CIS 298
Intro to Python
3 Credit Hours, Winter 2023
Tuesday/Thursday 2-3:15 P.M.

Contact Information:

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- Phone Number: (313) 436-9145
  (CIS Department)
- Office Hours:
  Tuesday & Thursday 12:30-1:30 pm
  or by appointment

Learning Goals:

Program Learning Goals:
BS in Data Science: click here

Course Objectives:

- Students will gain an ability to write small programs in a modern programming language
- Students will learn to use Python packages and toolkits
- Students will learn to develop analytic/data science applications

Pre-requisites: Undergraduate level CIS 200 or IMSE 200, either with passing grade, or equivalent.

Required Materials and/or Technology:

- Textbook is provided as a PDF in Canvas, under files, along with another reference text
- Any Python interpreter. I use an add-on in Visual Studio.

Assignments and Grading Distributions:

Midterm & Final Exam	40%
Homework exercises	60%

Grading Scale:

98.0 - 100%	A+	82.5 - 86.4%	B	69.5 - 72.4%	C-
92.5 - 97.9%	A	79.5 - 82.4%	B-	64.5 - 69.4%	D+
89.5 - 92.4%	A-	76.5 - 79.4%	C+	59.5 - 64.4%	D
86.5 - 89.4%	B+	72.5 - 76.4%	C	0 - 59.4%	E

Note: Final grades are rounded. Score of 92.44% is an A-; score of 92.45% is an A

Course and University Policies:

The instructor reserves the right to modify policies to improve the execution of this course.

- Announcements will be posted on Canvas. Please read your email/canvas regularly for announcements.
- **Use *email* (RCMann@umich.edu) to message me, not Canvas.**
- You are expected to submit your lab assignments by the due date/time. **Late assignments will decrease their potential points every 24 hours from when due: 15%, 25%, 50%; 0 points after 72 hours late.**
- If there are mistakes in grading any assignment, please contact me or your lab instructor within one week after the grade is posted. The entire work will be graded again and the new grade will replace the original one, whether the new grade is higher or lower than the original grade.
- **A grade of C- or better is required in this course in order to take any future CIS courses.**
- If you need a B or A or whatever to maintain your scholarship or stay in the country or any other reason, then you'd better work hard to ensure you achieve that grade. Requests for final grade improvements will reduce your final course grade by 2 points.
- Don't ask for extra credit. If you're doing the work you won't need it

Academic Integrity

The Faculty of the University of Michigan - Dearborn, College of Engineering and Computer Science (CECS) believe that our students are honorable, ethical, trustworthy people. Students who engage in cheating of any kind place the academic integrity and reputation of our university and our college in jeopardy.

To ensure that all CECS students receive an equitable education and are prepared for the workforce, the University of Michigan - Dearborn Academic Code of Conduct will be strictly enforced in all CECS courses. All CECS students are required to read, understand, and follow the Academic Code of Conduct. Students who violate the Academic Code of Conduct or course rules are subject to all penalties indicated, including failing the course, potential loss of scholarship funds, or even expulsion from the university.

Cheating includes, *but is not limited to*:

- Receiving assistance of any kind on an exam
- Providing assistance of any kind on an exam
- Using notes, compiler, internet, books, other people during an exam
- Using materials or resources that are prohibited on any graded assignment or exam
- Completing an individual exam or assignment as a group (two or more people) project
- Collusion/Deception of any kind, including but not limited to:

- coordinating with others to obtain or distribute prohibited or unpublished materials
- giving false information to receive time extensions or re-takes
- *obtaining and using previous exams not provided by the instructor*

- Paying another person to complete any coursework, including exams
- Receiving compensation *of any kind* to complete another student's work, including exams
- Requesting and using help from Chegg, Course Hero, or any other such service
- **Submitting** lab or examination information to Chegg, Course Hero, or any other such service
- Plagiarism - using another person's work, except as authorized by your instructor
- Any "hacks" used to access Canvas content or other materials
- Any other action that violates course rules and/or the Academic Code of Conduct

If you are questioning an action you are about to take and cannot reach your instructor to verify, it is likely that you should not proceed with that action

University-wide Policies or Statements Relevant to Courses:

Please see the 'Course Policies' Menu on Canvas for information on the following:

- University Attendance Policy
- Academic Integrity Policy
- Counseling
- Disabilities Services
- Safety Statement
- Harassment, Sexual Violence, Bias, and Discrimination

Tentative Course Outline and Schedule:

The instructor reserves the right to adjust the schedule during the semester.

Week	Date	Topic	Notes
1	Jan 5	Introduction to Python 3 Variables and Expressions	
2	Jan 10, 12	Types practice exercises	
3	Jan 17, 19	Branching & Loops practice exercises	
4	Jan 24, 26	Strings practice exercises	
5	Jan 31 Feb 2	Functions practice exercises	
6	Feb 7, 9	Lists and Dictionaries practice exercises	
7	Feb 14, 16	review **Midterm**	**Midterm**
8	Feb 21, **23**		**Spring Break:** No class
9	Feb 28 Mar 2	review Midterm / Exceptions practice exercises	
10	Mar 7, 9	Classes / Inheritance practice exercises	
11	Mar 14, 16	Files practice exercises	
12	Mar 21, 23	Modules & Plotting practice exercises	
13	Mar 28, 30	Searching and Sorting practice exercises	
14	Apr 4, 6	practice exercises practice exercises	
15	Apr 11, 13	Review Review	
16	Apr 18, **25**	**Written Final Exam during final lecture** **Take home final 3-6**	**Final Exam**