

Welcome to CDU Engineering








Undergraduate and Postgraduate

Faculty of Science and Technology - Engineering Discipline

Charles Darwin University acknowledges all First Nations people across the lands on which we live and work, and we pay our respects to Elders both past and present.

Faculty of Science and Technology

Support Staff

<p>FST Pro Vice-Chancellor:</p>  <p>Prof. Suresh Thennadil PVC FST, Director – Energy & Resources Institute suresh.thennadil@cdu.edu.au</p>	<p>Teaching & Learning Support:</p>  <p>Dr. Bharanidharan Shanmugam Associate Dean of Learning & Teaching bharanidharan.shanmugam@cdu.edu.au</p>	<p>Work Integrated Learning:</p>  <p>Dr. Hooman Mehdizadeh Rad Associate Dean of WIL hooman.mehdizadehrad@cdu.edu.au</p>	<p>Innovation & STEM Pathways Support:</p>  <p>Dr. Carla Eisemberg Associate Dean Innovation & Lecturer in STEM Pathways carla.eisemberg@cdu.edu.au</p>
<p>Associate Dean Research</p>  <p>Dr Vinuthaa Murthy Senior Lecturer - Chemistry Vinuthaa.murthy@cdu.edu.au</p>	<p>First Nations Student Support & Student Mentoring:</p>  <p>Dr. Cat Kutay Lecturer and Chair Network of Indigenous Partners cat.kutay@cdu.edu.au</p>	<p>FST Technical Services Support: Techservices-FST@cdu.edu.au</p> <p>FST Admin support / General enquiries: Admin-FST@cdu.edu.au</p>	<p>Student Academic Support Officer:</p>  <p>Dionisia (Dion) Lambrinidis fst-placements@cdu.edu.au dionisia.lambrinidis@cdu.edu.au</p>

