COIT12204 *Web Site Development*
Term 2 - 2023

Profile information current as at 01/05/2024 07:13 am

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 - 2023

- 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
Assessment marking criteria.

Recommendation
Assessment marking criteria needs to be enhanced with allocating marks for documentation. Both Assessment 1 and 2 have no room for documentation and assessments cover only design and coding parts. Unit needs to evaluate students' programming skills as well as documentation for their assessment project.

Feedback from Student Feedback

Feedback
Students reported that the assessments were not challenging enough.

Recommendation
n the next offering, an open-ended task will be incorporated so that students can select features of their choice into their web application development to adjust the complexity level within a given boundary.

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

— N/A Level ∘ Introductory Level • Intermediate Level • Graduate Level ∘ Professional Level ∘ Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Practical Assessment - 15%	•	•			
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

Schedule

Week 1 - 10 Jul 2023

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 - 17 Jul 2023

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

Week 3 - 24 Jul 2023

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

Week 4 - 31 Jul 2023

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

Week 5 - 07 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
Navigation	Freeman Ch 1.8	

Vacation Week - 14 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic

Week 6 - 21 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
Shopping Cart	Freeman Ch 1.8	**Practical Assessment 1 (worth 15%) is due on Friday, 25, August 2023 23:59 Hours** **Assignment 1** Due: Week 6 Friday (25 Aug 2023) 11:59 pm AEST

Week 7 - 28 Aug 2023

Module/Topic	Chapter	Events and Submissions/Topic
Using Services	Freeman Ch 1.9	

Week 8 - 04 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Checkout	Freeman Ch 1.9	

Week 9 - 11 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Administration	Freeman Ch 1.10	

Week 10 - 18 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Security and Deployment	Freeman Ch 1.11	

Week 11 - 25 Sep 2023

Module/Topic	Chapter	Events and Submissions/Topic
Payment Gateways	Subject material	

Week 12 - 02 Oct 2023

Module/Topic	Chapter	Events and Submissions/Topic
Web APIs and Revision	Freeman Ch 1.18 and 1.19	**Practical Assessment 2 (worth 35%) is due on Friday, 06, October 2023 23:59 Hours** **Assignment 2** Due: Week 12 Friday (6 Oct 2023) 11:59 pm AEST

Review/Exam Week - 09 Oct 2023

Module/Topic	Chapter	Events and Submissions/Topic
		Online Test (worth 50%) is due during exam week.

Exam Week - 16 Oct 2023

Module/Topic	Chapter	Events and Submissions/Topic

Term Specific Information

Unit Coordinator:
Gopi Akella
Level 3, 120 Spencer Street, Melbourne VIC 3000
Email:g.akella@cqu.edu.au

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 (25 Aug 2023) 11:59 pm AEST

Return Date to Students
Week 8 Friday (8 Sept 2023)

Weighting
15%

Assessment Criteria
The assessment criteria will include:

- Navigation
- Database
- Product Catalog
- Code Quality
- Documentation

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 Friday (6 Oct 2023) 11:59 pm AEST

Return Date to Students
Exam Week Friday (20 Oct 2023)

Weighting
35%

Assessment Criteria
The assessment criteria will include:

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

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

The online test will be conducted during exam week

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