1. GAC005 Computing I: Introduction to Computing for Academic Study
Weeks 1–10

GAC005 计算机 I：学术学习计算机入门

They should be able to

1. Understand, evaluate and discriminate between available and emerging technologies to use, store and protect information.
2. Use the Internet to research, interpret and interactively and ethically manage academic projects.
3. Create, revise and publish academic documents using a word processing program.
4. Use open source platforms to collaboratively create and share academic documents.
5. Use the Internet to research, interpret and interactively and ethically manage academic projects.
6. Use open source platforms to collaboratively create and share academic documents.
7. Create an academic oral presentation using a presentation software program.
8. Create an academic oral presentation using a presentation software program.
9. Understand, evaluate and discriminate between available and emerging technologies to use, store and protect information.
10. Create an academic oral presentation using a presentation software program.

Stage	Use	Your notes
Starter 10 min · retrieval practice	Topic quiz 01 (10 questions, answers on sheet 2)	
Teach the new content	Handout 01 Slide deck 01 Vocabulary list 01	
Practice guided then independent	Exercise sheets 1.1, 1.2, 1.3, 1.4, 1.5, 1.6	
Check before they leave	*nothing in the Library for this stage yet*	
Homework set from the Library	Any unused exercise sheet above	

2. GAC011 Computing II: Web Development

Weeks 11–20

GAC011 计算机 II：网页开发

They should be able to

1. Design effective websites using aesthetics and formal concepts of layout and organization to communicate effectively using visual components.
2. Incorporate best practices in navigation, usability, and written content to design websites that give users easy access to the information they seek.
3. Create and publish a website using scripting languages to add interactive components.
4. Design effective websites using aesthetics and formal concepts of layout and organization to communicate effectively using visual components.
5. Create and publish a website using scripting languages to add interactive components.
6. Create and publish a website using scripting languages to add interactive components.
7. Incorporate best practices in navigation, usability, and written content to design websites that give users easy access to the information they seek.
8. Use the website to complement academic work conducted in other media.
9. Use social media to promote or find a website.

Stage	Use	Your notes
Starter 10 min · retrieval practice	Topic quiz 02 (10 questions, answers on sheet 2)	
Teach the new content	Handout 02 Slide deck 02 Vocabulary list 02	
Practice guided then independent	Exercise sheets 2.1, 2.2, 2.3, 2.4, 2.5, 2.6	
Check before they leave	*nothing in the Library for this stage yet*	
Homework set from the Library	Any unused exercise sheet above	

3. GAC017 Computing III: Data Science and Web Apps **Weeks 21–30**

GAC017 计算机 III：数据科学与网页应用

They should be able to

1. Understand the basic components of a Web Application.
2. Adapt a back-end application using scripting languages to interact with databases.
3. Create a database with multiple tables.
4. Analyze data using SQL in order to make decisions.
5. Adapt a back-end application using scripting languages to interact with databases.
6. Analyze data using SQL in order to make decisions.
7. Applying Data Science to other academic areas.

Stage	Use	Your notes
Starter 10 min · retrieval practice	Topic quiz 03 (10 questions, answers on sheet 2)	
Teach the new content	Handout 03 Slide deck 03 Vocabulary list 03	
Practice guided then independent	Exercise sheets 3.1, 3.2, 3.3, 3.4, 3.5, 3.6	
Check before they leave	*nothing in the Library for this stage yet*	
Homework set from the Library	Any unused exercise sheet above	