MARYLAND INSTITUTE COLLEGE OF ART

Information Visualization YR6
MVIS 101 Programming Bootcamp Pilot
March 18 - May 6, 2018
Course Syllabus

LIVE CLASS: Sundays at 8:00 pm - 9:30 pm
WEB: https://mmarquez.xyz/course/mvis-101/
FACULTY: Mateo Marquez

FACULTY COMMUNICATION

- **mmarquez@mica.edu**
- **mateomrqz@gmail.com**
- **540 728 5450**
- **Office Hours: Flexible**

The very best way to reach me is by email at **mmarquez@mica.edu**. My policy is to respond to student emails within 24 hours, if not sooner. The next best way is to **540 728 5450**. If necessary, please leave a detailed voicemail message and I will call you back.

I will respond to all communications within 24 hours of receipt.

COURSE DESCRIPTION

During this course, students will be introduced to programming for the web. The course will cover basic programming languages and tools used to build web pages, host and deploy sites. Students will also learn to use data to create interactive visualizations.

STUDENT LEARNING OBJECTIVES

By the end of the course, students will be able to:

- Gain experience with tools used to develop and publish a web site.
- Create boilerplates for a website
- Gain experience programming interactive visualizations
- Create a web-based visualization using a dataset

REQUIRED MATERIALS

Below are required textbooks, software, or other resources necessary to instruction and learning in this course.

- macOs / Linux environment prefered.
    - *Microsoft Windows users:* please let me know if you have any issues.
- Google Chrome (https://www.google.com/chrome/)
- Visual Studio Code (https://code.visualstudio.com/)
- Node.js (https://nodejs.org/en/)
- Github https://github.com)
- Codepen (https://codepen.io)
- Zeit/Now https://zeit.co/

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COURSE EXPECTATIONS

The live (synchronous) class takes place every **Sunday from 8:00 - 9:30 pm ET**.

- Because this is a pilot, students are strongly encouraged to attend all classes. If you do not plan to attend class, please notify the faculty as soon as possible.
- Students are responsible for all activities and assignments during their absence, including watching the live lecture recording.
- Use FireFox or Google Chrome as your Primary Web Browser for the best performance of both Adobe Connect and LMS

The course consists of readings, student-driven discussion and presentations, online activities and discussion forums, and hands-on assignments.

- Readings, resources, and assignments will be available on **SUNDAY** of each course week.
- Students are responsible for completing on time to ensure their ability to participate appropriately and progress successfully in the program.

Students are expected to observing the key rules of "netiquette" as detailed in the **MICA Policies + Resources** area. Courtesy drives all course policies. Courtesy means being available for every class, arriving for live sessions on time, handing in well-prepared assignments on time, and participating in class discussions in a cooperative, collegial spirit.

Assignments

Part of your grade is how well you adhere to deadlines. Unless otherwise noted, assignments will be due by the following **Friday before midnight**.

Because of the nature of this online course, please be advised that "I had a computer problem" or "I was not connected" —and so on—are not valid excuses for not having an assignment on deadline, so plan ahead.

If you miss a class you are still responsible for all of the material covered as well as any assigned homework. **BE SURE TO CHECK OUR BLOG FOR WHAT YOU MISSED!!!**

Course assignments should be completed using the software program cited in the assignment description.

- **Submission Structure:** https://mmarquez.xyz/course/mvis-101/

Root folder: MVIS-101`_##_`firstname-lastname

- **MVIS-101`_##_`firstname-lastname**
  - **assets**
    - Files, folders, scripts, etc.
  - **README.md**
    - This is called a **Markdown** file. We'll be using this file/syntax to describe the project

and include any required content.

Please compress (.zip) your root folder and submit to CANVAS.

Student Participation
Regular, informed class participation is a weighted portion of the Overall Course Grade (*see below*). The minimum expectation is that students attend all live sessions and participate meaningfully in the sessions through the chat feature or by using a microphone headset as specified in the program's *Technical Requirements* document.

Courses that have discussion forums, group sessions, a wiki, a glossary, or any other assignment that the faculty has created to inform and benefit the entire cohort will be graded both as the individual assignment and the student's meaningful contribution will be included as a portion of the course participation grade.

- By meaningful participation/contribution, the student is expected to add to or build upon, and ultimately further inform, the class discussion through research, experience, and/or access to resources that are appropriate to the topic of discussion and beneficial to the entire cohort.

OVERALL COURSE GRADING
Because this is a pilot course, students will not receive formal grades for assignments and the course will not be included on the academic transcript. Students will receive feedback from the faculty regarding their progress on assignments and projects.

MICA's ACADEMIC POLICY
Academic Policy statements are published online in MICA's Academic Bulletin: https://www.mica.edu/About_MICA/Policies_and_Handbooks.html, including a definition of plagiarism, ADA Compliance, and guidelines for students with extended illness or cause for legitimate absences.

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COURSE SCHEDULE

Week 1 Basics

Review web basics

- HTML
- CSS
- JavaScript
- Codepen

Week 2 Tooling

Get familiar with the tools to be used during the course

- Code Editor
- NPM
- Zeit Now Deployments
- Terminal

Week 3 / JavaScript

- JavaScript
- External Libraries

Week 4 / D3

- Pure D3 concepts
- External datasets

Week 5 / Project Introduction

Create a data visualization using the concepts learned through the course

- Students can choose any data source whether it is publicly or personally available.
- External and real-time sources are encouraged but not required.
- Each student will showcase their visualization under the course website.

Week 6 + 7 / Project Progress & Review

Working weeks with weekly check in

Week 8 / Virtual Exhibit

Showcase and review of each of the projects.