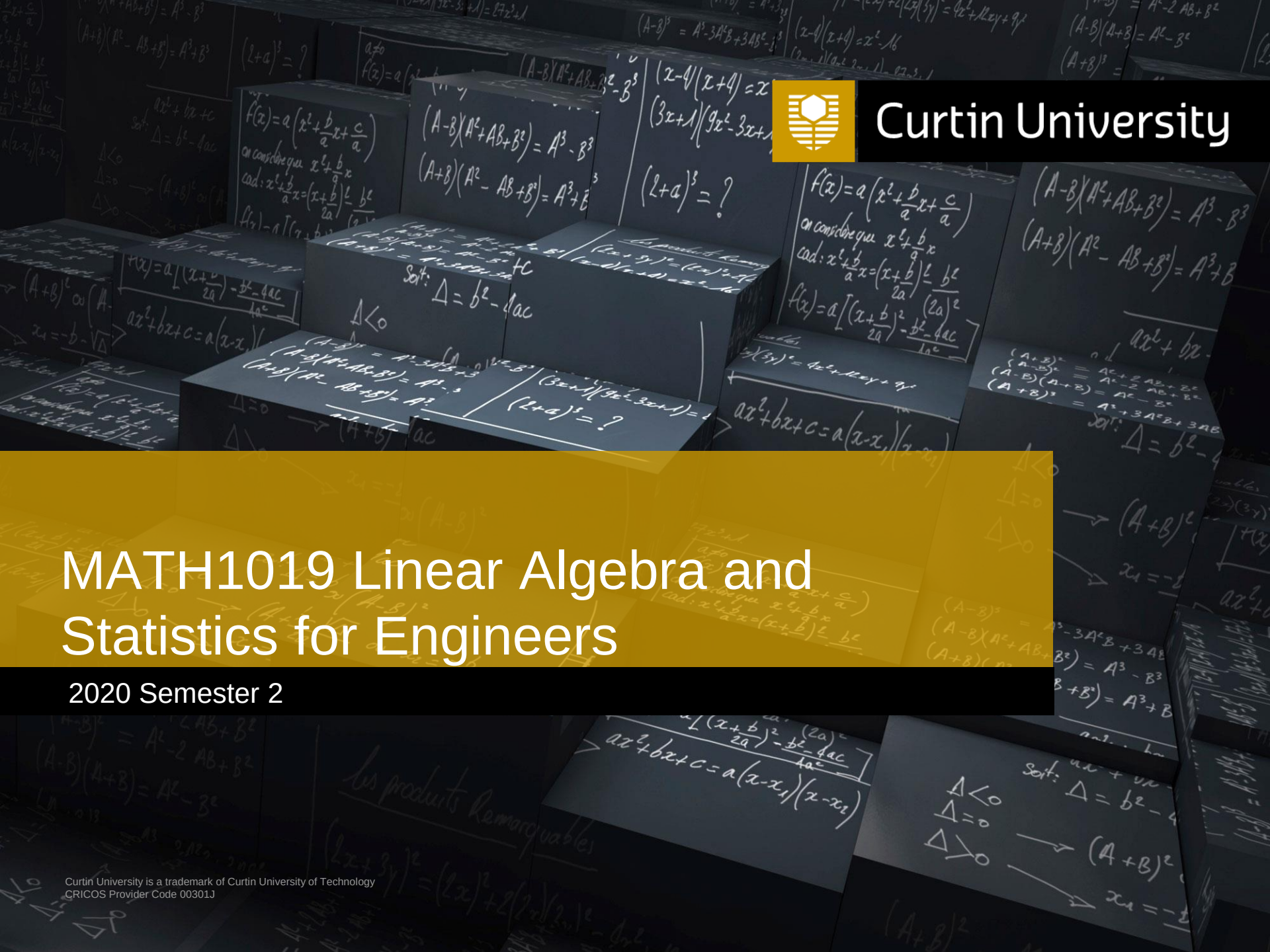

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# MATH1019 Linear Algebra and Statistics for Engineers

