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Fall 9-1-2021

### MART 120.50: Creative Coding I

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# Creative Coding 1

## MART 120 Syllabus Fall 2021

### **MART 120 Section 50**

Instructor: Michael Cassens

Office: McGill 230

Office Hours: By appt

Phone: (415) 787-0577

E-mail: michael.cassens@mso.umt.edu

Skype: michaelcassens

Google+: michaelcassens@gmail.com

You can contact me via TeamViewer or Zoom

Please feel free to set up an appointment using my calendaring program.

**<https://calendly.com/michael-cassens/120-meeting>**

**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 a few different 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 Artists from Code.org and Art Lab and Game Lab
- Visual based programming along with the foundations of written programming
- Build visually interactive programs using p5.js and Processing
- Understand how to debug and enhance programs

### **Attendance:**

Attendance is not mandatory however it is your responsibility to make up the work. Although the class is fully online, however, **I am asking for weekly check-in sessions from each student via email, text, Zoom, etc.**

### **Grading:**

**Homework 60%**

**Final Project/Portfolio 40%**  
**Final Portfolios/Project Friday Dec 17<sup>th</sup>, 2021 11:59 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 MART 120 Assignment # (e.g MART 120 Assignment 1)**

**If you have multiple files, please zip all your files and label your file: "MART120LastNameAssignment1.zip"**

### **Grading Scale**

<b>100-93</b>	<b>A</b>
<b>93-90</b>	<b>A-</b>
<b>89-87</b>	<b>B+</b>
<b>86-84</b>	<b>B</b>
<b>83-80</b>	<b>B-</b>
<b>79-77</b>	<b>C+</b>
<b>76-74</b>	<b>C</b>
<b>73-70</b>	<b>C-</b>
<b>69-67</b>	<b>D+</b>
<b>66-64</b>	<b>D</b>
<b>63-60</b>	<b>D-</b>
<b>59-below</b>	<b>F</b>

P/NP – pass/no pass, 70 or greater is passing determined by Media Arts 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:
  - **Visual Studio Code or Atom (or any other editor)**
  - **GitHub Desktop or Command Line**
  - **Alice**
  - **Scratch**

### **Suggestions:**

- It would be beneficial to 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: <https://www.umt.edu/student-affairs/community-standards/student-code-of-conduct-2021-pdf>

### **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 School of Visual and Media Arts 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.

### **COVID-19 policy:**

"The University of Montana requires masks for every course being held in a classroom, lab, or studio until otherwise informed. "

- Mask use is required within the classroom or laboratory.
- If you feel sick and/or are exhibiting COVID-19 symptoms, please don't come to class and contact the Curry Health Center at (406) 243-4330.
- If you are required to isolate or quarantine, you will receive support in the class to ensure continued academic progress. (All classes will be held in a hybrid format with everything recorded. There is also a supplemental website)
- UM recommends students get the COVID-19 vaccine. Please direct your questions or concerns about vaccines to Curry Health Center.
- Where social distancing (maintaining consistent 6 feet between individuals) is not possible, specific seating arrangements will be used to support contact tracing efforts.
- Class attendance and seating will be recorded to support contact tracing efforts.
- Drinking liquids and eating food is discouraged within the classroom.

- Please note this class is being recorded. Notifying students is a requirement if this is the case.

### **Land Acknowledgement:**

The Séliš-Q'łispé Cultural Committee created the language, "The University of Montana acknowledges that we are in the aboriginal territories of the Salish and Kalispel people Today, we honor the path they have always shown us in caring for this place for the generations to come."

### **Inclusion Policies:**

The University of Montana values leadership, engagement, diversity, and sustainability, because our institution is committed to respect, welcome, encourage, and celebrate the differences among us. As members of the University of Montana community, we aspire to:

- Respect the dignity and rights of all persons.
- Practice honesty, trustworthiness, and academic integrity.
- Promote justice, learning, individual success, and service.
- Act as good stewards of institutional resources.
- Respect the natural environment.

The College of the Arts and Media at the University of Montana, has chosen to actively pursue equity and access for all persons. In this charge we will be researching, planning, and implementing ways in which our culture can be more accessible, inclusive, equitable, sustainable. It is not enough to be anti-bias in principle without being equitable in action. We will implement these actions organized by a group of students, faculty, and staff across the entire College in an ongoing way.

### **Student Support Resources**

#### **Academic Misconduct and the Student Conduct Code**

"This Code of Conduct embodies and promotes honesty, integrity, accountability, and duties associated with citizenship as a student in our community at the University of Montana. This Code exists to protect the interests of the community and dignity of its members, and to challenge those behaviors which are not in accordance with our policies". The Code is available for review online at <https://www.umt.edu/student-affairs/community-standards/student-code-of-conduct-2021-pdf>

#### **Accommodations**

"Students with disabilities may request reasonable modifications by contacting the DSS office. The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and Disability Services for Students (DSS). For more information, please consult <http://www.umt.edu/disability>. "

**The Writing and Public Speaking Center** provides one-on-one tutoring to students at all levels and at any time in the writing process. Visit now. Visit often. We're ready when you are. [www.umt.edu/writingcenter](http://www.umt.edu/writingcenter).

**Mental Health and Wellbeing Policy:** The University of Montana is committed to advancing the mental health and wellbeing of its students. If you or someone you know is feeling overwhelmed, depressed, and/or in need of support, services are available. For help, visit <https://www.umt.edu/diversity/resources/mental-health.php>

### **Stay connected:**

Please join SVMA social media to stay informed about events and happenings in our school.

- Instagram: [https://www.instagram.com/umt\\_svma/](https://www.instagram.com/umt_svma/)
- Facebook: <https://www.facebook.com/UMTsvma>

### **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 30, 2021 – First Day of Class
- Sept 6, 2021 – Labor Day – No class
- Nov 11<sup>th</sup>, 2021 – Veteran's Day – No Class
- Nov 24<sup>th</sup>, 2021 – Travel Day – No class
- Nov 25<sup>th</sup> - 26<sup>th</sup>, 2021 – Thanksgiving Break – No class
- Dec 10<sup>th</sup>, 2021 – Last Day of Class – No class
- Dec 13<sup>th</sup> – Dec 17<sup>th</sup>, 2021 – Finals Week
- **Final Portfolio/Project Turn In: Dec 17<sup>th</sup>, 2021 11:59 pm**

### **Tentative Schedule:**

Week 1 Syllabus Review and Overview of the course and create GitHub repository

Week 2 Introduction of Computer Concepts and Logical Reason using Code.org

<https://studio.code.org/s/artist/stage/1/puzzle/1> and Art Lab

Week 3 Scratch

Week 4 Play and App Lab – Code.org

Week 5 Alice

Week 6 HTML

Week 7 CSS

Week 8 JavaScript

Week 9 Introduction to p5.js

Week 10 Math objects, basic math operators

Week 11 Logical and Relational Operators and Mouse Events, loops and control structures

Week 12 Functions

Week 13 Arrays

Week 14 Classes/Objects

Week 15 Work on Final Project

Week 16 Final Project Turn In- **Dec 17<sup>th</sup>, 2021 11:59 pm**