



COMP1710/6780

Web Development and Design

- Course lecturer and coordinator:

Dr Sabrina Caldwell

Email: sabrina.caldwell@anu.edu.au



- Course lecturer, online HTML/CSS:

Professor Tom Gedeon

Email: tom.gedeon@anu.edu.au



- COMP1710 Chief Tutor and lecturer:

David Flores-Condezo

(david.flores-condezo@anu.edu.au):

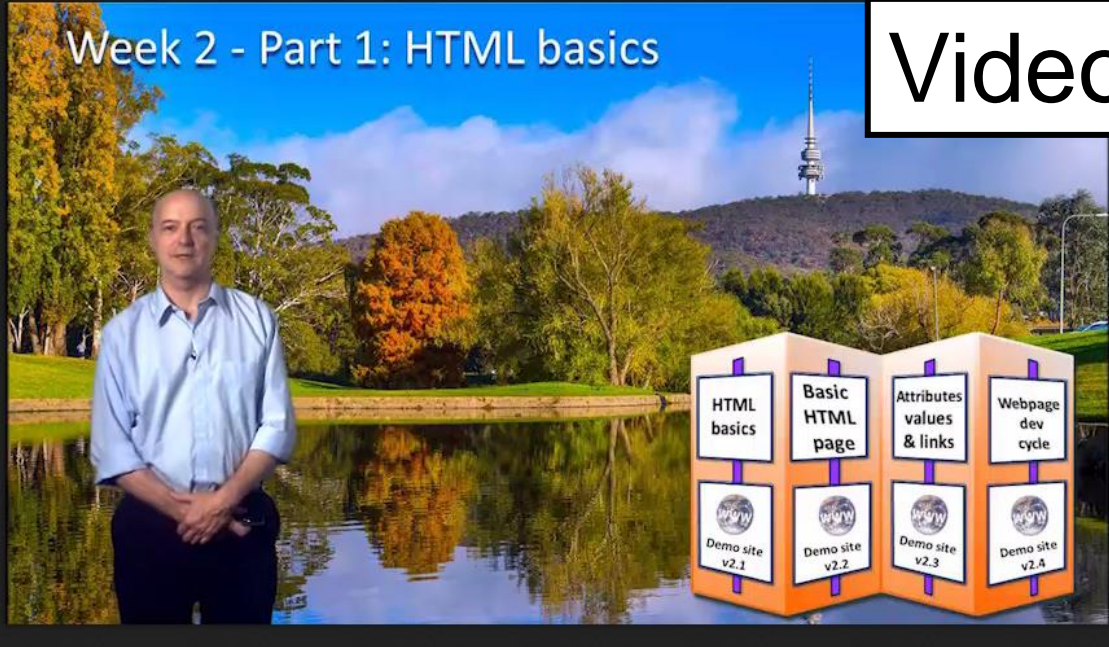
... and lots of great tutors



We will *only* contact you via your uxxxxxxx@anu.edu.au email

Week 2 - Part 1: HTML basics

Video lessons



Associated lab activities

Lab activity (id:1.3)

Lab activity:

- 1 JS Bin
- 2 Text editor

If you have never registered for JS Bin before, register now. Login and open the demo website for this part. Review the text editors discussed in the video lesson for this part, or others in which you may be interested, and choose your preferred text editor. Don't worry, you can change at any time. Familiarise yourself with the layout and functionality of your text editor



Week 2 - Part 1: HTML basics



[JS Bin features »](#)

- Getting started
- Keyboard Shortcuts
- Exporting/importing gist

[Pro features »](#)

- Private bins
- Dropbox backup
- Vanity URLs

[Blog »](#)

- The Return and The Refactor

[Help »](#)

- Vision
- How to pre-populate bins and inject content

[Donate to JS Bin »](#)

- Support JS Bin to keep the project open source & MIT for all
- Follow @js_bin on twitter
- By using JS Bin you agree to our legal terms

"Everyone should learn to program a computer because it teaches you how to think."

