CUNY Common Core
Course Submission Form

Instructions: All courses submitted for the Common Core must be liberal arts courses. Courses may be submitted for only one area of the Common Core. All courses must be 3 credits/3 contact hours unless the college is seeking a waiver for another type of Math or Science course that meets major requirements. Colleges may submit courses to the Course Review Committee at any time. Courses must also receive local campus governance approval for inclusion in the Common Core.

College	Lehman College
Course Prefix and Number (e.g., ANTH 101, if number not assigned, enter XXX)	CMP 128
Course Title	Programming through Web Development
Department(s)	Computer Science
Discipline	Computer Science
Credits	3
Contact Hours	3
Pre-requisites (if none, enter N/A)	n/a
Co-requisites (if none, enter N/A)	n/a
Catalogue Description	Creation of websites using HTML, CSS, and JavaScript.
Special Features (e.g., linked courses)	
Sample Syllabus	Syllabus must be included with submission, 5 pages max recommended

Indicate the status of this course being nominated:

X current course ☐ revision of current course ☐a new course being proposed

CUNY COMMON CORE Location

Please check below the area of the Common Core for which the course is being submitted. (Select only one.)

Required ☐ English Composition ☐ Mathematical and Quantitative Reasoning ☐ Life and Physical Sciences	Flexible ☐ World Cultures and Global Issues ☐ Individual and Society ☐ US Experience in its Diversity **X** Scientific World ☐ Creative Expression

Waivers for Math and Science Courses with more than 3 credits and 3 contact hours

Waivers for courses with more than 3 credits and 3 contact hours will only be accepted in the required areas of "Mathematical and Quantitative Reasoning" and "Life and Physical Sciences." Three credit/3-contact hour courses must also be available in these areas.

If you would like to request a waiver please check here:	☐ Waiver requested
If waiver requested: Please provide a brief explanation for why the course will not be 3 credits and 3 contact hours.	
If waiver requested: Please indicate whether this course will satisfy a major requirement, and if so, which major requirement(s) the course will fulfill.	

Learning Outcomes

In the left column explain the course assignments and activities that will address the learning outcomes in the right column.

I. Required Core (12 credits)	
A. English Composition: Six credits A course in this area must meet all the learning outcomes in the right column. A student will:	
	• Read and listen critically and analytically, including identifying an argument's major assumptions and assertions and evaluating its supporting evidence.
	• Write clearly and coherently in varied, academic formats (such as formal essays, research papers, and reports) using standard English and appropriate technology to critique and improve one's own and others' texts.

	• Demonstrate research skills using appropriate technology, including gathering, evaluating, and synthesizing primary and secondary sources.
	• Support a thesis with well-reasoned arguments, and communicate persuasively across a variety of contexts, purposes, audiences, and media.
	• Formulate original ideas and relate them to the ideas of others by employing the conventions of ethical attribution and citation.
B. Mathematical and Quantitative Reasoning: Three credits A course in this area must meet all the learning outcomes in the right column. A student will:	
	• Interpret and draw appropriate inferences from quantitative representations, such as formulas, graphs, or tables.
	• Use algebraic, numerical, graphical, or statistical methods to draw accurate conclusions and solve mathematical problems.
	• Represent quantitative problems expressed in natural language in a suitable mathematical format.
	• Effectively communicate quantitative analysis or solutions to mathematical problems in written or oral form.
	• Evaluate solutions to problems for reasonableness using a variety of means, including informed estimation.
	• Apply mathematical methods to problems in other fields of study.

C. Life and Physical Sciences: Three credits A course in this area must meet all the learning outcomes in the right column. A student will:	
	1. Identify and apply the fundamental concepts and methods of a life or physical science.
	2. Apply the scientific method to explore natural phenomena, including hypothesis development, observation, experimentation, measurement, data analysis, and data presentation.
	3. Use the tools of a scientific discipline to carry out collaborative laboratory investigations.
	4. Gather, analyze, and interpret data and present it in an effective written laboratory or fieldwork report.
	5. Identify and apply research ethics and unbiased assessment in gathering and reporting scientific data.
II. Flexible Core (18 credits) Six three-credit liberal arts and sciences courses, with at least one course from each of the following five areas and no more than two courses in any discipline or interdisciplinary field.	
A. World Cultures and Global Issues	
A Flexible Core course must meet the three learning outcomes in the right column.	
	• Gather, interpret, and assess information from a variety of sources and points of view.
	• Evaluate evidence and arguments critically or analytically.
	• Produce well-reasoned written or oral arguments using evidence to support conclusions.
A course in this area (II.A) must meet at least three of the additional learning outcomes in the right column. A student will:	
	• Identify and apply the fundamental concepts and methods of a discipline or interdisciplinary field exploring world cultures or global issues, including, but not limited to, anthropology, communications, cultural studies, economics, ethnic studies, foreign languages (building upon previous language acquisition), geography, history, political science, sociology, and world literature.

