

GAC Computing

Syllabus Checklist

Tick one box per statement: ☐ not yet ☐ nearly ☐ confident.

1. GAC005 Computing I: Introduction to Computing for Academic Study

GAC005 I:

1.1 Search Literacy

- ☐☐☐ Understand, evaluate and discriminate between available and emerging technologies to use, store and protect information.
- ☐☐☐ Use the Internet to research, interpret and interactively and ethically manage academic projects.

1.2 Collaborative Writing

- ☐ ☐ ☐ Create, revise and publish academic documents using a word processing program.
- ☐ ☐ ☐ Use open source platforms to collaboratively create and share academic documents.

1.3 Project Management

- ☐ ☐ ☐ Use the Internet to research, interpret and interactively and ethically manage academic projects.
- ☐ ☐ ☐ Use open source platforms to collaboratively create and share academic documents.

1.4 Creating Effective Presentations

- ☐☐☐ Create an academic oral presentation using a presentation software program.

1.5 Enhancing your Presentation

- ☐☐☐ Create an academic oral presentation using a presentation software program.

1.6 The Making of a Video

- ☐☐☐ Understand, evaluate and discriminate between available and emerging technologies to use, store and protect information.
- ☐☐☐ Create an academic oral presentation using a presentation software program.

2. GAC011 Computing II: Web Development

2.1 Designing a Website

- ☐☐☐ Design effective websites using aesthetics and formal concepts of layout and organization to communicate effectively using visual components.
- ☐☐☐ Incorporate best practices in navigation, usability, and written content to design websites that give users easy access to the information they seek.

2.2 Creating a Website Using Html HTML

- ☐☐☐ Create and publish a website using scripting languages to add interactive components.

2.3 Using CSS to Enhance your Website

- Design effective websites using aesthetics and formal concepts of layout and organization to communicate effectively using visual components.
- Create and publish a website using scripting languages to add interactive components.

2.4 Adding Interactivity with JavaScript

- Create and publish a website using scripting languages to add interactive components.

2.5 Launching your Website

- ☐☐☐ Incorporate best practices in navigation, usability, and written content to design websites that give users easy access to the information they seek.
- ☐☐☐ Use the website to complement academic work conducted in other media.

2.6 Social Media Marketing

- ☐ ☐ ☐ Use social media to promote or find a website.

3. GAC017 Computing III: Data Science and Web Apps

GAC017 III:

3.1 JavaScript for Web App's back-end

- ☐☐☐ Understand the basic components of a Web Application.

3.2 Back-end Programming

- Adapt a back-end application using scripting languages to interact with databases.

3.3 Introduction to Databases

- ☐☐☐ Create a database with multiple tables.

3.4 SQL for Back-end Programming

- ☐☐☐ Analyze data using SQL in order to make decisions.

3.5 Connecting JavaScript with SQL

- ☐ ☐ ☐ Adapt a back-end application using scripting languages to interact with databases.
- ☐ ☐ ☐ Analyze data using SQL in order to make decisions.

3.6 Data Science

- ☐☐☐ Applying Data Science to other academic areas.