
INTRO TO WEB AUTHORIZING in Fall 2020 (CS1005)

Course Code	CS1005	Professor(s)	Georgi Stojanov
Prerequisites	None	Office Number	PL107
Class Schedule	W: 16:20-17:55 in Q-604	Office Hours	by appointment
Credits	2	Email	gstojanov@aup.edu
Semester	Fall 2020	Office Tel. Ext.	NA

Course Description

Course Learning Outcomes

Create basic HTML documents and read more complex ones
Access, and edit HTML files stored locally and on a Web server
Understand the client/server model
Use a text editor to create an HTML file
Download html documents, images, and sounds from a Web site.
Upload/Download files to/from a Web server.
Understand the meaning of an URL in particular with relation to directory structure
Understand the general structure of HTML documents and the concept of mark-up languages
Understand the possible architectures of Web sites.
Write the HTML and CSS necessary to display Text in various fonts, colour and sizes, ETC...

General Education

N/A

Course Outline

Week 1: Digital Computers basics

-- Digital Computer = Hardware + Software

-- **Algorithms**: a general step by step procedure describing a way to achieve a required objective (e.g. a recipe how to make a chocolate cake; instructions given by your GPS how to get from point A to point B; how to do long multiplication...)

-- **Programs**: implementations of algorithms using specific **programming language** (Java, C, C++, BASIC, Python...)

-- **Programming Languages** are similar to human languages (usually English) with two main differences: human languages have many more words (e.g. 400,000+ for English) compared to couple of hundreds for programming languages. The syntax of human languages is quite flexible compared to the strict and rigid one in programming languages

-- Operating Systems are interfaces between the users and the hardware and software

-- All data stored on your drives has to be in files

-- The unit of measurement is a **bit**. This is one binary digit (0 or 1). The common unit is a **byte** which consists of eight bits (e.g. 11001011); French translation: **octet**

-- Files belong to two categories: **applications** and **data**

-- Naming convention for files: **NameYouGive.Extension**. **NameYouGive** is arbitrary choice of the user. The **Extension** after the dot tells you (and the operating system what kind of file is it: DOCX, PDF, JPG... Without it the OS would not know which application to use to open the file

-- A web page is a simple text file created with a simple text editor (e.g. TextWrangler for Macs, or Notepad for Windows) and saved where the web server expects it to be (in our case, that is the **public_web** folder in your own private AUP cloud storage.aup.edu. The public link to your page will be **ac.aup.edu/AXXXXX/MyPage.html**. (AXXXXX is your AUP ID, and MyPage.html the name of the file).

Detailed instructions for creating and publishing web pages on the AUP web server:

How to use AUP's cloud storage and the web server to publish pages?

We all have a private storage space at storage.aup.edu where you can log-in with your AUP student ID and password.

Once logged in, go to Personal>Students>AXXXX folder (AXXXX will be your AUP ID). In order to share the files you save here, you have to put them in a folder called **public_web** a folder we've created in class.

Here (in the public_web folder) we've created our first from scratch Web page. The file of the page should always have the .HTML extension (which tells the browser that this is a file describing a web page in Hyper Text Markup Language (HTML). Example MyCM1500page.HTML. Notice that you can use capital or small letters, but you should be consistent.

Below is an example of an empty web page:

```
<html>
```

```
<head>
```

```
<title>Page Title</title> <!-- Write your comments here. This text will not be shown -->
```

```
</head>
```

```
<body>
```

```
<!-- The main content of your page goes here, between the body tags -->
```

```
</body>
```

```
</html>
```

Some examples of HTML tags

-
- text in paragraphs `<p>...</p>`
 - images `` (this code will display the image called "pic\_mountain.jpg" in its original size. You can change this by introducing dimensions you want e.g. ``
 - Youtube videos, by copying and pasting in our HTML file the embedding code from youtube.com. You'll find the embed code when you click on share, below the video on YouTube.com. Example: `<iframe width="560" height="315" src="https://www.youtube.com/embed/OVmfGb8XKSg" frameborder="0" allowfullscreen></iframe>`
 - To create a hyperlink you need this code: `<a href="www.aup.edu">Visit AUP webpage</a>`