Steve Jobs

[New bin](#)

☐ Textarea editor mode

[Upgrade to pro now](#)

File • Add library • Share

HTML • CSS • JavaScript • Console • Output

[Login or Register](#) [Blog](#) [Help](#)

HTML •

```
<!DOCTYPE html>

<html>

<!-- This is the HEADER section..... -->

<head>
  <!-- This statement tells browsers how to understand our character set -->
  <meta charset="utf-8">
  <!-- This is our title. It is mandatory. -->
  <title>Using images in your website</title>
  <!-- this meta name is to identify website version in JS Bin -->
  <meta name="description" content="5.1.2 of Introduction to HTML5">
</head>

<!-- This is the body section -->
<body>

<!-- This is our heading for our title at the top of the page -->
<h1>Using images in your website</h1>

<!-- This is our menu, using anchor tag links. -->
<div id="menu">
  <ul>
    <li><a href="#why">Why use images</a></li>
    <li><a href="#choose">Choosing images</a></li>
    <li><a href="#use">Using images</a></li>
  </ul>
</div>

<!-- This is our anchor tag for our "Why use images" menu item -->
<a id="why"></a>

<!-- This is our subheading for my main content -->
<h2>Why use images?</h2>
```

CSS •

```
/* This is my style sheet */

/* Example of CSS replacing the HTML style sheet we used in the past */

body {background-color: white}

h1 {color: black;
    font-weight: bold;
    font-size: 36px}

h2 {color: blue;
    font-weight: bold;
    font-size: 30px}

/* 4 groups of CSS rules to format the menu division. */
/* Menu division: format the menu generally including background color, padding, margin, and border */

#menu {
  width: 600px;
  height: 35px;
  font-size: 15px;
  font-family: Tahoma, Geneva, sans-serif;
  font-weight: bold;
  text-align: center;
  background-color: #66CC33;
  border-radius: 6px;
}

/* Menu division: format the unordered list so that it appears as a menu */
#menu ul {
  height: auto;
  padding: 8px 0px;
  margin: 0px;
}

/* Menu division: format the list items so that they display as a list */
#menu li {
  display: inline;
  padding: 2px 10px;
```

Output

[Run with JS](#) [Auto-run JS](#)

Using images in your website

[Why use images](#) [Choosing images](#) [Using images](#)

Why use images?

With very few exceptions, your web pages will be easier to understand and more visually appealing to your viewers if you include relevant images. For example:

- Where would a website about hybrid roses be without photos of roses?
- Can you imagine an online art gallery without images?
- Would you try a recipe from a cooking website without a picture of how the dish should look?

How to choose images

What should I consider when choosing images?

Images will bring your website to life. But there are a few things to consider when choosing your images.

Your images should:

- enhance your message
- be consistent with your style
- be of a good quality
- load quickly

Your images should not:

SabrinaBCaldwell

[Supporter](#) Rollbar: Real-time error monitoring, alerting, and analytics for JavaScript developers

JS Bin

Who am I?



Dr Sabrina Bleecker Caldwell

School of Computing
The Australian National University

BA(Hons)/BSc 2003

1st PhD @ College of Arts & Social Sciences ANU 2008

2nd PhD College of Engineering & Computer Science ANU 2017

Information Technology Background in industry

Digital Equipment Corporation, Jostens Learning Corp,
Wizard Information Services