2020 Semester 2

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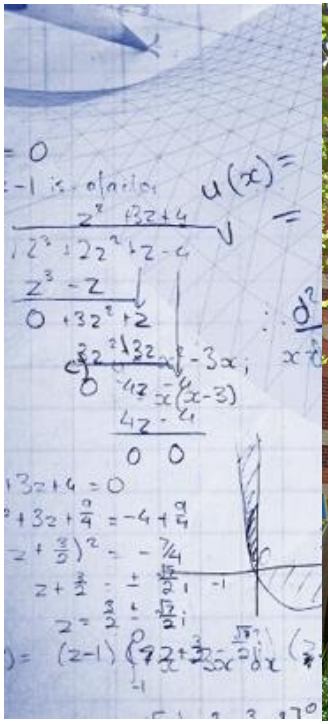
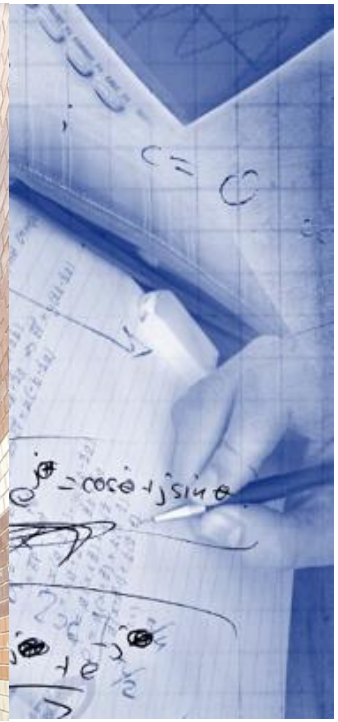
# INTRODUCTION

## Begin by reviewing MATH1019

- Expectations
- How to succeed







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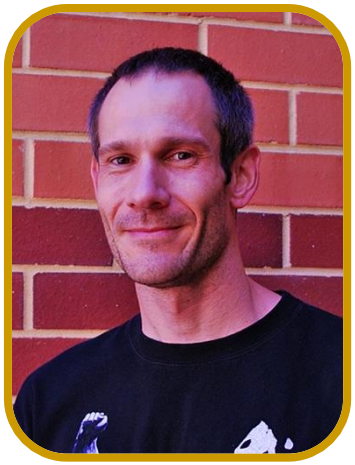
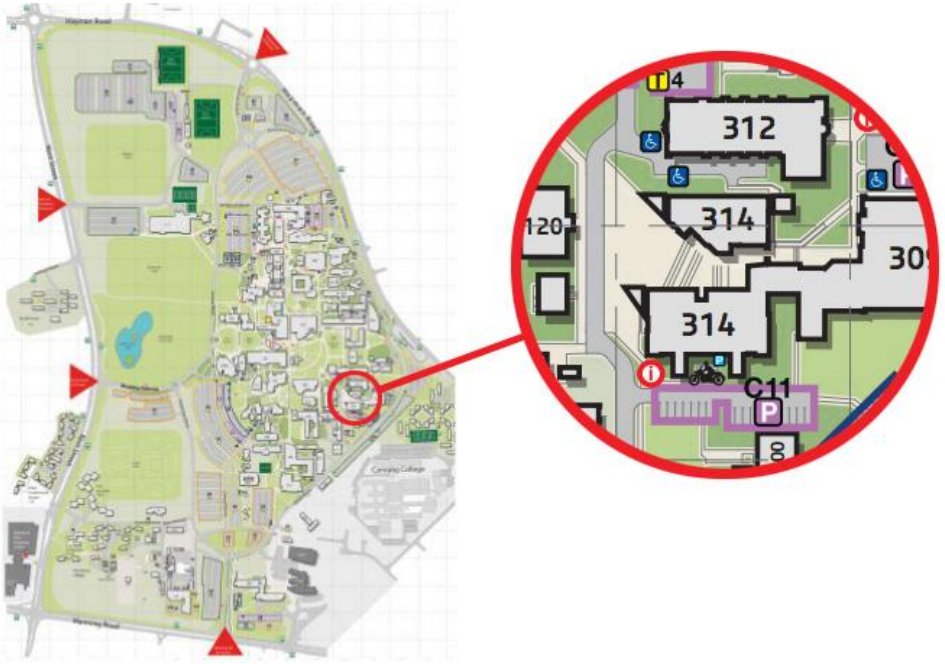
# UNIT COORDINATOR and Lecturer