	• Analyze culture, globalization, or global cultural diversity, and describe an event or process from more than one point of view.
	• Analyze the historical development of one or more non-U.S. societies.
	• Analyze the significance of one or more major movements that have shaped the world's societies.
	• Analyze and discuss the role that race, ethnicity, class, gender, language, sexual orientation, belief, or other forms of social differentiation play in world cultures or societies.
	• Speak, read, and write a language other than English, and use that language to respond to cultures other than one's own.

B. U.S. Experience in its Diversity A Flexible Core course must meet the three learning outcomes in the right column.	
	• Gather, interpret, and assess information from a variety of sources and points of view.
	• Evaluate evidence and arguments critically or analytically.
	• Produce well-reasoned written or oral arguments using evidence to support conclusions.
A course in this area (II.B) must meet at least three of the additional learning outcomes in the right column. A student will:	
	• Identify and apply the fundamental concepts and methods of a discipline or interdisciplinary field exploring the U.S. experience in its diversity, including, but not limited to, anthropology, communications, cultural studies, economics, history, political science, psychology, public affairs, sociology, and U.S. literature.
	• Analyze and explain one or more major themes of U.S. history from more than one informed perspective.
	• Evaluate how indigenous populations, slavery, or immigration have shaped the development of the United States.
	• Explain and evaluate the role of the United States in international relations.
	• Identify and differentiate among the legislative, judicial, and executive branches of government and analyze their influence on the development of U.S. democracy.
	• Analyze and discuss common institutions or patterns of life in contemporary U.S. society and how they influence, or are influenced by, race, ethnicity, class, gender, sexual orientation, belief, or other forms of social differentiation.
C. Creative Expression	
A Flexible Core course must meet the three learning outcomes in the right column.	
	• Gather, interpret, and assess information from a variety of sources and points of view.

	• Evaluate evidence and arguments critically or analytically.
	• Produce well-reasoned written or oral arguments using evidence to support conclusions.
A course in this area (II.C) must meet at least three of the additional learning outcomes in the right column. A student will:	
	• Identify and apply the fundamental concepts and methods of a discipline or interdisciplinary field exploring creative expression, including, but not limited to, arts, communications, creative writing, media arts, music, and theater.
	• Analyze how arts from diverse cultures of the past serve as a foundation for those of the present, and describe the significance of works of art in the societies that created them.
	• Articulate how meaning is created in the arts or communications and how experience is interpreted and conveyed.
	• Demonstrate knowledge of the skills involved in the creative process.
	• Use appropriate technologies to conduct research and to communicate.

D. Individual and Society A Flexible Core course must meet the three learning outcomes in the right column.	
	• Gather, interpret, and assess information from a variety of sources and points of view.
	• Evaluate evidence and arguments critically or analytically.
	• Produce well-reasoned written or oral arguments using evidence to support conclusions.
A course in this area (II.D) must meet at least three of the additional learning outcomes in the right column. A student will:	
	• Identify and apply the fundamental concepts and methods of a discipline or interdisciplinary field exploring the relationship between the individual and society, including, but not limited to, anthropology, communications, cultural studies, history, journalism, philosophy, political science, psychology, public affairs, religion, and sociology.
	• Examine how an individual's place in society affects experiences, values, or choices.
	• Articulate and assess ethical views and their underlying premises.
	• Articulate ethical uses of data and other information resources to respond to problems and questions.
	• Identify and engage with local, national, or global trends or ideologies, and analyze their impact on individual or collective decision-making.
E. Scientific World A Flexible Core course must meet the three learning outcomes in the right column.	
1. Design and Develop properly styled websites with dynamic content 2. Use HTML5 to develop properly structured web pages 3. Use CSS3 to apply proper style to web pages 4. Demonstrate proper use of variables and functions in JavaScript	• Gather, interpret, and assess information from a variety of sources and points of view.

5. Use JavaScript to respond to events 6. Use JavaScript to perform calculations and return results 7. Manipulate the DOM and CSSOM through JavaScript	
1. Perform Logical Decisions using JavaScript 2. Perform Iteration using JavaScript 3. Work with Arrays to create, retrieve, update, delete the content stored in them	• Evaluate evidence and arguments critically or analytically.
1. Design and Develop properly styled websites with dynamic content 2. Use HTML5 to develop properly structured web pages 3. Use CSS3 to apply proper style to web pages 4. Demonstrate proper use of variables and functions in JavaScript 5. Use JavaScript to respond to events 6. Use JavaScript to perform calculations and return results	• Produce well-reasoned written or oral arguments using evidence to support conclusions.
A course in this area (II.E) <u>must meet at least three of the additional learning outcomes</u> in the right column. A student will:	
1. Design and Develop properly styled websites with dynamic content 2. Use HTML5 to develop properly structured web pages 3. Use CSS3 to apply proper style to web pages	• Identify and apply the fundamental concepts and methods of a discipline or interdisciplinary field exploring the scientific world, including, but not limited to: computer science, history of science, life and physical sciences, linguistics, logic, mathematics, psychology, statistics, and technology-related studies.
1. Design and Develop properly styled websites with dynamic content 2. Use HTML5 to develop properly structured web pages 3. Use CSS3 to apply proper style to web pages 4. Demonstrate proper use of variables and functions in JavaScript 5. Use JavaScript to respond to events	• Demonstrate how tools of science, mathematics, technology, or formal analysis can be used to analyze problems and develop solutions.

