Mathematics Courses

Specialist (ATAR)

- It is strongly recommended that this course is studied concurrently with Methods.

Methods (ATAR)

- It is recommended that students have covered the appropriate sections of the Year 10A Australian Mathematics Curriculum in order to adequately be prepared for this course of study.

Applications (ATAR)

- An ATAR Mathematics course recommended for students that have met the Year 10 Mathematics Standard.

Essential (General)

- Designed for students who have achieved at least Numeracy Category 2 for OLNA in Year 10.

Foundation (General)

- Designed for students who have been identified at Numeracy Category 1 for OLNA in Year 10.

Mathematics Specialist

- Recommended for excellent mathematics students who want to work beyond Mathematics Methods to develop mathematical arguments and proofs.
- It is desirable that students have completed the appropriate topics from 10A.
- Attracts a 10% bonus on the scaled score used in the ATAR calculation.

Mathematics Methods

- Recommended for strong mathematics students who have excellent algebra skills.
- It is desirable that students have completed the appropriate topics from 10A.
- Includes an introduction to calculus and statistical analysis, including applications to the real world.
- Universities list Methods as a prerequisite for engineering, mathematics and some science courses.
- Attracts a 10% bonus on the scaled score used in the ATAR calculation.

Mathematics Applications

- Recommended for students who have been successful, that is a high C, in Year 10. This course has a different focus than Methods but still requires a strong commitment to demonstrate understanding and study.
- Heavy focus on solving problems in context that include finance, trigonometry, statistics, networks and using sequences for situations of growth and decay.
- Prerequisite for many university courses and desirable by most.
- No calculus so bridging course may be required by universities.
- Recommended for students who are considering TAFE entry for science or computing certificates.

University Bridging Courses – the disadvantages

- Costs money i.e. extra HECS fees.
- Less support and time to do the same content in Methods.
- May not address preliminary knowledge that is obtained in Year 11.
- Can limit options if considering a double major.

Mathematics Essential

- Recommended for students who are not university bound but have achieved at least Numeracy Category 2 for OLNA in Year 10.
- Students need to have been exposed to content such as trigonometry, linear relationships and collecting, displaying, interpreting and analysing data in Year 10.
- Heavy focus on solving problems in real contexts to prepare students for further training or employment.

Mathematics Foundation

- Only students who are Numeracy Category 1 for OLNA are recommended to enrol in this course, however students who are Numeracy Category 2 for OLNA are permitted to enrol in this course.
- Builds student capacity to meet the numeracy standard for WACE that is pass OLNA numeracy.
- Addresses gaps in students' understanding of the building blocks of mathematics. For example addition, subtraction, multiplication, division, place value, etc. Applies this to practical contexts.

MATHEMATICS COURSES

The Mathematical Association of Western Australia Inc.
MAWA