For further student support visit, [You Make CDU](#): current student info page

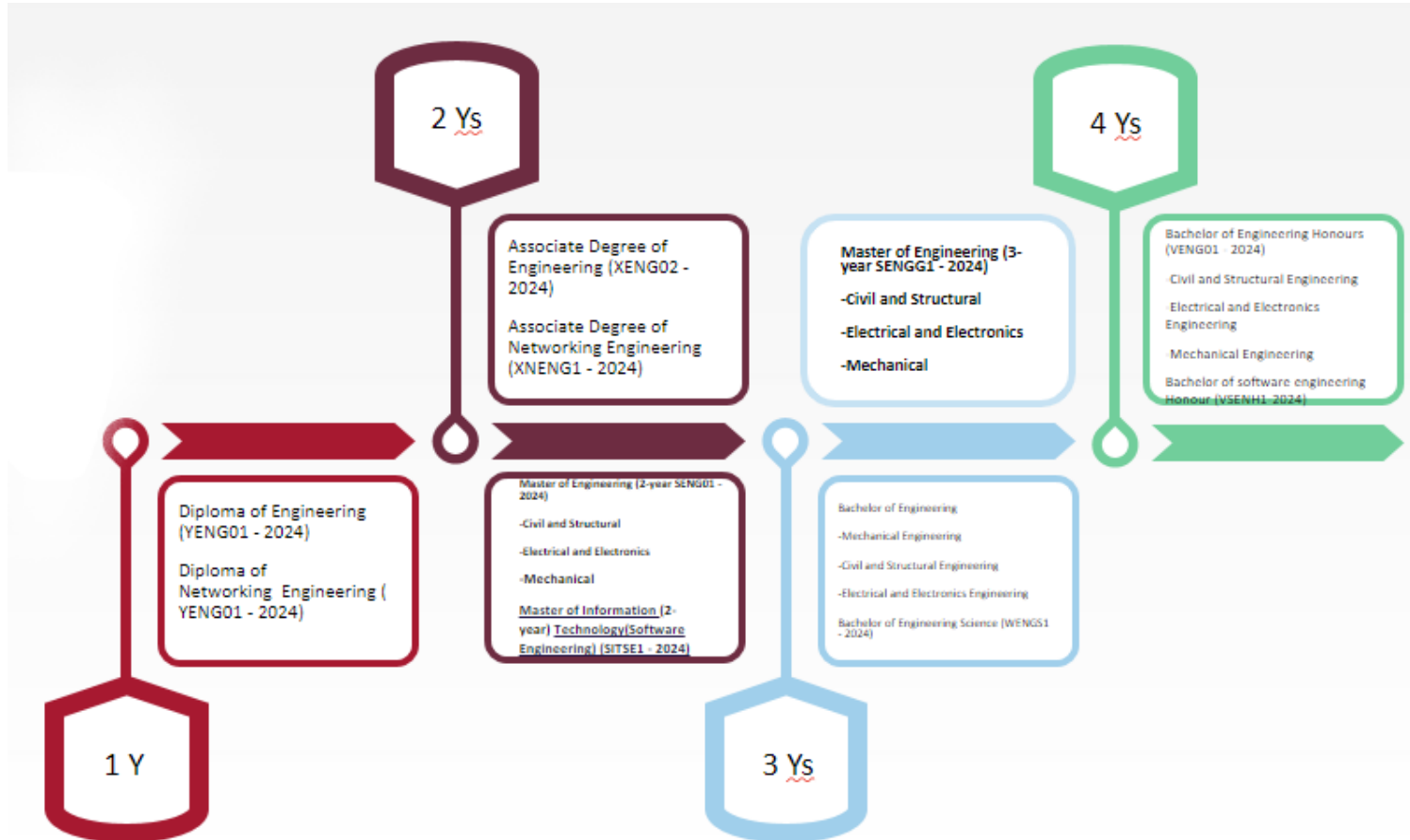
Engineering Discipline

Course Coordinators

Discipline Contacts – ENGINEERING				
 <p>Associate Prof. Stefanija Klaric Discipline Chair – Engineering Associate Prof. Engineering, stefanija.klaric@cdu.edu.au</p>	 <p>Dr. Luis Herrera Diaz Bachelor of Engineering Honours & Bachelor of Science/Master of Engineering Course Coordinator – Engineering luis.herreradiaz@cdu.edu.au</p>	 <p>Dr Taslima Khanam Bachelor of Engineering Science, Associate Degree, Diploma & Undergraduate Certificate Course Coordinator – Engineering taslima.khanam@cdu.edu.au</p>	 <p>Dr. Hooman Mehdizadeh Rad Master of Project Management Course Coordinator – Engineering hooman.mehdizadehrad@cdu.edu.au</p>	 <p>Dr Milad Bazli Master of Engineering & Master of Engineering Extended Course Coordinator - Engineering milad.bazli@cdu.edu.au</p>

Engineering staff contacts can also be found via Learnline: see Unit info and Engineering Central.

Engineering Course Pathways



Course Information

You can search and find detailed and current course and unit information via the [CDU Course Catalogue](#)



Course Catalogue

Year Sector Higher Ed VET Short Course All

Available to Domestic International International Offshore












Location

Course Title Keyword

OR Course Code

Sort Results by Code Title Hide *Re-enrol only* courses Show *MyNextCourse* courses only

