

Web Programming

Yi-Jheng Huang

About this Course

- Name :
 - Web Programming
- Time and Location :
 - Tuesday 09:10~12:00, R1201A

About Your Teacher

- Yi-Jheng Huang
 - Email : yjhuang@saturn.yzu.edu.tw
 - Office : R1318
 - Research : Computer graphics, Mixed Reality, Human-Computer Interaction

Course Content

- Basic concepts of websites architecture
- HTML
- CSS
- JavaScript
- npm
- Flask
- Bootstrap

We follow this website



- [w3schools.com](https://www.w3schools.com/default.asp)
 - <https://www.w3schools.com/default.asp>

The screenshot shows the w3schools.com homepage. The top navigation bar is green with the site's name and a 'LOG IN' button. Below it, a secondary navigation bar has dropdown menus for 'TUTORIALS', 'REFERENCES', 'EXAMPLES', and 'EXERCISES'. On the far right of this bar are icons for user profile, notifications, and search. The main content area features a large 'HTML' title and subtitle 'The language for building web pages'. Below this are two buttons: 'LEARN HTML' and 'HTML REFERENCE'. To the left, a sidebar lists various tutorials under 'HTML and CSS' and 'JavaScript'. A large box on the right contains an 'HTML Example' with its code:

```
<!DOCTYPE html>
<html>
<title>HTML Tutorial</title>
<body>

<h1>This is a heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

[Try it Yourself »](#)

Schedule

	Date	Class
1	9/09	Introduction
2	9/16	HTML
3	9/23	HTML
4	9/30	HTML
5	10/07	CSS
6	10/14	<i>Final Project Proposal</i>
7	10/21	CSS
8	10/28	<i>Midterm Exam Week (No Class)</i>
9	11/04	CSS

Schedule

	Date	Class
10	11/11	CSS
11	11/18	CSS
12	11/25	<i>Final Project Progress Report</i>
13	12/02	JavaScript
14	12/09	JavaScript
15	12/16	jQuery
16	12/23	<i>Final Project Demo (Final Examination Week)</i>
17	12/30	<i>Self-Directed Learning (No Class)</i>
18	01/06	<i>Self-Directed Learning (No Class)</i>

If you are unable to attend the reporting session, please notify me by September 15.

- 2025/10/14 Final project proposal
 - 2025/11/25 Final project progress report
 - 2025/12/23 Final project demo
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- Leave requests for reasons such as family trips or traveling abroad will not be accepted after September 15.

Score

- Class Roll Call 15%+
- Classroom exercise 35%
- Final Project 40%
- Self-directed learning homework 10%

Class Roll Call (15%+)

- One session for 0.5 overall points
- One day course has 3 sessions
- Using automated roll call system
- Not applicable on weeks 1, 6, 8, 12, 16, 17, 18
- That is, you can get up to 16.5 points in this item.

Classroom Exercise (35%)

- Upload to the portal, TA will check this.
- Exercise check list:
- https://docs.google.com/spreadsheets/d/1upfN4aXY5Ra0db-RUrDt-h6FpjJbxv9q_r3oO7U2N8/edit?usp=sharing
- No points for exceeding the deadline

Final Project (40%)

- Make your own website!
- The project should relate to **SGDs (永續發展)**
- One or two person as a group
- Please select presentation order here:
https://docs.google.com/document/d/15xCmslExJzNL97PF1cXmnMZBa6GW3pUDh_KOPvguBnw/edit?usp=sharing
- Three milestones:
 - Proposal (15%)
 - Progress demo (5%)
 - Demonstration (25%)

SDGs

SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY



2 ZERO HUNGER



3 GOOD HEALTH AND WELL-BEING



4 QUALITY EDUCATION



5 GENDER EQUALITY



6 CLEAN WATER AND SANITATION



7 AFFORDABLE AND CLEAN ENERGY



8 DECENT WORK AND ECONOMIC GROWTH



9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



10 REDUCED INEQUALITIES



11 SUSTAINABLE CITIES AND COMMUNITIES



12 RESPONSIBLE CONSUMPTION AND PRODUCTION



13 CLIMATE ACTION



14 LIFE BELOW WATER



15 LIFE ON LAND



16 PEACE, JUSTICE AND STRONG INSTITUTIONS



17 PARTNERSHIPS FOR THE GOALS



About any late submission

- -20 points for one day delay

Self-directed learning (10%)

- Pick a course from the listed platforms that related to **Web Programming**. Learn from the course. Write reports about it.
- You should upload three items to portal: Slides, Video, Report.

Self-directed learning (10%)

- (30%) Slides:
 - Summarize what you learned in a simple and clear presentation.
 - The slides should be at least 15 pages.
 - Your slides should include: (a) course introduction; (b) what you learn in the course; (c) learning experience.
- (30%) Video:
 - A video presenting your slides. You should appear in the video. The video should be at least 10 minutes long.

- (40%) Report:
 - This report is the script of video.
 - Clearly indicate which slide you are talking about for each section.
 - Use clear formatting so readers can easily distinguish titles and main content.
 - The report must be well-structured, with proper headings and paragraphs.
 - Filler words (e.g., "um," "ah," "you know," "like") should be removed to ensure formal and professional writing.
 - Save the final version as a PDF file for submission.

Course list

- MIT OpenCourseWare <https://ocw.mit.edu/>
- 臺大開放式課程 <http://ocw.aca.ntu.edu.tw/ntu-ocw/>
- OpenLearn <https://www.open.edu/openlearn/free-courses/full-catalogue>
- Coursera <https://www.coursera.org/courses?query=free>
- Udacity <https://www.udacity.com/catalog?price=free>
- HubSpot Academy <https://academy.hubspot.com/>
- FreeCodeCamp <https://www.freecodecamp.org/>
- edX <https://www.edx.org/>
- W3Schools <https://www.w3schools.com/>
- IBM SkillsBuild <https://skillsbuild.org/>
- Microsoft Learn <https://learn.microsoft.com/en-us/training/>
- Google Skillshop <https://skillshop.withgoogle.com/>
- Alison <https://alison.com/>

0-20 Bonus for participating in competitions !!!

- CSS Design Awards
 - <https://www.cssdesignawards.com/>
- Awwwards
 - <https://www.awwwards.com/>
- (June) ITSA全國大專校院程式設計極客挑戰
- (Oct.) InnoServe大專校院資訊應用服務創新競賽
 - <https://bhuntr.com/tw/competitions/hm61rxms8hnyj5jz7w>
- (Feb.) 全國技專校院學生實務專題製作競賽
- ...
- Others
- Discuss with the professor for more details

Competition Support

- Apply for school funding
 - <https://www.yzu.edu.tw/admin/st/index.php/tw/2016-03-25-05-42-29/2017-04-19-04-00-53>
- Apply for funding from the College of Informatics
 - <https://www.ci.yzu.edu.tw/index.html#/group2/page1>
 - https://www.ci.yzu.edu.tw/regulation/Regulations7_1704180462.pdf
- Apply for funding from IBPT
 - Under processing

Looking for a student to take care of classroom.

- +3 points in this course
- Open the classroom, air conditioning, computer, and projector

Q & A