About 10 hours per week (3+ hours in-class)
- A lot of help in class and out
 - Assistance during class time and 1-1 help during office hours
- Hands-on experience
 - Heavy computer use
 - Learning by doing
 - Problem solving



Textbook

Tony Gaddis, "Starting Out with Python", 5th edition,
2021

Optional but recommended

 Most of the class time will be spent working on examples and problems from the text

Come to class prepared to work

Significant portion of the class time
will be spent working on the computer
and typing



Grading

- Grade scale listed on the syllabus
- The class is not graded on the curve
 - Borderline grade adjustments at discretion of instructor
 - Always in student favor
- "C" grade meets all expectations
- "A" demonstrates exceptional skill
- "B+" median target grade



Grade Breakdown

Assignments

- 3 homework assignments (20 points, 5-8 each)
- Due by midnight on designated dates

Group Project

Research and present a Python package (10 points)

Exams

- 2 midterm and final exams (70 points, 20-25 each)
- All exams during regularly scheduled class periods
- Midterms roughly 3rd and 5th week
- Final exam on the last class date



Assignments

- Students expected to
 - Work through the assigned chapter problems on their own
 - Collaborate and discuss assignments with the instructor, TA's and classmates
 - Utilize class time to get help with the homework
- Assignments
 - Primary purpose is learning to program by doing
 - Serve as a main practice / preparation for exams
 - Flex days allow you to submit assignments late if necessary

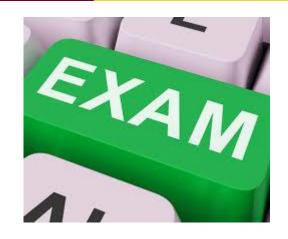


Exams

- Students expected to
 - Work through exams on their own



- Designed to measure programming skills learned in class
- Consist of multiple choice and a hands on Python projects
- Two midterm exams during regularly scheduled classes
- Final exam during the last regularly scheduled class



Class Attendance

- Students expected to
 - Attend class and participate in class projects / assignments
 - Make use of extensive class time devoted to
 - Getting help with homework assignments
 - Practicing and preparing for exams
- Attendance
 - Does not count towards the grade
 - You will know what to expect



- You can expect to spend 2x 5x as much time on your own
- You will not know what to expect



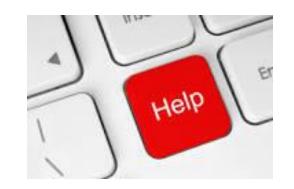
Accountability & Responsibility

- Accountability
 - No excuses!
 - None will be tolerated in your professional life
- Responsibility
 - Start early (use flex days wisely)
 - Clarify assumptions
 - Backup your work
 - Use UM's computing resources
 - Keep documentation
 - If in doubt about anything, come and talk to me!



Getting Help

- Email and office hours
 - Info on top of the syllabus
 - Instructor (CSOM 4-133 / Zoom)
 - TA's (Office TBD / Zoom)
 - Please copy/paste code sections and error messages
- Tech support
 - help@umn.edu



Academic Integrity & Scholastic Dishonesty

- Integrity of your work is essential
- Students are expected to be
 - Familiar with UM's Student Conduct Code
 - https://communitystandards.umn.edu
 - Syllabus policy and specific integrity issues (next slide)
- Scholastic dishonesty can result in
 - Report filed with Office for Community Standards
 - Up to and including an "F" in the course (not allowed to drop)
- If you don't know what's permissible, ASK !!!



All Work = Individual Work

- All work in this class is individual work
 - Except the group project
- Collaboration on homework assignments is encouraged
- What is allowed
 - Showing another student how you approached a problem
 - Post or use sample code from discussion forum
 - Search and use code found on the Internet
- Typed-by-my-own hands standard
 - Do not send or receive an electronic copies of work
 - Be careful when copy/pasting code you did not write
- Protect your own work



Makeup Exams

- In general, makeup exams are rare
- Scheduled in accordance to UM's policy
- Students are expected to
 - Provide all required documentation
 - Let me know as soon as possible
- All makeup exam can occur prior or after the regularly scheduled exam
- Absences known in advance do not merit a makeup exam



Disability Services

- Disability Resource Center
 - https://diversity.umn.edu/disability/

- Not every disability is Visible.
- Students needing special accommodation are expected to
 - Send an electronic copy of the letter as soon as possible
 - File the exam taking request with DRC 7+ days in advance
- If you don't request DRC exam in time, you will be expected to take the exam with the rest of the class

Summary

- Basic to intermediate programming class
- Come to class and be prepared to work
- Earn a good grade by
 - Completing assignments on time
 - Being prepared for exams on a scheduled date
 - Actively contributing to your final project group
- Get help when you need it
- Do your work with integrity and honesty

