

# Syllabus

## **MTEC 1003, OL10 – Media Computation Skills Lab**

Tuesdays 6-8:30 pm

Location: [Zoom](#) Passcode: **081498**

Professor: Carlos X. Viera (Professor Xavier)

Course Site: [Media Computation Gitbook](#)

Slack: Media Computation Skills Lab - [Join Link](#)

Email: [CViera@citytech.cuny.edu](mailto:CViera@citytech.cuny.edu)

Office Hours: Remotely, Fridays 6-8 pm (or by appointment)

### **Course Description:**

A workshop-based lab that offers supportive training in current tools used in emerging media computation and version control. Topics covered may include but are not limited to command line interfaces, shell scripting, distributed version control systems, and remote server administration. The faculty supported, workshop environment encourages self-learning, which will help students stay relevant in the face of rapid technological change.

### **Course Goals:**

To give students an introduction to:

- Programming Fundamentals (Javascript)
- Version Control Fundamentals (Git)
- Shell Scripting Fundamentals (Bash)
- Command Line Fundamentals (Terminal)

### **Learning Outcomes:**

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

- Demonstrate mastery of basic terminal commands.
- Demonstrate competency with code versioning tools.
- Demonstrate facility in a scripting language
- Derive meaning from experience, as well as gather information from observation.
- Apply information from a variety of sources.

### **Course Materials:**

- Computer with internet access, webcam, and microphone
- Zoom
- Slack
- GitHub

### **Expectations:**

*By signing up for this class, you are making a commitment to fully participate, support your classmates as best you can, and do your part in creating a positive online working environment. For our course to run smoothly, everyone must:*

- **Arrive on time**, ready to participate and contribute.
- Spend at least **2-4 additional hours a week** (outside of class) on class projects, labs, and slides.
- **Check Gitbook Workspace** for assignments and materials (typically announced and posted at the end of class on Wednesdays).
- **Check Slack** regularly for group and private messages.
- **Back up work** regularly.
- **Reach out** to students and your instructor **with questions**.
- **Push creatively and technically**. Stay open and curious.

#### Communication:

- **To contact your instructor with a brief, private question or message**, send a DM (Direct Message) through Slack. This is preferred over email.
- **If you have a question that may be relevant to the group**, post in the #general channel on Slack for all to see and comment on.
- Use Slack for **easy communications with your classmates** as well—you can DM individuals or selected groups.
- **To discuss a longer matter** with your instructor, DM to set up an appointment for office hours.
- **If you have a tech support question**, post in the #techsupport channel or DM our CLT for assistance.

#### Participation Policy (The Rules + Regulations for Keeping the Ship Sailing)

- **We will meet on Zoom at the start of each class**. Check Slack for the meeting link and password.
- As **our work is interdependent**, it is critical for everyone to be fully present, participating, and engaging in the course.
- If absent from class, this will impact other students and lab activities. **If you will be late or absent, DM your instructor via Slack ASAP.**
- **Absences may be excused in the following cases:** illness, religious observance with advanced notice, and on a case-by-case basis for other critical events and extenuating circumstances.
- In the case of an absence, check GitHub and **contact a classmate to catch up** on what you missed. Contact the instructor if you have additional questions.

#### Grading Policy:

- 75% Labs
- 25% Participation
- Each of the 15 labs is worth 5 points, for a total of 75% of the final grade.
- Participation is 25% of the final grade. Every class you will be given a participation grade out of 3 points. 3 = full, 2 = partial/late, 1 = minimal/very late, 0 = none/absent.
- No late work will be accepted. Labs are considered late if they are not turned in (committed to GitHub) BY the Monday prior to the following lab class -- this means AT 11:59 PM on Sunday at the latest. If you have still not submitted your GitHub username to me prior to any lab deadline, the lab will be considered late and will not be graded.

**Grading Rubric:**

<b>VALUES</b>	<b>Excellent (90-100)</b>	<b>Good (80-89)</b>	<b>Fair (70-79)</b>	<b>Poor (60-69)</b>	<b>Unsatisfactory (0-59)</b>
<b>Concept</b>	Core concept is intriguing, original, and well-explored	Core concept is intriguing but lacking in examination	Core concept is present and supported by the work	Core ideas are scattered without consideration	No clear concept, or work doesn't reflect it
<b>Progress</b>	Clear and consistent progress from ideation to execution	Progress was made, but was not consistent	Evidence of procrastination, "last minute" pushes or crunch	Lack of progress in 1-2 areas resulting in project deficiencies	Little to no progress shown on the project
<b>Presentation</b>	Concept is clearly presented and strongly supported through audio, visuals, interaction, and narrative (if applicable)	Concept is supported through presentation, but 2 or more areas of the design are lacking or distracting	Concept is weakly supported through presentation, project requirements met at a "bare minimum" level	1-2 presentation requirements are not met.	3+ presentation requirements are not met.
<b>Skills</b>	Clear demonstration of skills in all development areas (visual, text, audio, interaction, programming)	Clear demonstration of skill in 2+ development areas	Demonstrates skills, but omits topics covered in class.	Evidence of skills, but underutilization of techniques learned in class	Does not use any techniques learned in class.
<b>Collaboration</b>	Consistently provides honest, supportive feedback to peers, responsible in meeting team goals, communicates effectively.	Generally supportive, responsible, and good communication, with a few issues	Multiple issues/problems with collaboration, meeting goals, or communicating	Little to no evidence of communication, goal setting, and collaboration in a team setting.	Disrespectful to fellow students work, with negative impacts to class/team dynamics.

