

This handbook contains information on courses and components (majors, minors, streams and units) at Curtin in 2021. Further course information can be found at <https://study.curtin.edu.au/search/>. Information for the previous years curriculum is available at [Courses Handbook 2020](#).

## MATH1013 (v.1) Introductory Mathematics

<b>AREA:</b>	School of Elec Eng, Comp and Math Sci (EECMS)
<b>CREDITS:</b>	25.0
<b>CONTACT HOURS:</b>	3.0
<b>TUITION PATTERNS:</b>	The tuition pattern provides details of the types of classes and their duration. This is to be used as a guide only. Precise information is included in the unit outline.
<b>LECTURE:</b>	1 x 3 Hours Weekly
<b>WORKSHOP:</b>	1 x 1 Hours Weekly
<b>ANTI REQUISITE(S):</b>	MATH1005 (v.1) Pre Calculus or any previous version AND MATH1015 (v.1) <a href="#">Linear Algebra 1</a> or any previous version AND MATH1016 (v.1) <a href="#">Calculus 1</a> or any previous version AND MATH1017 (v.2) <a href="#">Advanced Mathematics 1</a> or any previous version AND MATH1018 (v.2) <a href="#">Advanced Mathematics 2</a> or any previous version AND MATH1019 (v.2) <a href="#">Linear Algebra and Statistics for Engineers</a> or any previous version AND MATH1020 (v.2) <a href="#">Calculus for Engineers</a> or any previous version AND MATH1021 (v.2) <a href="#">Accelerated Mathematics for Engineers</a> or any previous version
<b>UNIT REFERENCES, TEXTS, OUTCOMES AND ASSESSMENT DETAILS:</b>	The most up-to-date information about unit references, texts and outcomes, will be provided in the unit outline.
<b>SYLLABUS:</b>	In this unit students will learn the necessary skills to solve problems arising from science, engineering and business related fields through the application of commonly occurring simple mathematical functions and techniques of linear algebra as well as complex analysis. The unit covers the properties, manipulations and solutions of algebraic expressions as well as polynomial, exponential, and logarithmic functions. Students will learn trigonometry and its use in the solution of right angle and acute triangles. Students will be introduced to idea of a complex number together with their applications and use in solutions to polynomial equations. This unit will cover vectors, lines and planes as well as their applications. This unit also covers matrices and their use for solving systems of linear equations through a study of a number of different types of solution methods. Eigenvalues and eigenvectors will also be considered. This unit is designed for those students who have passed WACE Mathematical Applications or equivalent.
<b>FIELD OF EDUCATION:</b>	010101 Mathematics
<b>RESULT TYPE:</b>	Grade/Mark

### Availability

YEAR	LOCATION	PERIOD	INTERNAL	PARTIALLY ONLINE INTERNAL	FULLY ONLINE
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2021	Bentley Perth Campus	Semester 1	Y
2021	Bentley Perth Campus	Semester 2	Y
2021	Geraldton University Centre	Semester 1	Y
2021	Muresk Institute	Semester 1	Y
2021	Miri Sarawak Campus	Semester 1	Y

**Partially Online Internal** refers to some (a portion of) learning provided by interacting with or downloading pre-packaged material from the Internet but with regular and ongoing participation with a face-to-face component retained. Excludes partially online internal course/units run through the Curtin Bentley-based Distance Education Area which remain Central External

**Fully Online** refers to the main (larger portion of) mode of learning provided via Internet interaction (including the downloading of pre-packaged material on the Internet). Excludes online course/units run through the Curtin Bentley-based Distance Education Area which remain Central External

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## International students

International students studying in Australia on a student visa can only study full-time and there are also specific entry requirements that must be met. As some information contained in this publication may not be applicable to international students, refer to [international.curtin.edu.au](http://international.curtin.edu.au) for further information. Australian citizens, permanent residents and international students studying outside Australia may have the choice of full-time, part-time and external study, depending on course availability and in-country requirements.

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