Dr Ian van Loosen
Linear Algebra
Building 314
Room 358
9266 4959
i.loosen@curtin.edu.au

Ms Cristina Popa
cristina.popa@curtin.edu.au
Building 314
Room 347C
9266 3485

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# PREREQUISITES

| UNIT | REQUIREMENT |
| --- | --- |
| MATH1019 Linear Algebra and Statistics for Engineers | Mathematics Methods<br>or<br>Mathematics Specialist<br>or<br>MATH1008 Calculus and Linear Algebra<br>or<br>MATH1014 Foundations of Calculus<br>or<br>Mathematics 3C/3D<br>or<br>Mathematics Specialist 3C/3D |

# "ANTI-REQUISITES"

MATH1015 Linear Algebra 1 (if you passed MATH1015 you don't need to do MATH1019)


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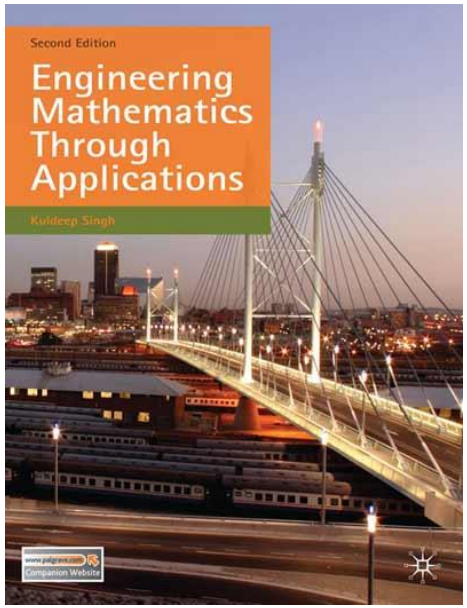
# MATH1019 LASE

- Workshops & Laboratories commence in Week 2, attend registered class (Extra class in Week 6 for Mid-Sem Test)
- Blackboard, prepare for lectures
- Lectures are online and recorded as iLectures
- Consultation times, see Announcements

# TEXTBOOK

- Essential textbook





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# CALCULATORS

- Will only be permitted to use scientific calculators
- Graphical, programmable or Class Pads will not be allowed
- For all assessments during semester
- Contact EFY Office for suitability

# A4 SHEET OF NOTES

- One A4 sheet of notes with handwritten or typed notes permitted


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# ASSESSMENTS

**MID SEMESTER TEST (25%)**

- Held in Week 6
- ≈ 1 hour
- Additional class to be scheduled (details will be posted on Blackboard)

**QUIZZES:**

**LABORATORY QUIZ (10%)**

- Held during laboratory time in Week 6
- ≈ 50 minutes

**WORKSHOP QUIZ (15%)**

- Held during workshop time in Week 12
- ≈ 50 minutes

**FINAL EXAM (50%)**

- 40% mark required
- Further details TBC (will be either online assessment or take-home assessment)


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# UNIT OUTLINE

The Unit Outline contains important information about the unit, please read it thoroughly and carefully.