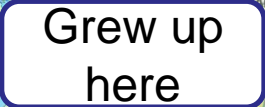
Sector experience

Private enterprise, community sector, government and academia

Weblog: <http://www.thephotographicalist.wordpress.com/>

LinkedIn: <http://au.linkedin.com/in/SabrinaCaldwell>









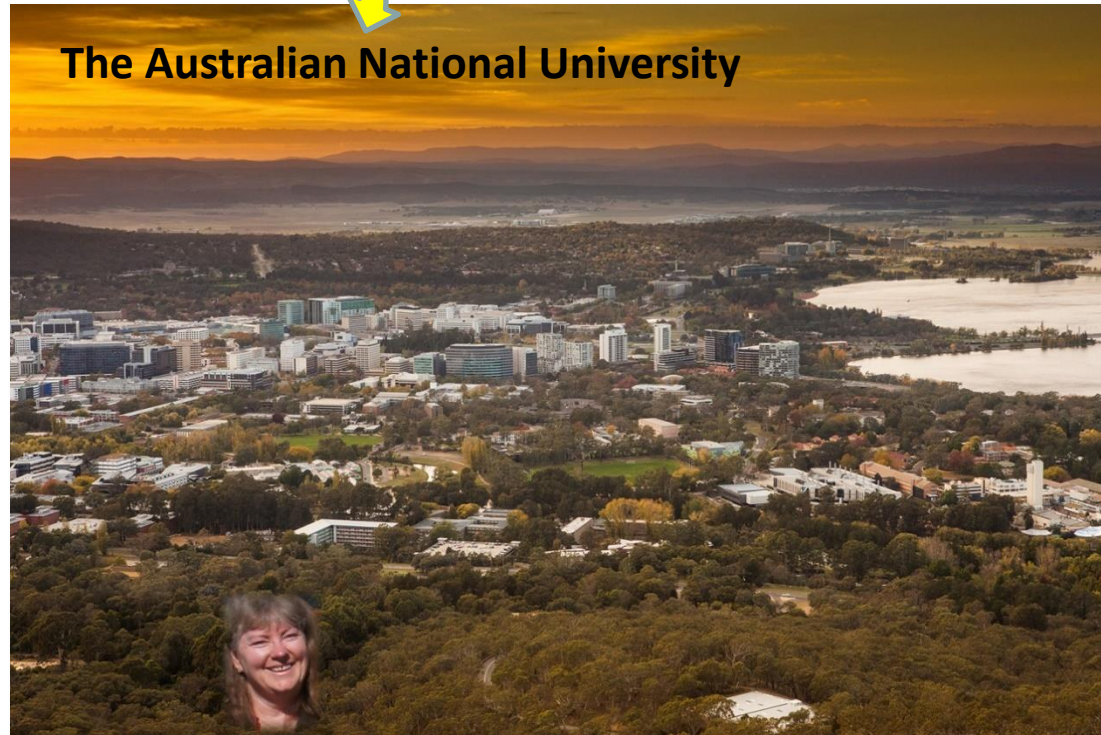
Now I teach
and research
here



The Australian National University

My Research & Teaching Areas

Software development management
Web development and design
Image credibility
AI and affective reasoning
Advances in higher education

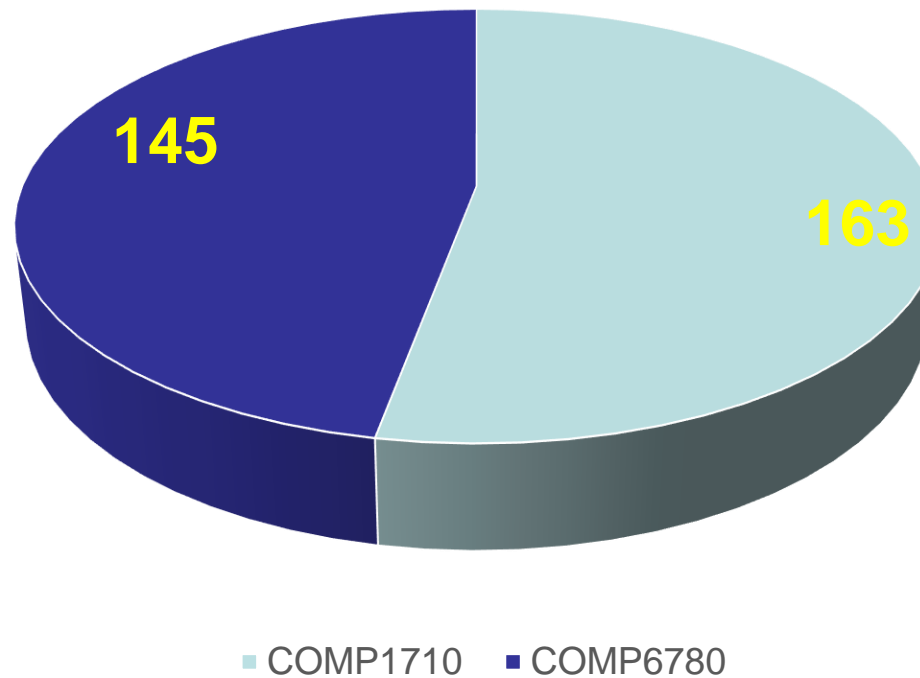


Who are you?

