

# Introduction to Computer Science

## CSCI 100 Syllabus Fall 2018

### **CSCI 100 Section 00**

Instructor: Michael Cassens

Office: SS 411

Office Hours: MWF 11:00-11:50 am or by appt

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**URL: <http://umonline.umt.edu/>**

### **Overview:**

This class is designed to give you a good general understanding of software development and logical reasoning. This course focuses on introducing general programming concepts using multiple programming languages. This course will introduce all of these concepts through visual based and written languages. There will be a number of hands-on opportunities so that you can become proficient in using these tools. We will also gamify the course so that you can have an opportunity to earn more points.

- General Computing Concepts
- Logical Reasoning and Critical Thinking
- Multiple programming paradigms

Upon completing this course, a student will be able to:

- Understand basic logic using Code for Life
- Create projects in Scratch
- Create mobile applications in Studio Code
- Create stories and interactive programs in Alice
- Create a basic web presence using HTML markup
- Build visually interactive programs using Processing
- Understand basic constructors and program structures in Python using a game
- Understand the basic program constructs of the Python programming language
- Understand how to debug and enhance programs

### **Attendance:**

Attendance is mandatory however I realize there are times when you must be absent. It is your responsibility to make up the work. Please give me advance notice of any absences, and I will provide you with the same courtesy.

Class consists of a single lecture session on Monday 12:00 pm – 12:50 pm in LA 11. The labs are from 10:00-10:50 am on Wednesday and Friday, 12:00-12:50 pm on Wednesday and Friday. You are welcome to attend any of those labs. All classes are held in Social Sciences 344.

### **Grading:**

**Homework** 40%

**Projects** 50%

**Final Projects Portfolio** 10%

**Final Portfolios Turn In Monday Dec 10<sup>th</sup>, 2018 11:55 PM**

**All Assignments will be submitted through Moodle assignments. If you have trouble with your submission, please send them to**

**michael.cassens@mso.umt.edu**

**Your subject must be CSCI 100 Assignment # (e.g CSCI 100 Assignment 1)**

**If you have multiple files, please zip all your files and label your file:  
"CSCI100LastNameAssignment1.zip"**

### **Grading Scale**

100-90 A, A-	79-70 C+, C, C-	59-and beyond F
89-80 B+, B, B-	69-60 D+, D, D-	

P/NP – pass/no pass, 70 or greater is passing determined by Computer Science Department policy, which is a C or better.

### **Late Assignments:**

- Late assignments will not be accepted. Sorry for the inconvenience.

### **Requirements**

- Required Texts:
  - **None**
  - **I will assign some readings, but there are no textbooks**
- Pre-requisites for this course: **None**
- Software:
  - **Scratch**
  - **Alice**
  - **Processing 3.x**
  - **Komodo Edit (not IDE)**
  - **Python 3.6.x**
  - **PyCharm Community Edition**

### **Suggestions:**

- It would be beneficial to read and ask as many questions as you can.
- Feel free to set up an appointment if you need help. I am here to help you understand and do well.

**Collaboration:**

- I encourage you all to work together through problems – make sure you comment who you worked with at the top of the page, but copying and plagiarism will not be tolerated. If you are caught cheating, I will give you an F for the course.
- Please refer to the Student Conduct Code in how this will be dealt with: [http://life.umt.edu/VPSA/student\\_conduct.php](http://life.umt.edu/VPSA/student_conduct.php)

**Incompletes:**

“Incomplete for the course is not an option to be exercised at the discretion of students. In all cases it is given at the discretion of the instructor...” Some guidelines for receiving an incomplete are listed in the catalog which include having **a passing grade up to three weeks before the end of the semester** and being in attendance. **“Negligence and indifference are not acceptable reasons.”** Also note that there may be financial aid implications.

**Late Drops:**

The University’s policy on drops after **45** days of instruction is very specific. The Computer Science Department follows this policy rigorously. There are five circumstances under which a late drop might be approved: registration errors, accident or illness, family emergency, change in work schedule, no assessment of performance in class after this deadline. Except in very unusual circumstances, I will only approve late drops if there is documented justification for one of these circumstances.

**Disabilities:**

This course is accessible to and usable by otherwise qualified students with disabilities. To request reasonable program modifications, please consult with the instructor. Disability Services for Students will assist the instructor and student in the modification process. For more information, visit the Disability Services website at <http://life.umt.edu/dss/>.

**Class Etiquette:**

- Be respectful of your fellow classmates.
- Call me anytime if you have a question.
- Profanity and Obscenity will not be tolerated in class or assignments.

**Special Dates:**

- Aug 27, 2018 Classes Begin
- Sept 3, 2018 Labor Day – No class
- Sept 17-21, 2018 Out of town – class online
- Oct 3-5, 2018 Out of town – TA will attend
- Oct 15, 2018 Out of town – class online
- Nov 6, 2018 Election Day – No class
- Nov 12, 2018 Veteran’s Day – No class
- Nov 21-23, 2018 Thanksgiving – No class
- Dec 7, 2018 Last Day of class

- **Final Project Turn In: Dec 10<sup>th</sup>, 2018 11:55 pm**

### **Tentative Schedule:**

Syllabus Review and Overview of the course

Week 1 Introduction of Computer Concepts and Logical Reason using Code for life

Week 2 Scratch

Week 3 Scratch II

Week 4 Studio Code – online class

Week 5 Studio Code

Week 6 Alice

Week 7 Alice II

Week 8 HTML – online class

Week 9 HTML – CSS

Week 10 HTML – JavaScript

Week 11 Processing

Week 12 Python

Week 13 Thanksgiving

Week 14 Python II

Week 15 Python III

Week 16 Final Project Turn In– **Monday Dec 10<sup>th</sup>, 2018 11:55 pm**