Undergraduate Engineering Courses

Associate Degree of Engineering (XENG02 - 2024)	Duration 2 year/s full-time, 4 year/s part-time	Location Casuarina campus, Online	
Associate Degree of Network Engineering (XNENG1 - 2024)	Duration 2 year/s full-time, 4 year/s part-time	Location Casuarina campus, Online	
Bachelor of Engineering Honours (VENG01 - 2024)	Duration 4 year/s full-time, 8 year/s part-time	Location Casuarina campus, Online	
Bachelor of Engineering Science (WENG51 - 2024)	Duration 3 year/s full-time, 6 year/s part-time	Location Casuarina campus, Online	
Bachelor of Engineering Science/Master of Engineering (HENG01 - 2024)	Duration 5 year/s full-time, 10 year/s part-time	Location Casuarina campus, Online	
Bachelor of Software Engineering Honours (VSENH1 - 2024)	Duration 4 year/s full-time, 8 year/s part-time	Location Casuarina campus, Online	
Diploma of Advanced Manufacturing (YAMAN1 - 2024)	Duration 1 year/s full-time, 2 year/s part-time	Location Casuarina campus, Online	
Diploma of Engineering (YENG01 - 2024)	Duration 1 year/s full-time, 2 year/s part-time	Location Casuarina campus, Online	
Diploma of Network Engineering (YNENG1 - 2024)	Duration 1 year/s full-time, 2 year/s part-time	Location Casuarina campus, Online	
Undergraduate Certificate Introduction to Construction Management (NCONM1 - 2024)	Duration Not available full-time, 1 year/s part-time	Location Casuarina campus, Online	
Undergraduate Certificate Introduction to Mathematics and Physics (NMPHY1 - 2024)	Duration Not available full-time, 1 year/s part-time	Location Casuarina campus, Online	

Example

Master of Engineering Courses

[Master of Engineering \(SENG01 - 2024\)](#)



Duration 2 year/s full-time, 4 year/s part-time

Location Casuarina campus, Online

[Master of Engineering \(SENGG1 - 2024\)](#)



Duration 3 year/s full-time, 6 year/s part-time

Location Casuarina campus, Online

[Master of Information Technology \(Software Engineering\) \(SITSE1 - 2024\)](#)



Duration 2 year/s full-time, 4 year/s part-time

Location Casuarina campus, Online

Example

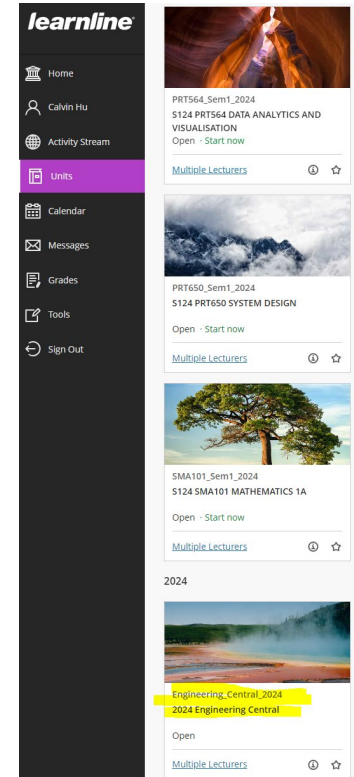
CDU Engineering courses

Bachelor and Master of Engineering courses (excluding software & network engineering) may be streamed by specialty:

- **Civil and structural:** Key areas include water resources, roads and traffic, bridges and marine structures. Your studies will focus on developing sustainable and ethical civil and structural solutions in areas such as structural engineering, water and its uses and the principles of sustainability.
- **Electrical and electronics:** You are involved in electronics, telecommunications, biomedical applications and power generation and distribution, including renewable energy.
- **Mechanical:** Key areas include mechatronics, robotics, biomechanical applications, aeroplanes, cars, pumps and pipelines.

Depending on which course or stream you choose, your unit study plan will change.

All engineering students can access Engineering Central via Units in Learnline – announcements and updates from the faculty will be posted here, along with key staff and course information.



Understanding study plans

Bachelor Degree course study plans may include the following unit types:

- Common (CU)
- Core (CO)
- Elective (E)
- Specialist Elective (SE)
- Intensive
- Professional practice
- Research (Honours)
- Thesis (Honours)

Study plans can be found via [Course and Unit Catalogues](#)

