# GAC Science

**Syllabus Checklist · 大纲自查表**

Tick one box per statement: ☐ not yet ☐ nearly ☐ confident. 每条打一个勾：尚未掌握 / 快会了 / 有把握。

## 1. GAC013 Science II: Scientific Principles GAC013 科学 II：科学原理

### 1.1 The History of Science 科学史

☐☐☐ Demonstrate knowledge and understanding of the historical development of scientific ideas, and apply that knowledge to differentiate between the different areas of science.

### 1.2 The Scientific Method 科学方法

☐☐☐ Apply the scientific method to plan and conduct scientific investigations.

☐☐☐ Create an investigation report following scientific and academic conventions.

### 1.3 The Language of Science 科学的语言

☐☐☐ Demonstrate knowledge of scientific concepts and terminology from the different areas of science.

☐☐☐ Demonstrate familiarity with and ability to use scientific language, units and notation correctly.

### 1.4 The Organization of Science 科学的组织方式

☐☐☐ Demonstrate knowledge and understanding of the historical development of scientific ideas, and apply that knowledge to differentiate between the different areas of science.

☐☐☐ Demonstrate knowledge of scientific concepts and terminology from the different areas of science.

### 1.5 Scientific Issues 科学议题

☐☐☐ Discuss the contribution of scientific advances.

## 2. GAC023 Science III: General Science GAC023 科学 III：综合科学

### 2.1 The History, Nature and Practice of Biology 生物学的历史、本质与实践

☐☐☐ Demonstrate knowledge and understanding of major biological concepts and ideas.

☐☐☐ Collaboratively plan and implement a scientific investigation following scientific and academic conventions.

### 2.2 The Classification of Living Things 生物的分类

☐☐☐ Demonstrate knowledge and understanding of major biological concepts and ideas.

### 2.3 Ecosystems 生态系统

☐☐☐ Describe the main components of an ecosystem and the main processes that take place in it.

### 2.4 Earth Resources 地球资源

☐☐☐ Identify and describe the physical, chemical and biological features of the local environment.

☐☐☐ Create a written report following scientific and academic conventions using Internet research.

### 2.5 Chemistry 化学



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☐☐☐ Demonstrate an understanding of atomic structure, the changes it can undergo and the use of the Periodic Table.

### 2.6 Chemistry and the Environment 化学与环境

☐☐☐ Explain how applications of chemistry affect the environment.

### 2.7 Physics 物理

☐☐☐ Demonstrate an understanding of wave motion.