Why is a Mathematics Bridging Program required?
The Advanced Diploma of Engineering Practice ("DEN") is designed to articulate into years 3 and 4 of Engineering studies at University. It therefore follows that the level of Maths incorporated into the DEN is of the same standard as the Maths you would encounter in your first two years at University. Without very strong Maths students would be likely to struggle and possibly fail the Maths units in the program.

For upcoming start dates, please view our program schedule at:
http://www.eit.edu.au/schedule

Mathematics Bridging for Advanced Engineering Studies

20 Modules over 24 Weeks
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Who needs to do the Mathematics Bridging Program?
The purpose of this 6 month non-award program is to bring students up to the standard that is required to be able to tackle the maths units in the advanced diploma program. As most students know, including those who may have studied maths at an advanced level in the past, it is not unusual to find this level of maths challenging unless your studies are relatively recent. If you studied (and passed) Maths within the last 5 years at a level that would have prepared you for subsequent Engineering studies at University (generally the highest level of maths you could study in your final year of secondary school or college) you would be prepared for the DEN Maths units. If you completed a Bachelor's degree in a 'science' subject, your Maths knowledge would also be deemed sufficient. All other applicants would be required to do the Maths Bridging Program.

Secure your place now!
Contact enquiries@eit.edu.au for an enrolment form or more information.
**Program Outline**

- Systems of Linear Equations
- Inequalities and Absolute Values
- Quadratic Equations
- Logarithms
- Introduction to Functions
- Introductory Geometry
- Introductory Trigonometry
- Sequences and Series
- Variation, Ratio and Proportion
- Introduction to Probability
- Statistics and Standard Deviation
- Additional Topics in Algebra
- Trigonometric Functions and Ratios
- Graphs of trigonometric Functions
- Analytical Geometry
- Vectors
- Introductory Differentiation
- Introductory Integration
- Applications of the Derivative
- Applications of Integration

*Full details on next page*

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**Benefits of Live E-Learning**

- Attend lessons in an online classroom with your lecturer and fellow students
- Upgrade your skills and refresh your knowledge without having to take valuable time away from work
- Receive information and materials in small, easy to digest sections
- Learn while you travel - all you need is an Internet connection
- Have constant support from your program lecturer and coordinator for the duration of the program
- Live interactive webinars, not just a ‘book on the web’

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**Frequently Asked Questions**

**Q:** When does the next Bridging Program start?

**A:** For details of program start dates, please see our program schedule at: [http://www.eit.edu.au/schedule](http://www.eit.edu.au/schedule)

**Q:** How much does it cost?

**A:** The cost is $1190. This includes 12 months access to MyMathLab ([http://www.mymathlab.com/learn-about](http://www.mymathlab.com/learn-about))

**Q:** If I complete this bridging program successfully will I be eligible to apply for entry into an engineering degree program at any university?

**A:** No, this program is specifically designed as a maths bridging program into the Advanced Diploma of Engineering Practice, which then leads into the university programs outlined in the program brochure for that qualification.

**Q:** If I complete this bridging program successfully will I be eligible to enter the Advanced Diploma of Engineering Practice?

**A:** No. This is not automatic. Students who wish to enter the Advanced Diploma of Engineering Practice should submit an application for that program before registering for this bridging program. If the Academic Panel accepts enrolment for the Advanced Diploma it may be provisional (that is, subject to successful completion of “Mathematics Bridging for Advanced Engineering Studies”). Students may then register for this program. Please also see next question.

**Q:** What are the entrance requirements?

**A:** Students will need to have received provisional acceptance into the Advanced Diploma of Engineering Practice [see previous question]. In order to be successful in this program students will need to have a reasonable level of maths. The definition of “reasonable” vary. Some students may be able to demonstrate past success at junior high school maths, others may have completed maths a senior high school or college but not at the required level, others may have completed advanced maths but some time ago. Your registration form will provide the EIT with some indication of your maths background, and ultimately your determination to be successful is a prime determinant of your chances of success.

