

CSCI 100

Instructors:

Dr. Rob Smith
robert.smith@mso.umt.edu
appointment

SS 413
Office hours: Please email to set up an appointment

TA

Trent Schweitzer
Trent.schweitzer@umconnect.umt.edu
no response in 24 hrs.

Office hours: Contact via slack, then email if

How to get help:

Step 1: Google it and check the FAQs document in moodle.

Step 2: Talk to a classmate and use slack (url on moodle).

Step 3: **Use lab time to ask questions.**

Step 4: Email TA.

Step 5: Email instructor

Learning outcomes:

- Students will be able to write algorithms, involving sequential processing, branching, looping, and subprograms.
- Students will be able to use an editor of their choice to edit, execute, and run a Python program.
- Students will be able to implement file management and system configuration to support Python programming.
- Students will be able to declare variables, assign values, and perform simple math operations using Python.
- Students will be able to use math functions and modules in Python.
- Students will be able to build interactive programs, which prompt a user for input.
- Students will be able to build programs using simple logic with the use of if-statements.
- Students will be able to build programs using repetitive structures with the use of loops.
- Students will be able to implement comparison operators using and-logic and or-logic.
- Students will be able to implement advanced logic with nested branching/looping and/or reverse logic.
- Students will be able to write and use value-returning and void functions, implementing parameter lists.
- Students will be able to create interactive programs using text files as input and output.
- Students will be able to program with static and dynamic arrays in conjunction with other programming techniques.

- Students will be able to create and implement the use of objects and arrays of objects within their programs.

Tentative schedule:

WEEK	Lecture (Monday)	Due Sunday by Midnight
Aug 19 - 21	CS: What and why	Read syllabus
Aug 24-30	CS: What and why	Zybooks 1
Aug 31 – Sep 6	2 – Variables	
Sep 7 – Sep 13	NO CLASS	Zybooks 2
Sep 14 – Sep 20	3 – Types	
Sep 21 – Sep 27	3 – Types	Zybooks 3
Sep 28 – Oct 4	4 – Branching	
Oct 5 – Oct 11	4 - Branching	Zybooks 4
Oct 12 – Oct 18	5 – Loops	
Oct 19 – Oct 25	5 – Loops	Zybooks 5
Oct 26 – Nov 1	6 – Functions	
Nov 2 – Nov 8	6 – Functions	Zybooks 6
Nov 9 – Nov 15	7 – Strings	
Nov 16 – Nov 22	7 – Strings	Zybooks 7

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Grades:

Lecture attendance (20%)

Zybooks (80%) ****Your responsibility to complete by due date. No late credit.**

Meetings:

All lectures and labs will be facilitated via Zoom. For specific links and passwords, see moodle. Attendance for lecture will be taken via Zoom. Attendance for labs is optional. Labs are open study halls for support in completing Zybooks assignments. Assigned classrooms for lab will be open for in person meeting, but no instructor will be present. Students are encouraged to not use classrooms and, if unavoidable, to follow all university policies regarding COVID (see below).

Text Book:

Sign in or create an account at learn.zybooks.com

Enter zyBook code: UMTCSCI100SmithFall2020

Subscribe.

Cheating:

You are strongly encouraged to work with your peers, including working together to solve the problems, including looking at each others' code. Having other people solve the problems for you is cheating. Don't copy/paste. If you are not understanding what you are doing, you will struggle in future classes. Any form of collusion or dishonesty, as interpreted by instructors, will be prosecuted to the full extent allowable by University standards and may result in an automatic failing grade in the course.

Incompletes and Late Drops:

The university empowers instructors with discretion to approve incompletes or late drops (dropping the course after 45 days). I will not approve either as a means of avoiding a low grade or as a means of protesting course policies. Valid reasons include family emergencies, work complications, or registration issues, but I reserve the right of approval on a case-by-case basis.

Disabilities:

Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please contact us after class or in one of our offices. Please be prepared to provide a letter from your DSS Coordinator. For more information, visit the Disability Services website at <http://life.umt.edu/dss/>.

Changes to Syllabi:

The instructors reserve the right to modify syllabi and assignments as needed based on faculty, student, and/or environmental circumstances. If changes are made to the syllabus, amended copies will be dated and made available to the class.

Grading Scale:

A 93-100; A- 90-92; B+ 87-89; B 83-86; B- 80-82; C+ 77-79; C 73-76; D+ 67-69; D 63-66; D- 60-62; F < 60.

COVID Addendum:

The university has policy on meeting, masks, distancing, etc. Please read at umt.edu/coronavirus/