**Faculty of Science and Engineering**

Curtin University

**Unit Outline**

MATH1019 Linear Algebra and Statistics for Engineers

Semester 2, 2020

| | |
|---|---|
| **Unit study package code:** | MATH1019 |
| **Mode of study:** | Internal |
| **Tuition pattern summary:** | Note: For any specific variations to this tuition pattern and for precise information refer to the Learning Activities section.<br><br>Lecture: 1 x 2 Hours Weekly<br>Computer Laboratory: 1 x 1 Hours Weekly<br>Workshop: 1 x 2 Hours Weekly<br><br>This unit does not have a fieldwork component. |
| **Credit Value:** | 25.0 |
| **Pre-requisite units:** | Nil |
| **Co-requisite units:** | Nil |
| **Anti-requisite units:** | MATH1021 (v.0) Accelerated Mathematics for Engineers or any previous version |
| **Result type:** | Grade/Mark |
| **Approved incidental fees:** | Information about approved incidental fees can be obtained from our website. Visit fees.curtin.edu.au/incidental_fees.cfm for details. |
| **Unit coordinator:** | **Title:** Dr<br>**Name:** Ian van Loosen<br>**Phone:** 08 9266 4959<br>**Email:** I.Loosen@curtin.edu.au<br>**Location:** Building: 314 - Room: 358 |
| **Teaching Staff:** | **Name:** Cristina Popa (Weeks 1 - 4)<br>**Phone:** 08 9266 3485<br>**Email:** cristina.popa@curtin.edu.au<br>**Location:** Building: 314 - Room: 359A |
| **Administrative contact:** | **Name:** FSAE Teaching Support<br>**Phone:** 9266 3735<br>**Email:** FSAETeachingSupport@curtin.edu.au<br>**Location:** Building: 314 - Room: 127 |
| **Learning Management System:** | Blackboard (lms.curtin.edu.au) |

## Acknowledgement of Country

We respectfully acknowledge the Indigenous Elders, custodians, their descendants and kin of this land past and present. The Centre for Aboriginal Studies aspires to contribute to positive social change for Indigenous Australians through higher education and research.

# What is contract cheating?

Contract cheating (also known as assessment outsourcing or ghost writing) can be defined as submitting written or creative work which has been drafted or produced by someone else – including friends, family or a paid contracting service, and claiming authorship for it. This includes:

- Allowing someone or an organisation to draft or complete an assessment task on your behalf
- Contracting another person to do the work for you
- Purchasing work from another source or using a source (Chegg, etc.)
- Allowing or contracting another person to edit and substantially change your work

https://students.curtin.edu.au/essentials/rights/academic-integrity/contract-cheating/#:~:text=Contract%20cheating%20(also%20known%20as,and%20claiming%20authorship%20for%20it.

# How will I know if I am at risk of contract cheating?

**You are at risk of contract cheating if you ask someone to:**

- Complete an assignment for you
- Substantially edit your assignment
- Do your university work, with our without compensation
- Check your work through Turnitiin
- Check test or quiz answers
- Sit a test or quiz for you
- Provide someone with your login details

**You may also be at risk of contact cheating if you provide information to people or organisations outside of Curtin, such as:**

- Your student number and student card details
- Assignment questions or briefs
- Lecture notes
- Marking rubrics or marking guides

https://students.curtin.edu.au/essentials/rights/academic-integrity/contract-cheating/#:~:text=Contract%20cheating%20(also%20known%20as,and%20claiming%20authorship%20for%20it.

# Is it contract cheating to work with a tutor or editor?

**The elements of a document that an editor or Studiosity may be able to check for you are:**

- Typographical and spelling errors
- Errors in word usage
- Errors in grammar and syntax
- Errors and inconsistencies in punctuation
- Consistent use of formatting, capitalisation, abbreviations, or systems of measurement
  (metric versus imperial)
- Consistent and accurate application of academic writing conventions such as captions for tables/figures, formatting of in-text citations and referencing
- Connections and transitions between paragraphs and sections.

https://students.curtin.edu.au/essentials/rights/academic-integrity/contract-cheating/#:~:text=Contract%20cheating%20(also%20known%20as,and%20claiming%20authorship%20for%20it.

# What are the penalties at Curtin for contact cheating?

Contract cheating is considered academic misconduct and the penalty is an annul (ANN) for the unit in which the cheating occurred. This means that you will not receive credit for the unit.

For a second finding of misconduct related to contract cheating the result is an annul (ANN) for all units that the student is enrolled in for that academic period

https://students.curtin.edu.au/essentials/rights/academic-integrity/contract-cheating/#:~:text=Contract%20cheating%20(also%20known%20as,and%20claiming%20authorship%20for%20it.