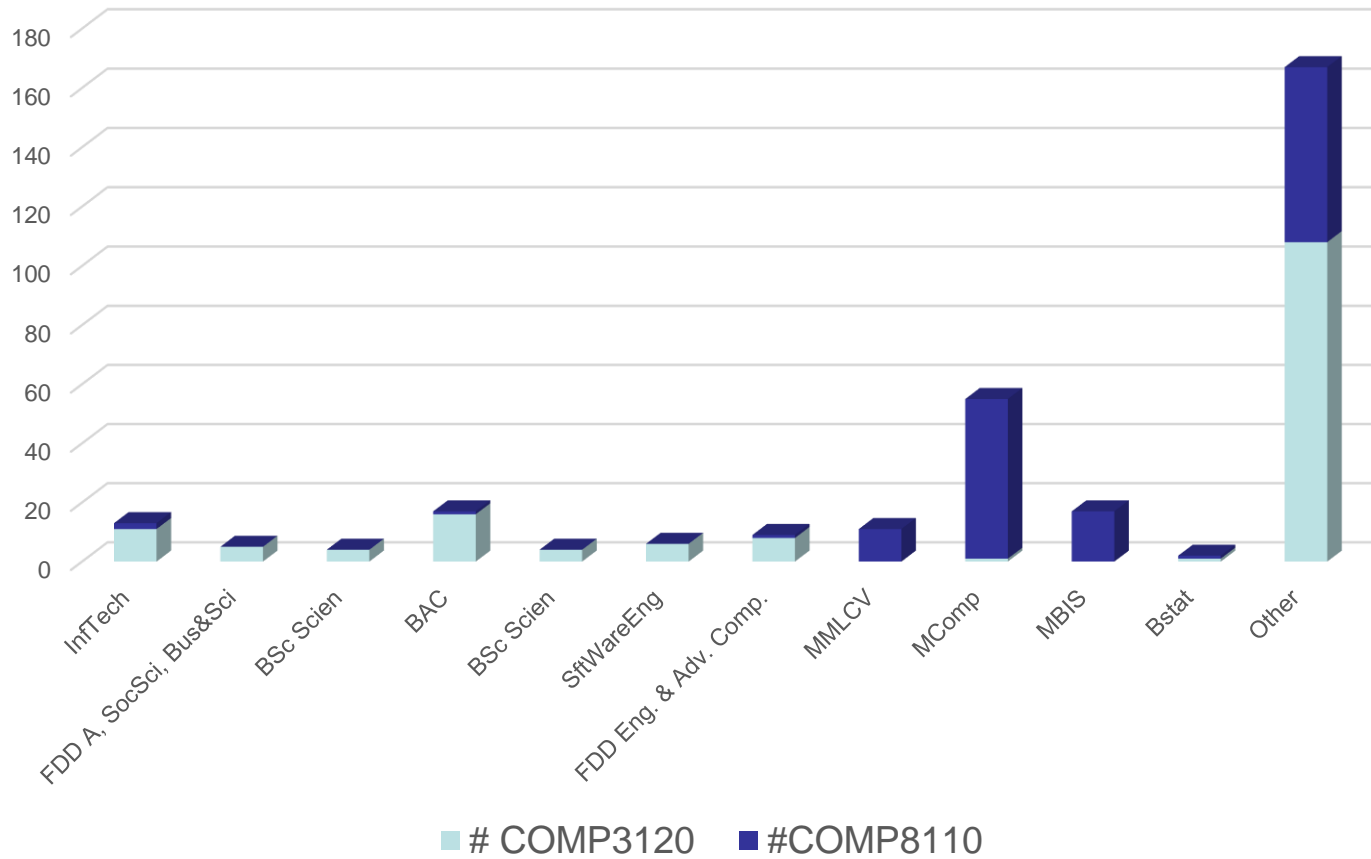


COMP1710 / COMP6780 = 306 students

COMP1710 and COMP6780



Fields of Study



More about you – a few poll questions

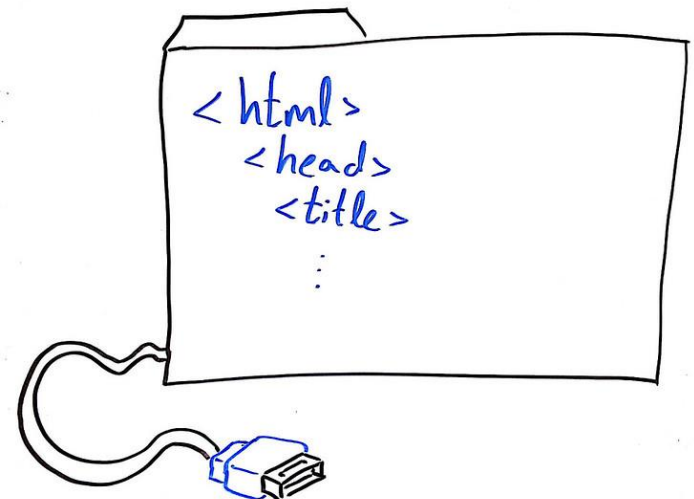




What are we all here to do?

Learn and grow new/more skills!

- This course introduces the construction of web sites and web interface/interaction design.
- Web development + design

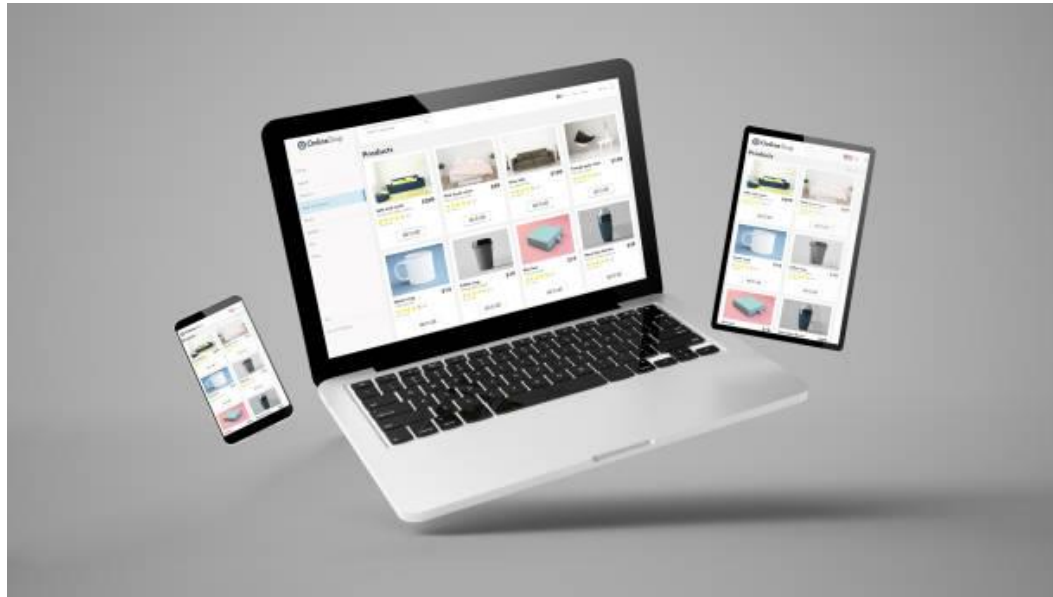


Upon successful completion of the course, you will be able to:

- Understand and be able to **develop and design interactive web sites** including multimedia content by applying current web design principles, guidelines and user-centered heuristics.
- Apply a **user-centred focus** to the design and development of web sites.
- Demonstrate **knowledge of accessibility**, compliance with standards, privacy concerns and personalisation for web sites.
- Understand and **be able to separately control the content, the appearance and the behaviour** of web sites.
- Understand and report on the **nature and practice of human-computer interaction research** in an ethical environment.

Importantly,

When you are done with this course you will have a new website that you designed and built!



Online tools and resources we will use in this course



- Lecture 1: Tuesdays 3-5pm
Lecture 2: Thursday 12pm-1pm – combination of in person and online
 - Many aspects related to building a website will be discussed:
 - Coding: HTML and CSS
 - Copyright,
 - Design – colour, good and bad web design, function
 - Image credibility
 - Ethics
 - Cybersecurity and Phishing
 - Javascript
 - Epublications
 - Front end / back end
- These are ALL important contexts within which web development must be considered.

Course Delivery: Lab-tutes

- 9-10 weeks of schedule lab-tutes
- Labs start in week 2 (next week)
- Lab tutorials are of two types: fully in person and fully online.
- In the first 6 weeks we will be delivering the MOOC version of the first half of the course material.

