**CSCI N341 Client-Side Programming for the Web**

**Syllabus**

**Instructor:** Birhan Payli (bpayli@iupui.edu)  
**Instructor Office Hour via Zoom:** Tuesday\* (BP) 9:30 am - 10:30 am (Instructor)

**Zoom Office**: [https://iu.zoom.usLinks to an external site.](https://iu.zoom.us/j/3103666483) Any time with an appointment  
**Meeting ID**: 310 366 6483  
**Password**: 99999

**Teaching Assistants:**

Noran Abdel-Aziz (nabdelaz@iu.edu)

Office Hours  
 Tuesday 4:00pm – 5:00pm

SL 236, cubicle 2

Sravani Muddana

Office Hours

Laurie Callahan (lajcalla@iupui,edu)

Office Hours  
 Friday 2:00pm – 3:00pm  
 **https://iu.zoom.us/j/83567858031?pwd=ZWJ5QVFzY2k1L2JvbTBBK1NWVS9rQT09**  
          Meeting ID: 835 6785 8031  
          Passcode: 341

**Email Communications**

In addition to coming to the office hours, you can email the instructor and teaching assistant at any time for help. Emails will be answered within 24 hours if sent on weekdays and 48 hours if sent on weekends.

Please **do not** leave important messages as Canvas lab submission comments. The comments are not checked frequently thus it is very likely that you will not receive prompt responses.

**Course Description**

Introduction to programming focusing on the client-side programming environment. Essential algorithm design, client-side programming using languages commonly embedded in web browsers. To be successful in this course, you must have skills or experience with a programming language, as well as HTML and CSS.

**Learning Outcomes**

By the end of the class, you will gain competencies in the following areas:

* Algorithm development
* The tools of a programmer
* Data representation
* How to create and use variables and objects
* Control Structures (Sequential, Branching, Looping)
* Conditionals
* Debugging and testing methodologies
* Coding conventions and documentation
* Life cycle software development and web site processes
* How to effectively employ JavaScript utilizing the Document Object Model
* How to utilize jQuery as a client side programming abstraction layer
* How to use HTML5/CSS3 to construct industry standard Web pages
* How to write and use programming libraries
* Web development tools
* Software development from the user perspective
* Server side operating commands to support web publication
* Code editors
* (Secure) File Transfer Protocols

**Profiles of Learning for Undergraduate Success**

This course enhances the following specific PULs:

* Communicator
  + Evaluates Information
  + Conveys Ideas Effectively
* Problem solver
  + Thinks Critically
  + Analyzes, Synthesizes and Evaluates
  + Perseveres
* Innovator
  + Investigates
  + Creates/Designs
  + Confronts Challenges
  + Makes Decisions

**Required Textbook**

JavaScript and jQuery by Jon Duckett, ISBN 978-1-118-53164-8   
This is a required textbook and course deliverables are based on materials in this book. When chapters are mentioned in the course materials, they refer to chapters in this book.

**Module Pages**

Canvas Modules is a centralized location to access study guides, requirements and assignments. They are organized in chronological order. It is important that you go through all the materials linked on each page.

**Assignments**

1. **Discussions**

Discussion items give students a chance to interact with each other. Students are encouraged to give inputs that are inspirational and show novel ideas or new technologies.

1. **Quizzes**

A total of six quizzes are given throughout the semester. They are open-book-open-notes quizzes and are solely based on materials in the textbook (except the Orientation Quiz which is over this syllabus). You should study before taking a quiz. You can take a quiz at any time before it is closed. There will be no make-up quizzes if you miss one.

You are allowed two attempts for the Orientation Quiz, and a higher score between the two will be used. For the other quizzes, only one attempt is allowed. Each quiz has a 60-minute time limit.

1. **Labs**

A total of six labs are given throughout the semester. They are open for submission at the beginning of the semester and you have unlimited resubmissions. Late submissions are accepted within seven days after the due date, however, will result in 10% off the points earned for each day that is late. For instance, the first lab is due January 13, 11:59pm, and if you submit at 2am on January 15, and you receive 90% on the assignment, the final score for this assignment will be 90 – 90\*0.2 = 72. Unless you are granted an extended deadline before the due date, late penalty will apply regardless of reasons. **This policy exists so that you can still receive credits in case you forget to submit or cannot submit for any personal reasons (including technical problems with your computer or home internet). To avoid late penalties caused by these unforeseeable circumstances, you should start and submit as early as you can.**

1. **Course Project**

Course project is an individual project that should start at the beginning of the semester. You will design and develop an interactive website with a particular theme of your choice (e.g. an online game, a job application form, an online converter, a hotel reservation form), and apply the skills learned from the class to your website. You should build up the website week by week as you learn the skills, then give a mid-term submission and a final submission.

If you know what website you want to build starting from week one, you can use this idea in your lab assignments, thus you can reuse codes from labs in your course project.

All assignments are due on Sundays 11:59pm. For each topic, there is a discussion item, a quiz and a lab assignment. There is usually something due on a Sunday, except on Spring Break and the weeks when you work on the Course Project. They could be tentative.

**Late submissions are NOT accepted for Discussions, Quizzes and Course Projects.**

**Granting Exceptions**

If you cannot follow a specified deadline due to illness, school or work-related reasons, please work with the instructor for an extended deadline BEFORE the due date. Please provide documentations along with your request. For emergency situations, please contact the instructor as soon as you can.

