CS139-15 Web Development Technologies

22/23

Department
> Computer Science

Level
> Undergraduate Level 1

Module leader
> Andrew Hague

Credit value
> 15

Module duration
> 10 weeks

Assessment
> Multiple

Study location
> University of Warwick main campus, Coventry

Description

Introductory description

To introduce students to contemporary technologies used for web design and development, and to equip them with the basic technical skills required to deploy such technologies. This module is only available to students based in the Computer Science Department and cannot be taken as an unusual option by external students.

Module aims

To introduce students to contemporary technologies used for web design and development, and to equip them with the basic technical skills required to deploy such technologies.

Outline syllabus

This is an indicative module outline only to give an indication of the sort of topics that may be covered. Actual sessions held may differ.

Concepts in web design

- Usability

- Standards
- Web systems

Web development technologies

- Server programming languages (such as Python/Flask, PHP or Perl)
- Configuration and maintenance of web servers (such as Apache)
- Client programming languages (such as JavaScript)
- Asynchronous technologies (such as AJAX)
- Markup languages (including HTML5, CSS, XML, JSON)

Cloud computing and software as a service (SaaS)

Learning outcomes

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

- Demonstrate a critical appreciation of usability, accessibility and adherence to standards in the design of dynamic web sites.
- Configure and maintain a web server.
- Understand the technologies used to support dynamic web sites.
- Design and code functional web server applications.

Indicative reading list

Please see Talis Aspire link for most up to date list.

[View reading list on Talis Aspire](#)

Subject specific skills

- Designing and coding web server applications with an appreciation of usability, accessibility, and adherence to standards
- How to configure and maintain a web server

Transferable skills

- Programming in various languages (Python, PHP, HTML/CSS, etc.)

Study

Study time

Type	Required
Lectures	20 sessions of 1 hour (13%)
Practical classes	10 sessions of 2 hours (13%)
Private study	110 hours (73%)
Total	150 hours

Private study description

Private study will entail:

- Background reading of recommended texts
- Independent program design and programming related to the assignment
- Revision of lecture slides and past exam papers

Costs

No further costs have been identified for this module.

Assessment

You do not need to pass all assessment components to pass the module.

Students can register for this module without taking any assessment.

Assessment group C3

	Weighting	Study time
Assessed essays/coursework and labs	50%	

Unsupervised practical assignment and labs (40% assignment, 10% lab work). This assessment is worth more than 3 CATS and is, therefore, ineligible for self-certification.

	Weighting	Study time
In-person Examination	50%	
Examination		

- Answerbook Pink (12 page)

Assessment group R2

	Weighting	Study time
On-campus Examination - Resit	100%	
Resit Examination		

	Weighting	Study time

~Platforms - AEP

- Answerbook Pink (12 page)

Feedback on assessment

Written feedback on practical assignment

[Past exam papers for CS139](#)

Availability

Courses

This module is Optional for:

- UCSA-G500 Undergraduate Computer Science
  - Year 1 of G500 Computer Science
  - Year 1 of G500 Computer Science
- UCSA-G503 Undergraduate Computer Science MEng
  - Year 1 of G500 Computer Science
  - Year 1 of G503 Computer Science MEng
  - Year 1 of G503 Computer Science MEng
- Year 1 of UCSA-I1N1 Undergraduate Computer Science with Business Studies
- Year 1 of UCSA-G406 Undergraduate Computer Systems Engineering
- Year 1 of UCSA-G408 Undergraduate Computer Systems Engineering

This module is Option list B for:

- UCSA-G4G1 Undergraduate Discrete Mathematics
  - Year 1 of G4G1 Discrete Mathematics
  - Year 1 of G4G1 Discrete Mathematics
- Year 1 of UCSA-G4G3 Undergraduate Discrete Mathematics