



# COIT12204 *Web Site Development*

## Term 2 - 2022

Profile information current as at 05/10/2023 08:48 am

All details in this unit profile for COIT12204 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

### General Information

#### Overview

This unit focuses on the basic technologies and skills required to build business-oriented websites in a .NET environment. You will use ASP.NET and associated technologies to design and build a basic website. The strengths and weaknesses of ASP.NET will be discussed as will alternative.NET development and deployment technologies.

#### Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

#### Pre-requisites or Co-requisites

Prerequisite: COIS12036 & (COIT12167 or COIT11237)

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

#### Offerings For Term 2 - 2022

- Brisbane
- Melbourne
- Online
- Sydney

#### Attendance Requirements

All on-campus students are expected to attend scheduled classes - in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

#### Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

## Class and Assessment Overview

### Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

### Class Timetable

#### [Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

#### [Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

### Assessment Overview

#### 1. **Practical Assessment**

Weighting: 15%

#### 2. **Practical Assessment**

Weighting: 35%

#### 3. **Online Test**

Weighting: 50%

### Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

## CQUniversity Policies

**All University policies are available on the [CQUniversity Policy site](#).**

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

## Previous Student Feedback

### Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

#### Feedback from Self Reflection

##### Feedback

The flow of earlier labs was disjointed with some material from the old text

##### Recommendation

Revise and rewrite material to fit better with the new textbook

#### Feedback from Email

##### Feedback

Lab software not available until Week 4

##### Recommendation

Communicate with the IT support team and ensure that required software is made available by Week 1

## Unit Learning Outcomes

### On successful completion of this unit, you will be able to:

1. Compare and contrast the key web development technologies available to the .NET developer
2. Design a business-oriented web site that has a consistent look and feel
3. Use an integrated suite of software tools in the development of a business-oriented web site
4. Examine the issues involved in developing and maintaining a web site for a small business
5. Assess the likely business impact of emerging web deployment technologies.

Australian Computer Society (ACS) recognises the Skills Framework for the Information Age (SFIA). SFIA is in use in over 100 countries and provides a widely used and consistent definition of ICT skills. SFIA is increasingly being used when developing job descriptions and role profiles.

ACS members can use the tool MySFIA to build a skills profile at

<https://www.acs.org.au/professionalrecognition/mysfia-b2c.html>

This unit contributes to the following workplace skills as defined by SFIA. The SFIA code is included:

- Problem Management (PBMG)
- Data Analysis (DTAN)
- Programming/Software Development (PROG)
- Information Content Authority (INCA)
- Information Content Publishing (ICPM)

## Alignment of Learning Outcomes, Assessment and Graduate Attributes



### Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
<b>1 - Practical Assessment - 15%</b>	•	•			

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
2 - Practical Assessment - 35%		•	•	•	
3 - Online Test - 50%	•			•	•

### Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes				
	1	2	3	4	5
1 - Communication	•	•	•	•	•
2 - Problem Solving		•	•	•	•
3 - Critical Thinking	•	•	•	•	•
4 - Information Literacy	•	•	•		
5 - Team Work					
6 - Information Technology Competence	•	•	•		
7 - Cross Cultural Competence					
8 - Ethical practice			•		
9 - Social Innovation					
10 - Aboriginal and Torres Strait Islander Cultures					

### Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes									
	1	2	3	4	5	6	7	8	9	10
1 - Practical Assessment - 15%	•	•	•	•		•				
2 - Practical Assessment - 35%	•	•	•	•		•		•		
3 - Online Test - 50%	•	•	•							

## Textbooks and Resources

### Textbooks

COIT12204

#### Prescribed

**Pro ASP.NET Core 3: Develop Cloud-Ready Web Applications Using MVC, Blazor, and Razor Pages**

Edition: 8th (2020)

Authors: Freeman, Adam

Apress

ISBN: 9781484254400

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

### IT Resources

**You will need access to the following IT resources:**

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Microsoft Visual Studio Express 2019 - Community Edition

## Referencing Style

All submissions for this unit must use the referencing style: [Harvard \(author-date\)](#)

For further information, see the Assessment Tasks.

## Teaching Contacts

**Gopi Akella** Unit Coordinator

[g.akella@cqu.edu.au](mailto:g.akella@cqu.edu.au)

## Schedule

### Week 1 - 11 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Getting started with ASP.NET Core and Visual Studio	Freeman Chapter Ch 1.1 and 1.2	

### Week 2 - 18 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Writing an ASP.NET Core Application	Freeman Ch 1.3	

### Week 3 - 25 Jul 2022

Module/Topic	Chapter	Events and Submissions/Topic
Visual Studio Development Tools and C# Features	Freeman Ch 1.4 and 1.5	

### Week 4 - 01 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Connecting to a Database and Tag Helpers	Freeman Ch 1.7	