- Assignments (30%)
 - Assignment 1 (10%)
 - Assignment 2 (10%)
 - Assignment 3 (10%)
- Communications (25%)
 - Active participation in Piazza forum (6%)
 - Active participation in a Continuous Improvement session (4%)
 - A report on participating in user-studies (15%)
- Examinations (45%)
 - 8 online quizzes (15%)
 - Final exam: (30%)



Task	Length (Max)/Workload	%	Due Date (Canberra time)	Marks/Feedback Returned
Assignment 1 (30%)				
Section 0: Topic Submission	Preferred topics	0%	End of Week 4	Note that 'no news is good news'; we will only contact students with problematic topics
Assignment 1: Website Submission	5 Webpages minimum though we consider a smaller # of webpages with more content as equivalent	10%	End of Week 5	During teaching break
Assignment 2: Website Submission	2 Webpages minimum	10%	End of Week 7	Week 9
Assignment 3: Website Submission	Complete Website	10%	End of Week 11	Within fortnight following end of course
Communication and Participation + Report (25%) INDIVIDUAL				
Piazza forum posting + Continuous improvement contribution	TBA	10%	Posts as for Assignments 1 and 2; CI as completed in opportunities offered in 2 nd half semester.	Posts as for Assignments 1 and 2, CI as completed in 2 nd half of semester
Report	TBA	15%	End of Week 12	Within fortnight following the end of course
Examination (45%) INDIVIDUAL				
Online Quizlets		15%	End of every week	On submission
Final Exam		30%	Timing set by School in 2 nd half of semester	



Comp1710/6780

Your website assignment



Great news - you can do
this on pretty much any
topic you want!



Assignment assessments: 10 + 10 + 10

Assignment (in 3 parts) on Web site construction: 30 marks

Web site appearance design: 10 marks

Website is further developed: 10 marks

Full website with advanced components developed: 10 marks

The assignments are based on the labs, approximately every 3 labs is one assignment

Comp1710/6780 – Assignment Part 1

Worth 1 mark

From assignment.html Your *Me and My Passion*

Replace this line with your URL link to this element in your website. Notes:
Provide any notes you may have about this element here.

From Assignment Specification:

Introduce yourself and/or your passion, interest or hobby etc. Write a mission statement or list of goals similar to the idea of a brief statement of the mission and list of goals in chapter 1 of the Unusually Useful Web Book. This section should probably take 200-400 words or so.

What we will be looking for: Thorough description, clear.

Comp1710/6780 – Assignment Part 1

Worth 1 mark for CSS

From assignment.html CSS

Replace this line with your URL link to this element in your website.

Notes: Provide any notes you may have about this element here.

From Assignment Spec:

Create an external (separate) CSS file. Use at least 10 CSS rules. **Make sure your CSS includes comments that would be useful to someone taking over the maintenance of your site**, things like the purpose of each rule, exceptions to its use and the choice you made as to which selector you specified. If you create more than one CSS make sure they are deployed in a Cascading manner, i.e. there should be at least one default CSS that will be applied to all the pages in your site, with specialised CSS then being applied to specific pages of the web site.

What we will be looking for: As described in the assignment specifications

Comp1710/6780 – Assignment Part 1

Worth 1 mark

From assignment.html Site Map

Replace this line with your URL link to this element in your website.

Notes: Provide any notes you may have about this element here.

From Assignment Spec:

This page should clearly depict the organisation/structure of the web site, possibly using a table or links (or both) or an image map. *Make sure you update the site map as you expand your web site in Parts 2 and 3.*

What we will be looking for: Well developed site map that is easy to understand and navigate.

Comp1710/6780 – Assignment Part 1

Worth 1 mark

From assignment.html Source Log

Replace this line with your URL link to this element in your website.

Notes: Provide any notes you may have about this element here.

From Assignment Spec:

You will need to keep a log. A typical log describes the list of sources you used for your project and the modifications you applied to them. The origin of the source should be given in enough detail to ensure the marker can access the source whenever it is possible (URL, ISBN etc). *Make sure you update the source log as you expand your web site in Parts 2 and 3.*

What we will be looking for: Clear, comprehensive listing of all external sources with easy access (provide a link) to the source. Also note your own images, video, etc.

Comp1710/6780 – Assignment Part 1

Worth 1 mark

From assignment.html Feedback Form

Replace this line with your URL link to this element in your website.

Notes: Provide any notes you may have about this element here.

From Assignment Spec:

Create a page which takes feedback from visitors to your site via a form.

What we will be looking for: Easy to use and understand, nice formatting, relevant to your website.

Comp1710/6780 – Assignment Part 1

Worth 1 mark

Coherence

We will be looking some sense of flow and unbroken links in your site. This is only part 1 so your site is still young, but you should have some colour scheme, some similar usage of fonts, your subject should be obvious and your pages should work together.

What we will be looking for: Well structured content in your site that ‘hangs together’ around your theme.

Comp1710/6780 – Assignment Part 1

Worth 1 mark

Quality

Even in a young site the elements can be visually appealing. We will be looking for appropriate colour schemes and font strategies, harmonious use of space, a few relevant and interesting images if appropriate for your site, etc..

What we will be looking for: Visually appealing, well-designed, excellent readability, no broken links,

Comp1710/6780 – Assignment Part 1

Worth 1 mark

Coding

We will be looking at your html and css coding. We want to see well structured, clear coding with appropriate use of indenting and especially good commenting.

What we will be looking for: Well structured code using white space and indenting, and excellent commenting.

Comp1710/6780 – Assignment Part 1

Worth 1 mark

Creativity

Although later (assignment part 3) we will be expecting to see good creativity in your website, even as a young site we expect to see some of the reason why you chose the subject you chose. We will look for your use of creativity in presenting the subject (so far) to us.

What we will be looking for: Creativity that displays thought and imagination.

Comp1710/6780 – Assignment Part 1

Worth 1 mark

Submission

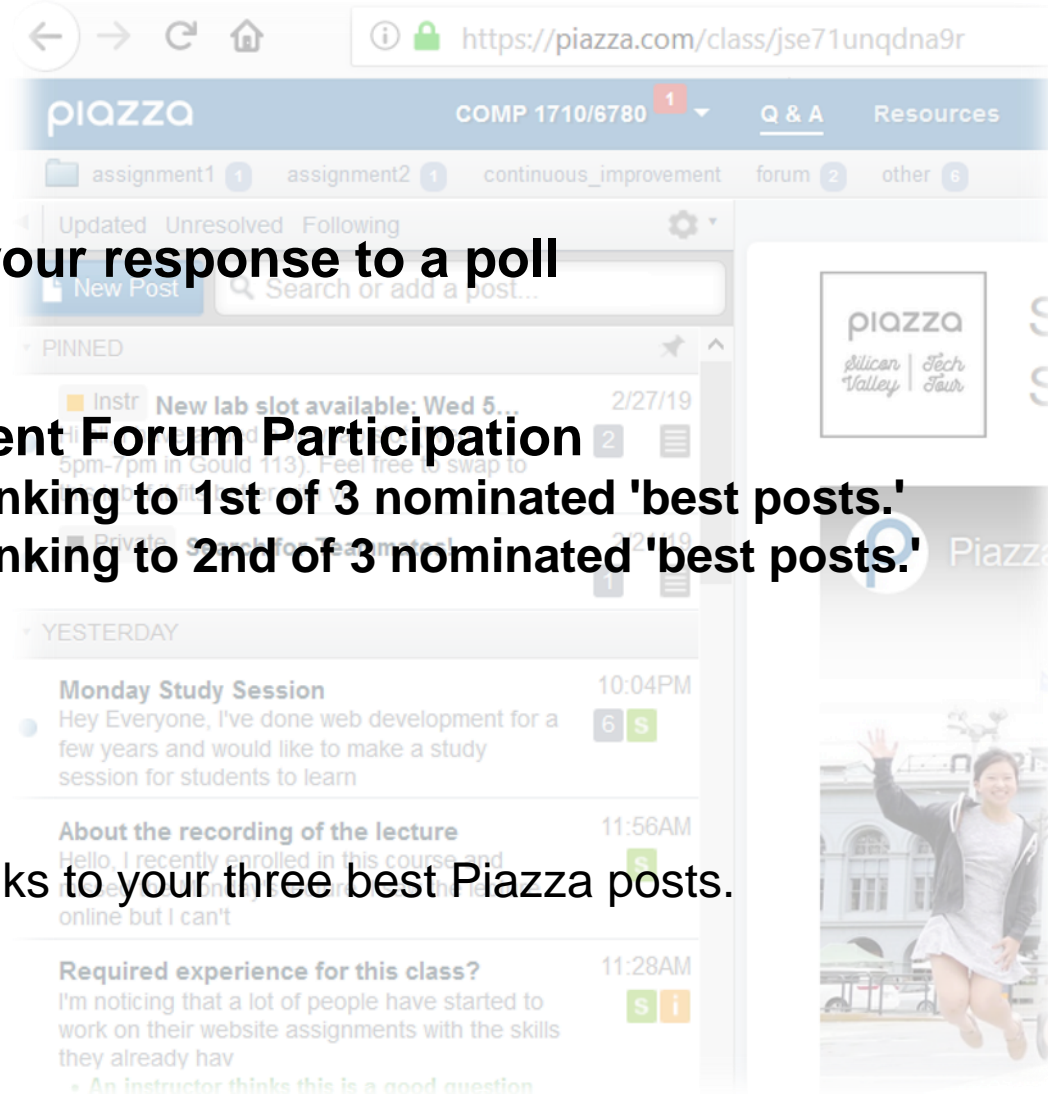
Just submitting your assignment part 1 is an important achievement. If you have submitted your assignment properly (ie we don't find only a zip file or just your student directory with no index.html) and it is on time you will get this full mark.