Exceptions will surely be granted if caused by the following reasons:

1. Severe illness verified by a doctor's note
2. Death in the immediate family verified by an obituary
3. Unplanned system-wide Canvas or server outage for more than 60 minutes on the due date (confirmed by server administrators)

**Grading Policy**

Discussions: 10%  
Quizzes: 10%  
Labs: 30%  
Course Project: 30%

**Grade Scale**

>=97%: A+ 96% - 93%: A 92% - 90%: A- 89% - 87%: B+ 86% - 83%:B 82% - 80%: B-79% - 77%: C+ 76% - 73%: C 72% - 70%: C- 69% - 67%: D+ 66% - 63%: D 62% - 60%: D- <60%: F

**Software Envelope**

There are several software applications and tools necessary to complete your work. All of these tools and applications are free downloads available on the web. Lab documentation will indicate when the tools are needed.

| **Category** | **Tool** | **Notes** |
| --- | --- | --- |
| Validation for HTML | W3C [Validation Site](http://validator.w3.org/) for HTML Files | Ensures your web page has been developed to compliance standards. |
| Validation for CSS | W3C [Validation Site](http://jigsaw.w3.org/css-validator/) for CSS Files | Ensures your css file has been developed to compliance standards. |
| Secure File Transfer | [WinSCP](http://winscp.net/eng/download.php) for Windows [CyberDuck](https://cyberduck.io/) for Mac | Needed to move your work from your pc to the CSCI server. Can use other FTP products of your choosing, but must be secure |
| Development Editors | [Notepad++](https://notepad-plus-plus.org/download/) for Windows  [BBEdit](http://www.barebones.com/products/bbedit/) for Mac  (or higher end product such as Dreamweaver, etc.) | Can use other products, but look for line numbering, syntax checking and code completion |
| User Interface Testing | [UITester](http://uitest.com/) | One stop portal for many user interface tests, including disability compliance, links, etc. Some of the links require free registration |
| Javascript Script Library | jQuery | [www.jquery.com](http://www.jquery.com); [https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js](https://ajax.googleapis.com/ajax/libs/jquery/2.1.4/jquery.min.js) |
| Javascript User Interface Library | jQuery User Interface | [www.jqueryui.com](http://www.jqueryui.com); |

**Policy on Academic Dishonesty in the Department of Computer and Information Science**

**All assignments are individual work. Please do not work together or copy from external resources to avoid turning in identical codes. Please read the following department policy carefully on Academic Dishonesty. This policy will be strictly observed in this class.**

“The faculty in the Department of Computer and Information Science (henceforth, referred to as the department) values academic honesty to be essential and expects all students to conform to it. Any violation of academic integrity is considered a serious offense and will result in severe consequences.

The policy against violations of academic integrity will be enforced at the departmental level across all courses.

If a student does not abide by this policy, then, **for the first violation, he/she will receive zero points for the component of the course** on which academic misconduct occurred and will be reported to the Department Chairperson. If the violation is not related to a specific assignment or exam, the course instructor reserves the right to impose the zero-point penalty to any component of the course.

**For a second violation** of academic integrity (occurring anywhere in the graduate or undergraduate curriculum, in the same or a different semester, in the same or a different course), **the student will receive a failing grade for the course** where the second violation occurred, as enforced by the Department Chair and the School of Science Dean’s Office, and, in addition, an official reporting process will be initiated by the Department Chair as per [IUPUI's Student Conduct Policies](http://studentaffairs.iupui.edu/student-rights/student-code/).

For a third violation, the department will initiate dismissal request from the program in which the student is enrolled.

In all cases of academic integrity violation, the involved student will be notified in writing at the time the offense is observed and acknowledge the receipt of such notice in writing.

Please take the time to review the University's statement on Academic Misconduct, especially those activities related to cheating and plagiarism as outlined in the IU [Code of Student Ethics](http://www.iu.edu/~code/).

All students are responsible for observing the academic code of conduct. As noted above, failure to comply with University policies may result in disciplinary actions ranging from warnings to expulsion. All university personnel are committed to ensuring optimal worth of your education at IUPUI, which includes holding you and your fellow students to the highest ethical standards. In a Computer Science course, an effective way to allay suspicion of academic misconduct is to always include extensive program documentation with your submissions. **If you have any questions regarding academic integrity, please ask your instructor.”**

**Administrative Withdrawal**

<https://studentcentral.iupui.edu/register/administrative-withdrawal.html>

A basic requirement of this course is that you will complete all assignments within the allowed time frame. Keep in touch with your instructor if you are unable to do so. If you miss more than half of the required activities within the first 25% of the course without contacting the instructor, you may be administratively withdrawn from this course. Administrative withdrawal may have academic, financial, and financial aid implications. Administrative withdrawal will take place after the full refund period, and if you are administratively withdrawn from the course you will not be eligible for a tuition refund.

**Incomplete Grades**

Please study this website on IUPUI policy for granting Incomplete grades  
<https://studentcentral.iupui.edu/grades-progress/incompletes.html>  
According to School of Science Policy, Incomplete grades can be issued only if a student has satisfactorily (C or better) completed a minimum of 75% of the course work for the entire semester.