### Week 5 - 08 Aug 2022

Module/Topic	Chapter	Events and Submissions/Topic
Navigation	Freeman Ch 1.8	
<b>Vacation Week - 15 Aug 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
<b>Week 6 - 22 Aug 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Shopping Cart	Freeman Ch 1.8	<b>Assignment 1</b> Due: Week 6 Friday (26 Aug 2022) 11:45 pm AEST
<b>Week 7 - 29 Aug 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Using Services	Freeman Ch 1.9	
<b>Week 8 - 05 Sep 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Checkout	Freeman Ch 1.9	
<b>Week 9 - 12 Sep 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Administration	Freeman Ch 1.10	
<b>Week 10 - 19 Sep 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Security and Deployment	Freeman Ch 1.11	
<b>Week 11 - 26 Sep 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Payment Gateways	Subject material	
<b>Week 12 - 03 Oct 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
Web APIs and Revision	Freeman Ch 1.18 and 1.19	<b>Assignment 2</b> Due: Week 12 Monday (3 Oct 2022) 11:45 pm AEST
<b>Review/Exam Week - 10 Oct 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic
		<b>Assessment 3</b> Due: Review/Exam Week Friday (14 Oct 2022) 9:00 am AEST
<b>Exam Week - 17 Oct 2022</b>		
Module/Topic	Chapter	Events and Submissions/Topic

## Term Specific Information

Unit coordinator:

**Paul Moore**

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## Assessment Tasks

# 1 Assignment 1

## Assessment Type

Practical Assessment

## Task Description

The objective of this assignment is to develop a dynamic web application with a consistent look and feel for business using an integrated suite of software tools.

You are to develop a website using ASP.NET Core 3.0 and C#. You are required to use the templates and images provided to create the website then add functionality including navigation and a product catalogue.

You must develop the web pages according to the specifications given in the assignment document on the Moodle unit web page. You should also consult the weekly lecture/tutorials on the Moodle website for help and more information on completing the assignment.

## Assessment Due Date

Week 6 Friday (26 Aug 2022) 11:45 pm AEST

## Return Date to Students

Week 8 Friday (9 Sept 2022)

## Weighting

15%

## Assessment Criteria

The objectThe assessment criteria will include:

- Navigation
- Database
- Product Catalog
- Code Quality

More details will be available on the Moodle site.

## Referencing Style

- [Harvard \(author-date\)](#)

## Submission

Online

## Learning Outcomes Assessed

- Compare and contrast the key web development technologies available to the .NET developer
- Design a business-oriented web site that has a consistent look and feel

## Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence

# 2 Assignment 2

## Assessment Type

Practical Assessment

## Task Description

The objective of this assignment is to develop and test a dynamic web application for business using an integrated suite of software tools.

You are to further develop the website from Assignment 1 using ASP.NET Core 3.0 and C# to add additional functionality including a shopping cart, a checkout and product administration to the website.

You must develop the web pages according to the specifications given in the assignment document on the Moodle unit website. You should also consult the weekly lecture/tutorials on the Moodle website for help and more information on completing the assignment.

## Assessment Due Date

Week 12 Monday (3 Oct 2022) 11:45 pm AEST

**Return Date to Students**

Exam Week Friday (21 Oct 2022)

**Weighting**

35%

**Assessment Criteria**

The assessment criteria will include:

- Shopping Cart
- Checkout
- Product Administration and security
- Code Quality

More details will be available on the Moodle site.

**Referencing Style**

- [Harvard \(author-date\)](#)

**Submission**

Online

**Learning Outcomes Assessed**

- Design a business-oriented web site that has a consistent look and feel
- Use an integrated suite of software tools in the development of a business-oriented web site
- Examine the issues involved in developing and maintaining a web site for a small business

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

## 3 Assessment 3

**Assessment Type**

Online Test

**Task Description**

This assessment will consist of questions with justifications. You may be asked to:

- Identify problems and explain the reasoning
- Complete partially completed solution providing reasoning for the chosen method being appropriate
- Explain the theoretical aspects of the methods in a solution
- Suggest performance improvements for a given solution

The assessment will consist of both short answers and discussion. The questions will be theoretical and practical, requiring good knowledge of underlying concepts to provide reasoning. The questions will be focused on the topics taught in Weeks 1 - 12.

This assessment will be in the form of a Take Home Exam. You will have a 24 hour window during Review/Exam week in which to download the Examination document from Moodle, and then upload your responses. The Take Home Exam will be provided as a Microsoft Word (.docx) document. You will provide your responses directly in this document and then upload the document via Moodle when you are finished.

Additional details will be provided on the Moodle site.

**Assessment Due Date**

Review/Exam Week Friday (14 Oct 2022) 9:00 am AEST



**Return Date to Students**

On Grade Certification day

**Weighting**

50%

**Assessment Criteria**

You will be tested on your knowledge of ASP.NET Core 3.0.

**Referencing Style**

- [Harvard \(author-date\)](#)

**Submission**

Online

**Submission Instructions**

Online via Moodle

**Learning Outcomes Assessed**

- Compare and contrast the key web development technologies available to the .NET developer
- Examine the issues involved in developing and maintaining a web site for a small business
- Assess the likely business impact of emerging web deployment technologies.

**Graduate Attributes**

- Communication
- Problem Solving
- Critical Thinking

## Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

### What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

### Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

### Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

### What can you do to act with integrity?



#### Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



#### Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



#### Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem