

I 58.258 Web Development

Course Introduction and Useful Information

Computer Science & Information Technology
School of Mathematical & Computational Sciences
Massey University
(AKLI, DISD, MTUI & TSNI)

Revised: 2022-07-07

Outline

Course Introduction	Course Outline
<ol style="list-style-type: none">1. Course Instructor(s)2. Timetable3. Personal Time Budget4. Online Classroom5. Course Materials6. Course Policies Procedures	<ol style="list-style-type: none">1. Aim of Course2. Learning Outcomes3. Assessments4. Course Content

Course Instructors from School of Mathematical & Computational Sciences (SMCS)



- **Instructor:** *Dr Stephen Lean*
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Teaching and Learning in I58.258

- Practical course with very little theory.
- Lectures will adopt a practical approach using example code in HTML, CSS, JavaScript, C# and other Web development languages.
- Students will be required to solve weekly practical challenges that require writing code in the Web languages.

Personal Time Budget

This is a suggested personal time budget but this depends on your background and other personal circumstances.

Activity	Time Provision (Hours)
Lectures	24
Personal Study	52
Assignments	26
Lab & Tutorials	24
Exam Preparation	24
TOTAL	150

Course Materials

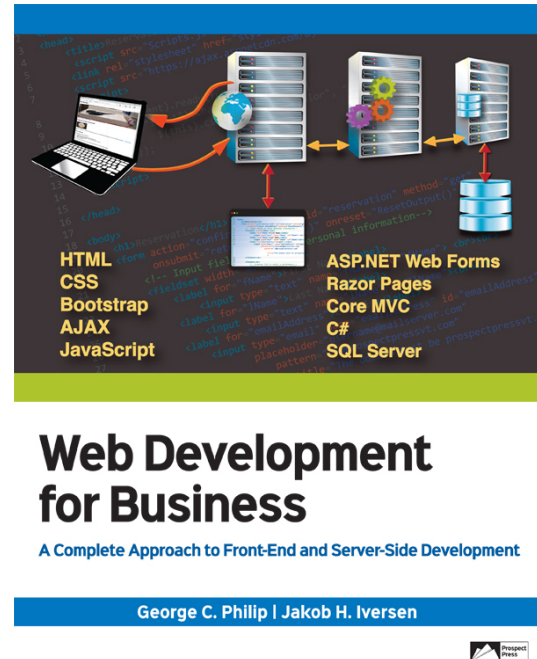
Course materials on Stream:

1. Topic slides and accompanying video or audio recordings
2. Tutorial challenges
3. Any other extra materials where instructors find necessary to provide them

Regularly visit the course's [Stream site](#).

Highly Recommended Reading for Part I and 2

- **Note:** There is no prescribed textbook for this course. However, those that would like to purchase book should look at our highly recommended book list.
- One book that covers most topics in the course.
- The book, “*Web Development for Business*” presents both *front-end* and *back-end* technologies as well as database interactions (see cover illustration).
- This comprehensive book covers HTML, CSS, Bootstrap, AJAX, JavaScript, ASP.NET Web Forms, Razor Pages, Core MVC, some C# and SQL most of which are covered in this course.
- Book specification:
 - George C. Philip and Jakob H. Iversen (2022). *Web Development for Business: A Complete Approach to Front-End and Server-Side Development*. Prospect Press. ISBN: 978-1-943153-89-3. URL: [Publisher Link](#)



Highly Recommended Reading for Part I

Highly recommended book for Part I only and covers in detail:

- HTML5
- CSS3
- JavaScript

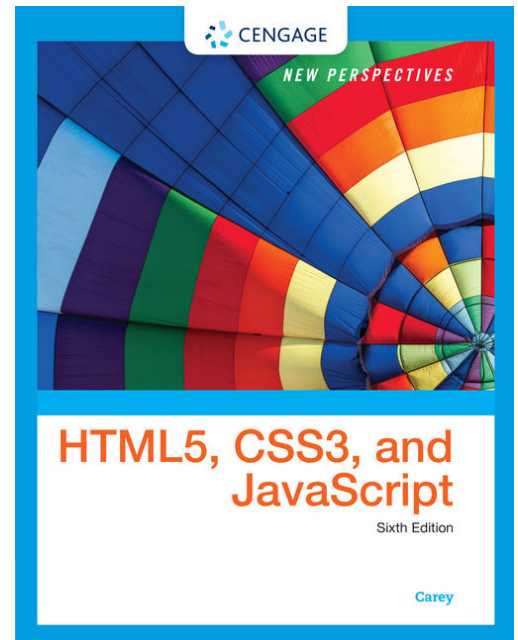
Book specification:

- Patrick Carey (2017), *New Perspectives on HTML5, CSS3, and JavaScript*, 6th Edition, **Cengage Learning**, ISBN-13: 978-1305503922

Availability:

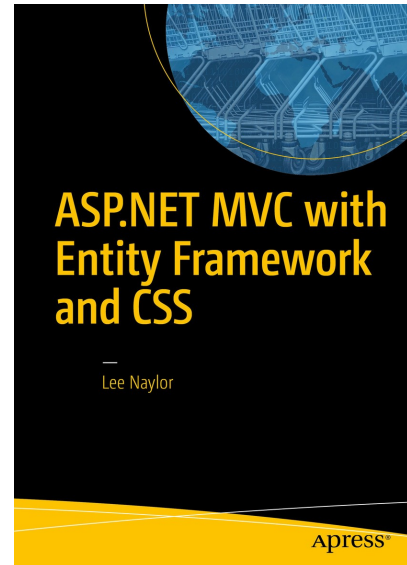
- Go to [CENGAGE, New Zealand](#)
- Massey student student discount code for 2022 semester 2 is **WOW10**

This is one of the most enjoyable book on the three key Web technologies (HTML, CSS, JavaScript) that takes a hands-on practical approach and allows learning to code well-designed Web pages from the beginning.



Highly Recommended Reading for Part 2

- Lee Naylor (2016). *ASP.NET MVC with entity framework and CSS*, APress. ISBN: 978-1-4842-2137-2. DOI: [10.1007/978-1-4842-2137-2](https://doi.org/10.1007/978-1-4842-2137-2). ([Massey Library Link](#))
- This book is freely available to all Massey University students through the University Library.
- In the book, it is stated that you should download Visual Studio 2015 Community Edition. You can, however, download the [latest version](#).
- The book also requires: [ASP.NET](#), [MICROSOFT](#), [Free](#), [Cross-platform](#), [Open source](#)
- Although this is not a prescribed textbook, it is highly recommended reading for Part 2 of the course.



Course Aim

- To introduce the basics of Webpage, Website and Web application development.

General Objectives

1. Build on 100 level information technology and/or computer science courses.
2. Help you to develop core basic skills for developing Websites and Web-based applications.
3. Support further study in other papers related to Web and software design and development at 200 and 300 levels.

Learning Objectives/Outcomes (LO)

- *At the end of the course, you should be able to:*
 1. *Discuss appropriate analysis and design methods for web-based systems including basic principles of responsive design, accessibility and user-interface design.*
 2. *Contrast the technology layers of web applications and select appropriate technologies for implementing web-based solutions.*
 3. *Create web sites containing textual and multimedia content as well as various forms of structured and semi structured data to enhance the user-experience.*
 4. *Use appropriate client- and server-side technologies for design and implementation of web-based applications.*
- NB: Learning outcomes can change before the start of the semester you are studying the course in.
- These learning outcome may also be viewed [here](#).

For any questions ...

- Direct questions to:
 - *Stream Forums*
 - *Course coordinator*