**Academic Integrity Policy:**

Students and all others who work with information, ideas, texts, images, music, inventions, and other intellectual property owe their audience and sources accuracy and honesty in using, crediting, and citing sources. As a community of intellectual and professional workers, the College recognizes its responsibility for providing instruction in information literacy and academic integrity, offering models of good practice, and responding vigilantly and appropriately to infractions of academic integrity. Accordingly, academic dishonesty is prohibited in The City University of New York and at New York City College of Technology and is punishable by penalties, including failing grades, suspension, and expulsion. The complete text of the College policy on Academic Integrity may be found in the catalogue.

*Instructor's note: all borrowed text, code, or media used for this course must be attributed to the original creator. Any direct text quotes from another source must be specified with quotes and appropriately cited. Code borrowed from another source at more than four lines in length must be attributed as a //comment within the code itself. If you are unsure of whether or not your work may constitute plagiarism, please check with your instructor before submitting. Any instance of plagiarism will be reported to the MTEC Program Director as well as the Chair of ENT.*

### **Course Accommodations for Students with Disabilities:**

In order to receive disability-related academic accommodations students must first be registered with [The Center for Student Accessibility](#)). Students who have a documented disability or suspect they may have a disability are invited to set up an appointment with the Center (phone: 718-260-5143). If you have already registered with the Center, please provide your professor with the course accommodation form and discuss your specific accommodation.

### **A Note on City Tech's Counseling Center:**

The [Counseling Services Center](#) supports the educational, emotional and career development of City Tech students by providing opportunities for skill development, counseling and referrals that address obstacles to success. The Center is currently available to students remotely. For questions and appointments, contact the Center at [counseling@citytech.cuny.edu](mailto:counseling@citytech.cuny.edu) or 718-260-5030.

### **Inclusivity**

#### **Part I. Name + Pronoun Usage**

This course consists of individual work and group discussion. We must therefore strive to create an atmosphere of inclusion and mutual respect: all students will have their chosen gender pronoun(s) and chosen name recognized. If the class roster does not align with your name, gender, and/or pronouns, please inform the instructor.

#### **Part II. Inclusivity Statement**

It is my intent that students from all diverse backgrounds and perspectives be well-served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that the students bring to this class be viewed as an asset, resource, strength, and benefit, rather than a checklist item or worse, a hindrance. It is my intent to present materials and activities that are respectful of diversity: gender identity, sexuality, disability, age, socioeconomic status, ethnicity, race, nationality, religion, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally, or for other students or student groups. Feel free to reach out to me via email or Slack at any time about any issues concerning you or with any such ideas.

### **Required Resources:**

- [Chrome](#) web browser.
- [Visual Studio Code](#).
- Free [Github](#) account.
- [Slack](#) account ([Join Here](#))
- Mac or PC

**Supplemental Resources** (This is optional, but a good investment!)

- [Command Line Crash Course](#)
- [Pro Git](#) (Version 2)
- [Eloquent Javascript](#)
- [You Don't Know JS](#) by Kyle Simpson

**Week Outline:**

*The schedule and content are subject to change as needed.*

*Module 1 - Command Line*

- Week 1 - File System, Folders, Command Line Basics
- Week 2 - Output, Download, Compress/Archive, Uncompress/Unarchive
- Week 3 - Working with Files

*Module 2 - Source Code Management, Collaboration*

- Week 4 - Version Control Basics: init, add, commit, status, diff
- Week 5 - Review of Basic git Commands, Remote Repositories
- Week 6 - Branching and Merging

*Module 3 - JavaScript*

- Week 7 - JavaScript: Introduction, Variables, Types, Input/Output
- Week 8 - Review: Version Control + Basic Javascript
- Week 9 - Javascript Conditionals / Debugging
- Week 10 - JavaScript For Loops
- Week 11 - More for loops
- Week 12 - Javascript + Python: Function Definitions + Function Calls
- Week 13 - HTML/CSS Introductions, Review: Conditionals, Loops, and Functions

*Module 4 - Publishing on the Web*

- Week 14 – Introduction to Github Pages. Review: HTML/CSS
- Week 15 - Complete + Present Final Assignments