

Tentative Course Plan and Syllabus
CS 1103: Computer Programming
Course Credit: 3.000

Instructor: Dr. Shital Joshi

Class Schedule: Monday, Wednesday and Friday (10:30 PM to 11:20 PM)

Class Venue: MSCS 222

Email: shital.joshi@okstate.edu

Office: MSCS 229

Office Hours: Monday (11:30 AM to 12:30 PM)

Friday (11:30 AM to 12:30 PM)

TA: TBD (@ostatemail.okstate.edu)

Prerequisites:

- MATH 1513 or higher, each with a grade of “C” or better

Course Description:

Introduction to computer programming using a high-level computer language, including subprograms and arrays. Principles of problem solving, debugging, documentation and good programming practice. Elementary methods of searching and sorting. Not intended for computer science majors.

Course Objectives:

Upon the successful completion of the course, the students will be able to:

- develop good programming practice
- understand how Python works
- perform mathematical operations
- work with and manipulate strings
- collect user input and output results
- perform flow control processing
- write functions and modules
- read from and write to the files
- work with different containers and design complex structures
- debugging

Text Book:

Cay S. Horstmann and Rance D. Necaise, "Python for Everyone", 2nd Edition, Wiley. ISBN 978-1-119-18665-6, May 2016.

Course Gradings:

Grading Criteria		Grading Scale	
Programming Assignments	40% (40 points)	90% -- 100%	A
Attendance + Class Participation	10% (10 points)	80% -- 89.99%	B
Mid Term Exam	30% (30 points)	70% -- 79.99%	C
Final Exam	20% (20 points)	60% -- 69.99%	D
Total	100% (100 points)	Less than 60%	F

Note: The total grades shown in Canvas may not reflect the proportions above. So, do your own calculation for grades using the proportions.

Assignments:

There will be a total of 6 programming assignments throughout the semester. All assignments are compulsory.

Late penalty is 10% per class day. Assignments turned after a week late (5 working days) from the due date will not be accepted.

Assignment Submissions rules and practices:

1) All home assignments will be submitted **ONLY** through Canvas.

2) When naming your home assignments, you **MUST** use the naming convention below:

The file should be named as: Assignment**_LastName_FirstName_XX.py or Assignment**_LastName_FirstName_XX.pdf (**where ** means assignment number and XX means question number**)

Example: Assignment01_Andrew_Simon_03.py or Assignment01_Andrew_Simon_01.pdf

All programming files must be saved as .py file. Algorithms and flowchart must be saved as pdf. Failure to submit in this order will automatically results in 5 points deduction.

3) You are encouraged to review the assignments when assigned (even if you don't have time to work on them right then). This way you can plan out your week and get your questions answered early. Please note that **not all assignments will be of same complexity.**

4) Any extra effort (in terms of introducing new ideas or concepts, detailed implementation and so on) will be encouraged and rewarded with extra bonus points.

Attendance:

Attendance is very important for this class. Late arrival is not encouraged. Students are responsible for knowing all the **verbal (announcement)** and written information provided by the instructor during class, including those are posted on the course web page

Course and Class regulations:

If you are having trouble understanding a concept, please contact me inside the class or in my office during office hours. Please feel free to make constructive suggestions at any time including making comments anonymously.

I encourage, and reward, individual efforts to build a community of active learners. Efforts to participate in class will be awarded **points** in the class.

- Deadlines are final and must be met. It is your responsibility to allocate time accordingly. Absolutely NO excuses will be accepted like computer crashes. Ensure that you have enough backups to allow for the worst-case scenarios, such as loss of your homework or project.
- Exams: No make-up exams will be given unless an acceptable University-approved excuse is provided promptly.
- Collaboration for assignments are allowed only in terms of concepts, ideas or techniques are allowed. However, each student needs to have their own implementation, write-ups and approach. Any violation of academic integrity would result in a zero grade for the assignment and a report to the university administration. Major violation will result in a grade F.
- Please adhere to professional behavior in class. Refrain from side conversations, surfing the internet on personal devices, answering phones/ texting, etc.
- Students with disabilities who may require reasonable accommodations should contact Office of Disabled Student Service, 326 Student Union. Please advise the instructor of such disability and the desired accommodation at some point before, during or immediately after the first scheduled class period.

Advice for performing well in this class

- Attend the class regularly and turn in the assignments well in time.
- Keep up with the weekly assignments, since many of the concepts build upon each other.
- Review the assignments when assigned (even if you don't have time to work on them right then). This way you can plan out your week and get your questions answered early. Do not wait until the last minute to work on an assignment at home.

OSU Academic Integrity Policy:

OSU is committed to maintaining the highest standards of integrity and ethical conduct. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that

violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and altering academic records) will result in an official academic sanction. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Go to <http://academicintegrity.okstate.edu/> for a video on OSU's academic integrity policy and additional information.

Tentative Course Schedule:

Class	Date	Topics	Chapter (Assignments)
Week 1	08/19	Introduction	1
	08/21	Introduction	1
	08/23	Introduction	1
Week 2	08/26	Programming with Numbers and Strings	2
	08/28	Programming with Numbers and Strings	2
	08/30	Programming with Numbers and Strings	2
Week 3	09/02	University Holiday	
3	09/04	Decisions	3
	09/06	Decisions	3 (Assignment 1)
Week 4	09/09	Decisions	3
	09/11	Decisions	3
	09/13	1 st Mid Term Review	(Assignment 1 Due)
Week 5	09/16	1 st Mid Term	
5	09/18	Loops	4
	09/20	Loops	4(Assignment 2)
Week 6	09/23	Loops	4
	09/25	Loops	4
	09/27	Functions	5 (Assignment 2 Due)
Week 7	09/30	Functions	5
	10/02	Functions	5 (Assignment 3)
	10/04	Functions	5
Week 8	10/07	Functions	5
	10/09	Lists	6 (Assignment 3 Due)
	10/11	Lists	6
Week 9	10/14	Lists	6 (Assignment 4)
	10/16	Lists	6
	10/18	Lists	6
Week 10	10/21	2 nd Mid Term Review	(Assignment 4 Due)
10	10/23	2 nd Mid Term	
25	10/25	University Holiday	
Week 11	10/28	Sets and Dictionaries	8
	10/30	Sets and Dictionaries	8
	11/01	Sets and Dictionaries	8
Week 12	11/04	Sets and Dictionaries	8
	11/06	Files and exceptions	7 (Assignment 5)
	11/08	Files and exceptions	7
	11/11	Files and exceptions	7

Week 13	11/13	Files and exceptions	7 (Assignment 5 Due)
	11/15	Files and exceptions	7
Week 14	11/18	Sorting and Searching	12 (Assignment 6)
	11/20	Sorting and Searching	12
	11/22	University Holiday	
Week 15	11/25	University Holiday	
15	11/27	Sorting and Searching	12
	11/29	Recursion	11
Week 16	12/02	Recursion	11
	12/04	Recursion	11 (Assignment 6 Due)
	12/06	Final Review	
Monday, December 9 (10:00 AM – 11:50 AM) Final Exam			
<ul style="list-style-type: none"> • This is just a tentative course schedule. It may evolve throughout the semester. • Debugging techniques will be learned along the course. • If time permit, chapter 9 (Objects and Classes) will be discussed. 			