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# STUDY SKILLS WORKSHOPS

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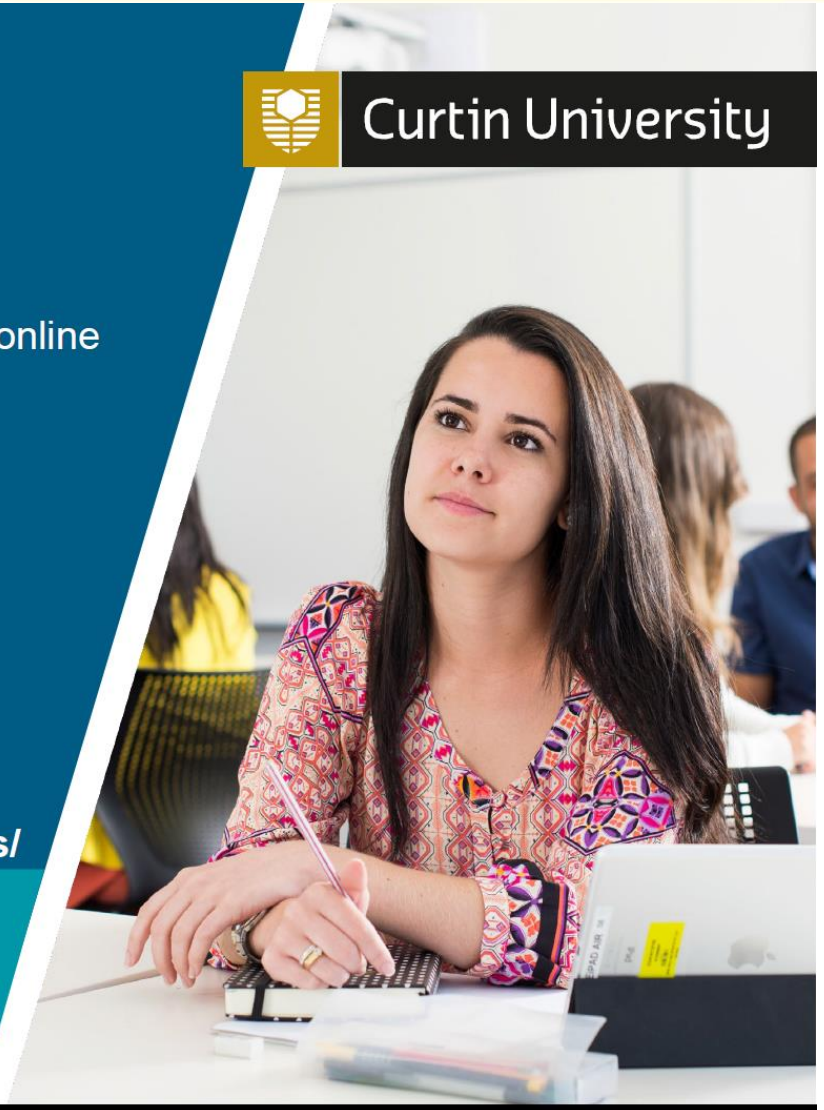
The Library offers a range of workshops and online programs to help with:

- Writing
- Software
- Searching
- Referencing
- Reading
- Maths and Statistics
- General Study Skills

**For more information see:**
**students.curtin.edu.au/study-support/skills/**



**REGISTER on UniHub**
**https://unihub.curtin.edu.au**

Make tomorrow better.

library.curtin.edu.au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# Maths and statistics workshops by Curtin Library

**Improve your Numeracy Skills**

Refresh your knowledge of basic numerical skills, like BIMDAS, rounding decimal numbers and percentages and fractions.

**Introduction to Statistics series**

Need to use statistics for your course? This three part series will give you a great foundation for your studies.

**Understanding Algebra**

Go through algebra basics, from how to simplify algebraic expressions, expand brackets and factorise, to how to solve equations.

**Exponents and Logarithms Explained**

Learn about exponent and logarithm definitions, rules for manipulating them and e and natural logarithms.

Free workshops available to all students.

