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At the ANU College of Engineering and Computer Science, you will study at a leading centre for research and education in Australia. The College is at the cutting edge of numerous fields including:

- logic
- algorithms and data
- signal processing
- artificial intelligence
- computer vision and robotics
- computational mechanics
- materials fabrication
- big software systems
- energy
- networked systems
- quantum cybernetics.

Join our community of students, teachers and researchers committed to finding sustainable solutions to the world’s greatest challenges. In return, receive education, research training and real-world experience that ensures you have a comprehensive understanding of a range of interconnected disciplines when you graduate.

You will benefit from a dynamic and pioneering research environment where you will learn in small classes, working alongside teachers who are some of the world’s brightest researchers.

Our researchers collaborate with an extensive network of academic, government and industry partners around Australia, in Europe, across the Asia-Pacific and the United States.

We’re currently working with Ford Motor Company and The Boeing Company to lighten, strengthen, and improve the sustainability of their vehicles and planes.

Our large-scale computational research is supporting product development at some of the largest global tech companies, including Microsoft Research, Facebook, Google, Intel, IBM and Oracle.

You will have opportunities to connect with these partners through a range of hands-on learning and training activities.

See for yourself how an engineering or computer science degree can provide you with the tools to enable change in your world.

Be recognised with an in-demand qualification from Australia’s top university.
Undergraduate Programs 2018

#1 in Australia
ANU is ranked #1 in Australia and #22 in the world.¹

Accommodation
Guaranteed accommodation on campus. See page 34 for details.

World’s best city
Canberra ranked the world’s most livable city two years in a row.²

‘Well above’ world standard
95 per cent of ANU research is rated ‘above’ or ‘well above’ world standard.

1:10 staff/student ratio
Best staff to student ratio of all Australian universities.

Six Nobel Laureates
The highest number of all Australian universities.

1 QS World University Rankings 2016/17.  2 OECD Better Life Index 2014.
Across the world, demand for engineering and computer science graduates is escalating in industry, business and government.

The impact of technology has been powerful and far-reaching and its practitioners have changed our world.

Modern engineers and computer scientists play an integral role in meeting the greatest challenges of our time, including climate change, humanitarian crisis and protecting our natural resources.

Thanks to competitive salaries and exciting opportunities, professionals working in these fields report some of the highest levels of job satisfaction globally (Engineers Australia, 2012).

A degree in engineering or computer science will reward you while you study, and long after. You will be challenged, placed at the forefront of technological innovation, and have the opportunity to develop transferrable skills that can be applied in a range of professional contexts.

The job market is continually changing. Traditional vocations are disappearing or transforming, while new jobs are emerging in response to contemporary needs. Studying engineering or computer science will provide you with skills and attributes that will remain relevant and keep you competitive in the evolving job market.

Future-proof yourself with an engineering or computer science degree from ANU.

In this day and age, the demand for engineers is high. Yet Australia is currently only producing about half the qualified engineers that it needs.

The skills you develop through an engineering degree can be applied in a huge range of contexts. Engineering can lead to a truly rewarding career where you will have an opportunity to make a real impact to the world around you.

“Professor Elanor Huntington
Dean, ANU College of Engineering and Computer Science.
#1

**International outlook**
Ranked first in Australia and 25th in the world for international outlook.¹

**Accredited**
Six of our undergraduate programs are professionally accredited by Engineers Australia and/or the Australian Computer Society.

**Most employable graduates**
Ranked first in Australia, and 22nd in the world for Graduate Employability.²

**Innovative approach**
Develop your ideas and launch your own company through our program TechLauncher.

**Graduate salary**
Five star maximum ratings for five assessment criteria including graduate starting salary.

**Modern degrees**
Offered nowhere else in Australia, our engineering programs are modern and unique.

---

## OUR DEGREES

Choose from eight undergraduate programs, including two Research and Development degrees for high achievers and our Diploma of Computing.