Week 2: Your First HTML steps

Week 3: Images, links, tables

Week 4: Putting it all together

Week 5: Styling your pages: Introducing CSS

Week 6: Using CSS to change the default display and position of your content

The CSS Box model

Outline of content

Display of content:

Positioning your content

Week 7: Class exercises with box model; inserting other media on a page

Week 8: adding external resources; using layouts

Attached Files:

[InsertThisCodeToAddSocialButtons.html](#) (260 B)

Inserting external resources: from videos, to google maps, to social buttons.

Embed a google map or directions

Open Google Maps.

Make sure the map, Street View image, or directions you'd like to embed shows up on the map.

In the top left corner, click the Menu .

Click Share or Embed map.

At the top of the box that appears, choose Embed map.

Add social buttons to your page:

just add the code in the file attached

Creating different layouts for a web page based on HTML, CSS, or both.

Week 9: sketch your final web site project (you can use external visual HTML editors)

You can find the detailed explanations and resources in the "Course Materials" folder.

Week 10: discussing your Final Project sketches (you may use some of the visual HTML editors we saw in class)

Best practices in Web Site design

-- [Choosing and placing the Logo](#)

-- [Color scheme](#)

Weeks 11-14: working on the final projects:

Step 1: type in the content in the HTML file by marking the logical groups (<nav> for all site navigation links; <div main> for the main content, headers and footers (if any), sidebars (if any)

Step 2: choose a color scheme;

Start 3: start repositioning and styling;

IMPORTANT:

Be proactive. Read the assigned texts. Do your homework **at home**. Ask for help via email: reply guaranteed within hours and never beyond 24 hrs. Work in group is encouraged but you always submit individually.

Textbooks

This course doesn't have any textbook.

Attendance Policy

Because the course is based on hands-on experience, students are expected to attend all lectures and participate in class. The first two classes are mandatory and you will need special permission from the teacher to continue to follow the course if you missed one of the first two classes. For additional information, please refer to the **Attendance Policy** paragraph below.

Students studying at The American University of Paris are expected to attend ALL scheduled classes, and in case of absence, should contact their professors to explain the situation. It is the student's responsibility to be aware of any specific attendance policy that a faculty member might have set in the course syllabus. The French Department, for example, has its own attendance policy, and students are responsible for compliance. Academic Affairs will excuse an absence for students' participation in study trips related to their courses.

Attendance at all exams is mandatory.

IN ALL CASES OF MISSED COURSE MEETINGS, THE RESPONSIBILITY FOR COMMUNICATION WITH THE PROFESSOR, AND FOR ARRANGING TO MAKE UP MISSED WORK, RESTS SOLELY WITH THE STUDENT.

Whether an absence is excused or not is ALWAYS up to the discretion of the professor or the department. Unexcused absences can result in a low or failing participation grade. In the case of excessive absences, it is up to the professor or the department to decide if the student will receive an "F" for the course. An instructor may recommend that a student withdraw, if absences have made it impossible to continue in the course at a satisfactory level.

Students must be mindful of this policy when making their travel arrangements, and especially during the Drop/Add and Exam Periods.

Grading Policy

Participation in class 15% (including quizzes and other in-class activities);

Homework assignments 35%;

Final project 50% (the final project will be weighted against a simple HTML test assessing the student knowledge of basic HTML markup)

Grade Scales:

[A+, A, A-] = [95, 93, 90] % [B+, B, B-] = [86, 82, 78] %

[C+, C, C-] = [72, 63-71, 57-62] %

[D+, D, D-] = [56, 52, 48] % [F] = [47 or below] %

Other

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