**STAGE 1 MATHEMATICS**

**PROGRAM 2 OVERVIEW: TWO SEMESTER PRE-SPECIALIST MATHEMATICS**

This program provides the overview of a two semester course for a cohort of students intending to continue to Specialist Mathematics at Stage 2. It is expected that students would also be undertaking a pre-Mathematical Methods program.

**Topics listed in the teaching order outlined in program 2**

**Semester 1**

Topic 7: Arithmetic and Geometric Sequences – subtopics 7.1 and 7.2

Topic 8: Geometry – subtopics 8.1 and 8.2

Topic 9: 1 in the Plane – subtopics 9.1, 9.2, 9.3 and 9.4

**Semester 2**

Topic 10: Further Trigonometry – subtopics 10.1 and 10.2

Topic 11: Matrices – subtopics 11.1 and 11.2

Topic 12: Real and Complex Numbers – subtopics 12.1, 12.2, 12.3, 12.4 and 12.5

**Pre-approved learning and assessment plans**

See Learning and Assessment Plans > Pre-approved LAPs

LAP 3

LAP 4

**Mathematical investigations**

Hills Cipher

Trigonometry/Geometry Investigation (height of a tower)