6. Use JavaScript to perform calculations and return results 7. Manipulate the DOM and CSSOM through JavaScript 8. Perform Logical Decisions using JavaScript 9. Perform Iteration using JavaScript 10. Work with Arrays to create, retrieve, update, delete the content stored in them	
1. Demonstrate proper use of variables and functions in JavaScript 2. Use JavaScript to respond to events 3. Use JavaScript to perform calculations and return results 4. Manipulate the DOM and CSSOM through JavaScript 5. Perform Logical Decisions using JavaScript 6. Perform Iteration using JavaScript 7. Work with Arrays to create, retrieve, update, delete the content stored in them	• Articulate and evaluate the empirical evidence supporting a scientific or formal theory.
	• Articulate and evaluate the impact of technologies and scientific discoveries on the contemporary world, such as issues of personal privacy, security, or ethical responsibilities.
	• Understand the scientific principles underlying matters of policy or public concern in which science plays a role.

Syllabus
CMP 128: Programming through Web Development
Lehman College, City University of New York

Semester	Class Section	Class Hours	Room Number

Instructor	Email	Office Number	Office Hours

Course Description: *3 hours, 3 credits*
Creation of websites using HTML, CSS, and JavaScript.

Prerequisite: none

Course Objectives:

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

1. Design and Develop properly styled websites with dynamic content
2. Use HTML5 to develop properly structured web pages
3. Use CSS3 to apply proper style to web pages
4. Demonstrate proper use of variables and functions in JavaScript
5. Use JavaScript to respond to events
6. Use JavaScript to perform calculations and return results
7. Manipulate the DOM and CSSOM through JavaScript
8. Perform Logical Decisions using JavaScript
9. Perform Iteration using JavaScript
10. Work with Arrays to create, retrieve, update, delete the content stored in them

Grading Policy:

- Exam 1: 10%
- Exam 2: 15%
- Exam 3: 15%
- Final Exam 2: 20%
- Projects: 40%

Expectations: Students are expected to learn the material covered in class, the material in the textbook and other assigned reading. Completing homework is an essential part of the learning experience. Students should review topics from prior courses as needed using old notes and books

Honor Code: You are encouraged to work together on the overall design of the programs and homework. However, for specific programs and homework assignments, all work must be your own. You are responsible

for knowing and following Lehman's academic integrity code (available from the Undergraduate Bulletin, Graduate Bulletin, Office of Academic Standards and Evaluations, or the Smart Catalog).
All incidents of cheating will be reported to the Vice President of Student Affairs.

Email: I will be communicating with you on a regular basis throughout the semester using the email address listed on Blackboard for this course. You are required to make sure that the email address on Blackboard is your current Lehman email address and you must check it on a regular basis. **There will be no acceptable excuse for missing an email announcement.**

Homework: Projects will be assigned throughout the course to reinforce concepts covered in class. To receive full credit for a project, it must be completed by the specified due date and the program must function correctly.

Materials and Resources:

Textbook:

- Free Online Resources and Documentation

Technology:

- Access to personal computers with the necessary software tools installed and good Internet connection for accessing all course materials
- https://code.visualstudio.com/

Tutoring:
Departmental tutoring is available in the MCSLC in GI-222, on the 2nd floor of Gillet Hall.

Computer Access:
Part of this course will use university computer laboratories. These machines are for work related to this course only and a code of conduct applies to computer use in the department and on-campus. Misusing university computers could result in losing your computer access for the rest of the term, making it exceedingly difficult to complete this course.

Additional Online Resources:

- **W3School:** https://www.w3schools.com/html/default.asp
- **GitHub Repository** https://github.com
- **Html Dog:** https://www.htmldog.com/guides/

Accommodating Disabilities:
Lehman College is committed to providing access to all programs and curricula to all students. Students with disabilities who may require accommodations are encouraged to register with the Office of Student Disability Services located in Shuster Hall, Room 238. http://www.lehman.edu/student-disability-services
Telephone: 718-960-8441 Email: disability.services@lehman.cuny.edu

Recording of Remote Classes:
Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.

The link to the recordings will be made available on Blackboard