Example

Bachelor of Engineering (BENG)		2024	
Recommended Study Plan			
Students Commencing in Semester 1			
The Recommended Study Plans provided below are suitable for students commencing in semester 1, enrolling in a standard full time load and meet the assumed knowledge - Stage 2 Mathematical Studies. Students who do not meet or are uncertain whether they meet the assumed knowledge should contact the course coordinator at engineering@cdu.edu.au or 08 8946 6457 to discuss their study plan.			
Students entering this course with advanced standing, wanting to study part time or vary their study plan due to work, personal, financial or other reasons should use the table as a guide to create an individual study plan.			
When designing an individual study plan:			
- ensure Common Units are completed in the first year of study;			
- maintain the basic order in which units are to be attempted; and			
- check the assumed knowledge for each unit as some 200, 300 and 400 level units assume you have completed foundation unit/s in the subject area at a lower level. 200 level units have the unit code which includes a number starting with 200 i.e. PMO201.			
The first year of study in Engineering is common to all specialisations with students selecting a specialisation in the second year of study (Year 2).			
Legend:	CU = Common Unit	CO = Core Unit	E = Elective
COMMON FIRST YEAR for all engineering streams - Full time study			
Semester 1		Semester 2	
Year 1			
CUC106 Design and Innovation: Communicating Technology	CU	ENG142 Concepts of Chemical Engineering (<i>final offering 2019</i>)	CO
ENG151 Statics	CO	ENG252 Dynamics (<i>replaces ENG152</i>)	CO
ENG154 Engineering Foundations (<i>last offered 2015</i>)	CO	ENG174 Electrical Engineering	CO
SMA101 Mathematics 1A	CO	SMA102 Mathematics 1B	CO

Understanding study plans

Master of Engineering course study plans may include the following unit types:

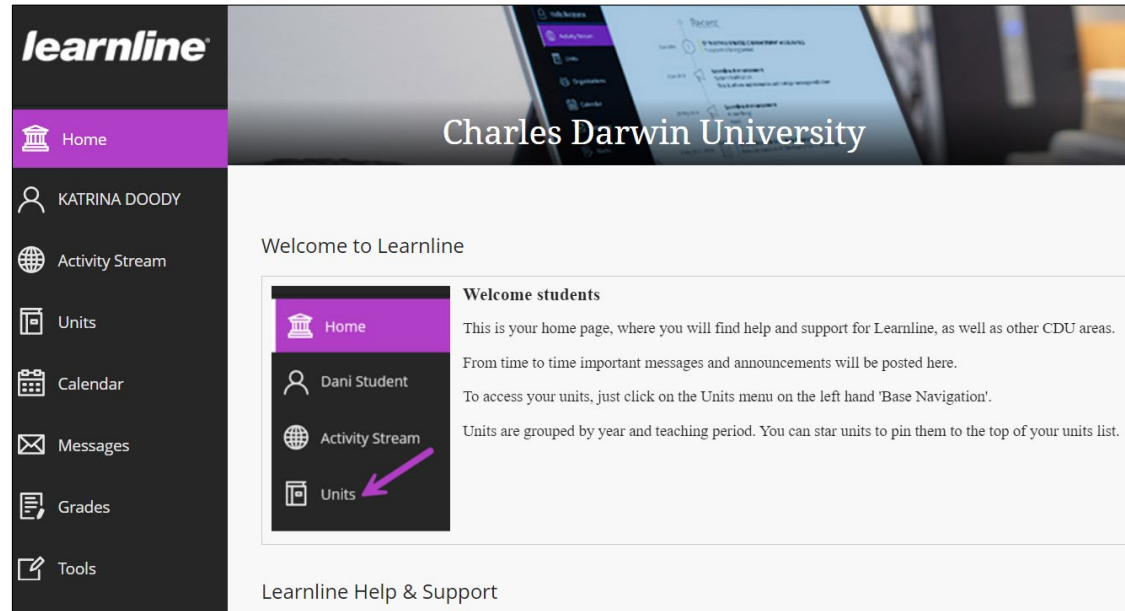
- Core (CO)
- Specialist Elective (SE)
- Professional practice
- Research (R)
- Thesis