What we will be looking for: Properly installed website.

**Worth 4 marks –
2 posts with maximum
of 2 marks each - one will be your response to a poll**

From assignment.html Student Forum Participation
Replace this line with your URL linking to 1st of 3 nominated 'best posts.'
Replace this line with your URL linking to 2nd of 3 nominated 'best posts.'

From Assignment Spec:
Active Participation: Provide URL links to your three best Piazza posts.



What to expect in the lab (generally speaking)

Online means that the lab will take place on Zoom. Both tutors will be on the Zoom with you.

For those of you attending in person

The lab machines are Linux, which for some of you will be completely familiar and for others not. If you aren't familiar with Linux (you use Windows or Mac) you will find it very easy to use and intuitive, so don't worry.

But you can also bring your own laptop if you want.

You might like to bring your headphones, earbuds or other personal listening devices for the times when you want to listen to the MOOC video materials.



CECC Class Representatives

Class Student Representation is an important component of the teaching and learning quality assurance and quality improvement processes within the ANU College of Engineering and Computer Science (CECC).

The role of Student Representatives is to provide ongoing constructive feedback on behalf of the student cohort to Course Conveners and to Associate Directors (Education) for continuous improvements to the course.

Roles and responsibilities:

- Act as the official liaison between your peers and convener.
- Be available and proactive in gathering feedback from your classmates.
- Attend regular meetings, and provide reports on course feedback to your course convener
- Close the feedback loop by reporting back to the class the outcomes of your meetings.

– Why become a class representative?

- **Ensure students have a voice** to their course convener, lecturer, tutors, and College.
- **Develop skills sought by employers**, including interpersonal, dispute resolution, leadership and communication skills.
- **Become empowered.** Play an active role in determining the direction of your education.
- **Become more aware of issues influencing your University** and current issues in higher education.
- **Course design and delivery.** Help shape the delivery of your current courses, as well as future improvements for following years.
- Note: Class representatives will need to be comfortable with their contact details being made available via Wattle to all students in the class.
- For more information regarding roles and responsibilities, contact:
- ANUSA CECC representatives: sa.cecs@anu.edu.au

Want to be a class representative? Nominate today!

Please nominate yourself to your course convener by end of Week 2, Sem 1, 2023.

You are free to nominate yourself whether you are currently on-campus or studying remotely.

FEB 2022

Want to be a class representative? Nominate today!

Please nominate yourself to your course convener
(sabrina.Caldwell@anu.edu.au).

You are free to nominate yourself whether you are currently on-campus
or studying remotely.

We need two: One for COMP1710 and one for COMP6780

This week...

Join the next lecture on Thursday (12-1pm)

Consider getting a headstart by doing the 1st week of the online 'MOOC' lab materials. These are available now.