**Q:** Are there any textbooks involved?

**A:** No

**Q:** How long is the program?

**A:** 24 weeks

**Q:** What does the program cover?

**A:** Details of the program contents are covered in the next section of this brochure.

**Q:** How much of my time will it take up?

**A:** You will be required to invest approximately 12 hours per week

**Q:** How will I know what is being covered and when?

**A:** You will receive a detailed study guide at the start of the program

**Q:** What is the structure of the program presentation?

**A:** There will be one lecture/tutorial session per week.

- Classes will be conducted online via “Blackboard Collaborate” web conferencing software ([https://www.blackboard.com/platforms/collaborate/overview.aspx](https://www.blackboard.com/platforms/collaborate/overview.aspx))
- You will use MyMathLab for study purposes, and to do your weekly assessments
- Feedback/communication with your lecturer will be via email, Skype and the “Moodle” Learning Management System (which is like a Program Website)
- There will be 4 mandatory assignments throughout the program

**Q:** Do I have to attend all webinars?

**A:** Students are required to attend a minimum of 70% of all live webinars

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**20 Modules Over 24 Weeks**

**Live Webinars**

During the program you will participate in live interactive sessions with the lecturer and other participants from around the world. Each webinar will last approximately 60 to 90 minutes, and we take student availability into consideration wherever possible before scheduling webinar times. Contact us for details of webinar session scheduling. All you need to participate is an adequate Internet connection, speakers and a microphone. The software package and setup details will be sent to you prior to the program.
ABOUT THE EIT

The Engineering Institute of Technology is a private registered training organization. EIT is a sister company of the well-known and reputable engineering training organization, IDC Technologies. IDC has been operating for over 20 years, from offices throughout the world, delivering practical short programs to well over 500,000 engineers and technicians. The finest engineering lecturers, with extensive real engineering experience in industry, are drawn from around the world. The learning is delivered to students through a blend of synchronous and asynchronous, online [e-learning] technologies, which includes live lectures and remote laboratories. The EIT offers education awards in a growing array of engineering fields.

Many [perhaps, most] engineering faculties at universities and colleges experience a significant challenge delivering the program-work affordably and with excellence. The EIT achieves this using online-based education - economical class sizes are attainable, international experts are engaged to instruct and remote laboratories and simulation software are employed. Many institutions offer online training, with no interaction or practical components and composed mainly of self study and perhaps supplied recordings. This format offers very little in the way of motivation or practical skills and can leave students feeling isolated. The live, interactive format of the EIT’s online programs allow expert lecturers to present from anywhere in the world, to anyone in the world, and students can interact and socialise with lecturers and fellow students. Students not only have access to international expert lecturers, but are provided with a worldwide network of peers. The EIT’s online learning provides cost-effective, flexible training with no compromise on quality.

ADVANCED DIPLOMA OF ENGINEERING PRACTICE

EIT developed an intensive two-year program that can be attended from home. It is in all respects a fully-fledged Engineering program, covering the first two years of Engineering studies at University, and has been developed in collaboration with the Engineering Faculty at Murdoch University in Australia. The Advanced Diploma in Engineering Practice allows participants to articulate seamlessly into the Year 3 full-time on-campus studies at Murdoch. It will allow them to specialize in Electrical Power Engineering, Instrumentation and Control Engineering, Industrial Computer Systems Engineering, or Renewable Energy Engineering.

The EIT has additionally partnered with the University of Hull in the UK, and Stony Brook University in the US, giving students the choice of Murdoch, plus the full-time engineering programs of these two world-class institutions, to articulate into.

- Two year credit towards an engineering university degree at the named universities
- Online flexible learning
- Personalised tuition
- Highly interactive video and web conferencing
- Industry experienced instructors
- Practical labs at your desk
- High quality, research intensive qualification
- Overseas students could apply for a visa for years 3 and 4
- Practical underpinning to theory in course

Contact enquiries@eit.edu.au for more information

SECURE YOUR PLACE NOW!

Contact enquiries@eit.edu.au for an enrolment form or more information.

HARDWARE AND SOFTWARE REQUIREMENTS

All you need in order to join the webinars once registered for the program is an adequate internet connection, PC, speakers and a microphone. The software package and setup details will be sent to you prior to the program.

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GRADE

Rise

Run

% Grade = \frac{\text{Rise}}{\text{Run}} \times 100

500 feet

25 feet

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