Study plans can be found via Course and Unit Catalogues

Semester 1		Semester 2	
Year 1			
ENG151 Statics	CO	ENG212 Mechanics of Solids	SE
ENG215 Surveying and Construction	SE	ENG267 Hydraulics and Soil Mechanics	SE
ENG311 Geomechanics	SE	ENG368 Steel and Concrete Structures	SE
ENG247 Fluid and Thermodynamics	SE	SMA209 Mathematics 2A	CO
Year 2			
ENG515 Water Resources Engineering	SE	ENG563 Advanced Structural Analysis	SE
ENG567 Design of Steel Structures	SE	ENG564 Geotechnical Engineering	SE
ENG569 Structural Analysis	SE	ENG566 Design of Concrete Structures	SE
PRT551 Project Management, Risk and Reliability	CO	ENG519 Sustainability	CO
		PRT501 Professional Practice (0cp)	CO
Year 3			
PRT650 System Design (20cp)	CO	ENG516 Road and Traffic Engineering	SE
PRT820 Master Thesis (20cp)	R	PRT565 Machine Learning, Artificial Intelligence and Algorithms	CO
		PRT820 Master Thesis (20cp)	R

How will I access learning materials?

Learnline is the online learning platform used to access all unit content; including lectures, readings and assessments.



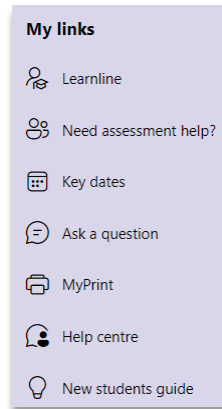
The screenshot displays the Learnline user interface. On the left is a dark navigation sidebar with the 'learnline' logo at the top. Below the logo are icons and labels for: Home (highlighted in purple), KATRINA DOODY (user profile), Activity Stream, Units, Calendar, Messages, Grades, and Tools. The main content area features a header with the 'learnline' logo and 'Charles Darwin University' text. Below the header is a 'Welcome to Learnline' section. This section contains a smaller version of the navigation sidebar, where the 'Units' option is highlighted with a purple arrow. To the right of this sidebar is a 'Welcome students' message: 'This is your home page, where you will find help and support for Learnline, as well as other CDU areas. From time to time important messages and announcements will be posted here. To access your units, just click on the Units menu on the left hand 'Base Navigation'. Units are grouped by year and teaching period. You can star units to pin them to the top of your units list.' At the bottom of the main content area is a 'Learnline Help & Support' link.

Learnline – Online Learning Platform

Learnline is essential for your study at CDU. It provides access to learning materials, live classes, recordings, assignments, and tools to engage with lecturers and other students.

Where can I find Learnline?

- Via the CDU [student portal](#) dashboard page
 - *My Apps – Learnline icon*
 - *My links – Learnline*
- On the go [Blackboard App](#)
 - *Download via the App Store or Google play*



Getting started ...

- ✓ CDU's [Learnline](#) webpage
- ✓ Watch our video: [Learnline – How to](#)
- ✓ 24/7 Learnline Support
1800 984 057
[Online Support Portal](#)

Coursework & Support

CDU has guideline documents that govern academic activities

Students should;

- Review the [governance library](#), importantly the Higher Education; [Assessment Policy & Procedure](#), [Grading](#) and [Examination Policy](#).
- Undertake the Mandatory Academic Integrity unit via Learnline.
- Review your unit overview and information documents via Learnline – see “About This Unit”
- Review unit assessment and submission information via Learnline – see “Unit Assessment”

Need study and assessment help?

- ✓ [Study Skills](#)
- ✓ [Language and Learning Support](#)
- ✓ Online Tutoring via Learnline (see “unit tools”)

Class Timetables

Unless otherwise advised, scheduled classes are provided for all unit teaching purposes and for both external (online) and internal (on-campus) students, as appropriate.



[Unit catalogue](#) - search for a unit and navigate to “Unit Availability” section, units with **current class timetables** will be available to [view](#) here.