**Visit bit.ly/curlibmaths to view the schedule.**

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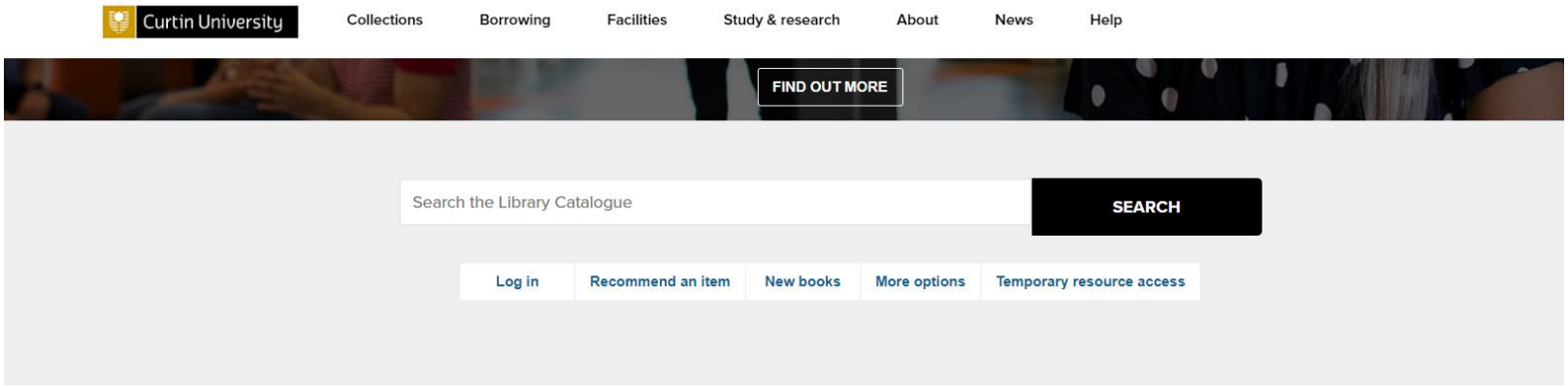
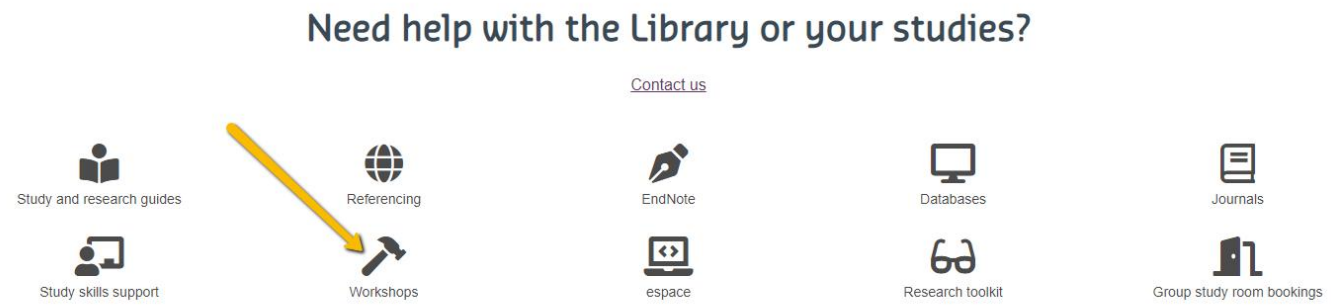
# Workshops by Curtin Library and Learning




**Visit https://bit.ly/39AiPmV to view the schedule**

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Studying a first year, second year or postgraduate unit?
Need assignment help?

## Studiosity

Connect live with a subject specialist or receive feedback on short pieces of writing.

24/7 access is FREE through your Blackboard unit.

Studiosity | Curtin University


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# ETAP

## ETAP Invitation

**What is ETAP?**

ETAP is **FREE** for all Engineering Foundation Year students
ETAP is **access** to skilled and trained engineering specialist tutors

ETAP helps you reach your full potential by:

- Providing additional support in a small group
- Developing your problem solving skills
- Clarifying key concepts or applications
- Extending your feedback on problems or questions
- Establishing good study habits and support networks

**Who needs ETAP?**

EFY students who want to:

- Establish good study habits
- Gain confidence and skill in problem solving
- Extend or consolidate understanding

**What ETAP is not:**

ETAP is not a replacement for your lectures, workshops or tutorials. Come prepared with questions and/or attempted problems for help in an open, accessible environment.

### CONTACT:

**Engineering Foundation Year**
SAE.EFY.students@curtin.edu.au

**ETAP Location**: Engineering Foundation Year Studio

**ETAP Times and Units**: see Engineering Foundation Year Blackboard or Facebook, and Engineering Foundation Year notice board (located outside 204:315,316)

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