Unit Availability					
Year	Semester	Att Mode	Location	Learning Method	Timetable*
2024	Semester 1	Internal	Casuarina Campus	OLR	View
2024	Semester 1	External	External Studies	OLR	View
2024	Semester 2	External	External Studies	OLR	
2024	Semester S	Internal	Casuarina Campus	OLR	
2024	Semester S	External	External Studies	OLR	



Timetables icon in the **student portal** – opens Timetable viewer; follow the user guide [Timetable Viewer: User Guide](#) to find your timetable.



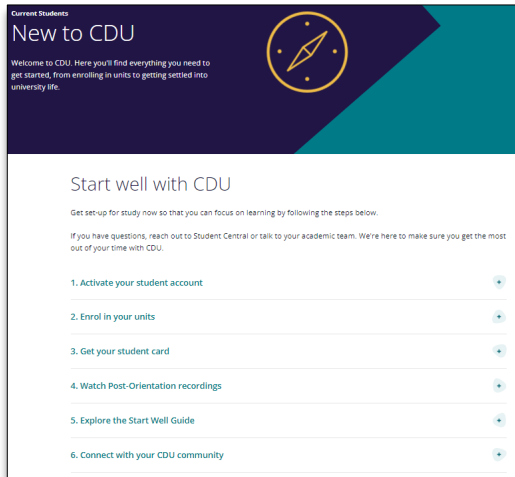
From Semester 2, 2024 timetables can be found via your **student Outlook email and calendar**.



Timetables

Important Dates & Key Information

- Important dates for each semester can be found via [Important dates](#)
- A downloadable Year Planner with key study dates, including enrolment deadlines, census dates, semester teaching dates, and breaks, exams and public holidays.



CDU Orientation and [New to CDU](#) webpages provide key information for new students including;

- Activating your student account & getting a student card
- Enrolling & accessing Learnline
- Connecting with your CDU community

More tips while studying

You can find many key student resources via the student portal and CDU website.

- ✓ Use your **CDU student Outlook email** for all course related communication.
- ✓ **Include your full name, student number, course, specialisation or unit code** (if applicable) in all student related communications.
- ✓ Ensure you **follow outlined procedures**, provide requested information and supporting documentation, where required (e.g. assessment extensions).
- ✓ **Communicate** with teaching staff at the earliest possible opportunity if you have **questions or concerns**.
- ✓ All students should regularly **access Learnline** to engage with course content, teaching, lecturers and other students.
- ✓ Be sure to **update your personal information** via MyStudentInfo in the student portal.
- ✓ **We are here to help**, when in doubt, please reach out.

Student Services

The CDU Student Central team are available for all general student enquiries.



student.central@cdu.edu.au



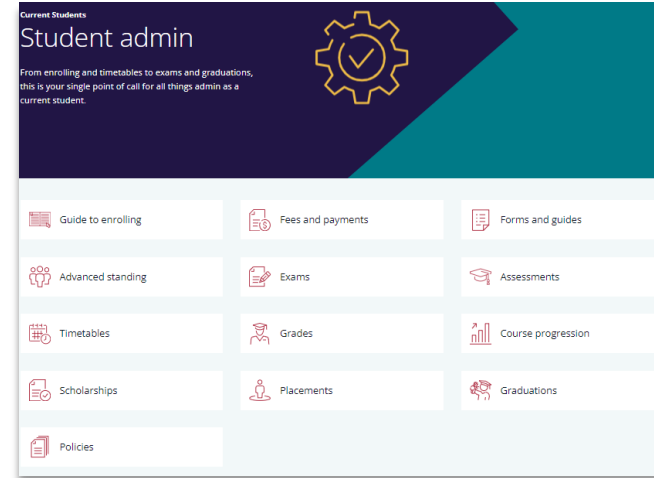
Free call [1800 061 963](tel:1800061963)



Mon–Thurs: 8:00 am – 4 pm Fri: 8:00 am – 3 pm



FAQs: [Ask CDU](#)



CDU offers many services to support student life, health and wellbeing.

If you need support, the **CDU Wellbeing Support Line** is available 24/7, providing immediate assistance for emotional and mental distress.



[1300 933 393](tel:1300933393) or SMS [0488 884 144](tel:0488884144)