### Undergraduate degrees

<table>
<thead>
<tr>
<th>Degree name</th>
<th>Duration (full-time)</th>
<th>2016 Guaranteed ATAR Cut-off*</th>
<th>IB</th>
<th>UK GCE A-levels*</th>
<th>Gao Kao (750) ‡</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engineering</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Engineering (Research and Development) (Honours)</td>
<td>4 years</td>
<td>99</td>
<td>42</td>
<td>22</td>
<td>690</td>
<td>15</td>
</tr>
<tr>
<td>Bachelor of Engineering (Honours)</td>
<td>4 years</td>
<td>90</td>
<td>33</td>
<td>18</td>
<td>570</td>
<td>16</td>
</tr>
<tr>
<td><strong>Computing / IT</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bachelor of Advanced Computing (Research and Development) (Honours)</td>
<td>4 years</td>
<td>99</td>
<td>42</td>
<td>22</td>
<td>690</td>
<td>23</td>
</tr>
<tr>
<td>Bachelor of Applied Data Analytics</td>
<td>3 years</td>
<td>95</td>
<td>38</td>
<td>20</td>
<td>630</td>
<td>24</td>
</tr>
<tr>
<td>Bachelor of Advanced Computing (Honours)</td>
<td>4 years</td>
<td>90</td>
<td>33</td>
<td>18</td>
<td>570</td>
<td>25</td>
</tr>
<tr>
<td>Bachelor of Software Engineering (Honours)</td>
<td>4 years</td>
<td>87</td>
<td>32</td>
<td>17</td>
<td>551</td>
<td>27</td>
</tr>
<tr>
<td>Bachelor of Information Technology</td>
<td>3 years</td>
<td>80</td>
<td>29</td>
<td>14</td>
<td>525</td>
<td>27</td>
</tr>
<tr>
<td>Diploma of Computing*</td>
<td>1 year</td>
<td>70</td>
<td>26</td>
<td>N/A</td>
<td>506</td>
<td>28</td>
</tr>
</tbody>
</table>

### Already thinking about postgraduate study?

We offer postgraduate study programs in the fields of engineering and computer science.

<table>
<thead>
<tr>
<th>Degree name</th>
<th>Duration (full-time)</th>
<th>Degree name</th>
<th>Duration (full-time)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Engineering in Mechatronics</td>
<td>2 years</td>
<td>Graduate Diploma of Computing</td>
<td>1 year</td>
</tr>
<tr>
<td>Master of Engineering in Photonics</td>
<td>2 years</td>
<td>Graduate Diploma of Applied Data Analytics^</td>
<td>1 year</td>
</tr>
<tr>
<td>Master of Engineering in Digital Systems and Telecommunications</td>
<td>2 years</td>
<td>Master of Applied Data Analytics ^</td>
<td>1.5 years</td>
</tr>
<tr>
<td>Master of Engineering in Renewable Energy</td>
<td>2 years</td>
<td>Master of Computing</td>
<td>2 years</td>
</tr>
<tr>
<td>Master of Philosophy (MPhil)</td>
<td>2 years</td>
<td>Doctor of Philosophy (PhD)</td>
<td>4 years</td>
</tr>
</tbody>
</table>

### For more information on our programs go to programsandcourses.anu.edu.au

* If you achieve the guaranteed ATAR, and the degree is ranked as your first eligible degree preference in UAC, you are guaranteed an offer to that degree.  
‡ GCE A Levels are assessed by the best three or best four subjects. A’=6, A=5, B=4, C=3, D=2, E=1. If four or more subjects are presented, the best four or best three subjects will be used, whichever provides the highest rank.  
* This program is completed at ANU College. See anucollege.edu.au.  
‡ Minimum result for consideration indicated - case by case consideration. College approval required.
TURN YOUR PASSION INTO A CAREER

Bachelor of Engineering (R&D)
Bachelor of Engineering
Technology entrepreneur
ICT Leader
Researcher
Consultant
Technology researcher and developer
Bachelor of Advanced Computing
ICT specialist
IT consultant
Game developer
Software developer
Software consultant
Web developer
IT specialist
Data scientist
Information and data analyst
Policy analyst
Database administrator and developer
Bachelor of Applied Data Analytics
Senior Manager
Senior leader
Consultant
Researcher
Reader
ICT specialist
IT consultant
Game developer
Software developer
Software consultant
Web developer
IT specialist
Data scientist
Information and data analyst
Policy analyst
Database administrator and developer
Senior Manager
Senior leader
Consultant
Researcher
Reader
Accredited engineer in your specialisation:
Biomedical
Electronic and Communication
Mechanical and Material Systems
Mechatronic
Photonic
Renewable Energy and Sustainable Systems
IT, Computing and Mathematics
Engineering, Mathematics, Physics, Chemistry and Biology
Bachelor of Applied Data Analytics
Bachelor of Advanced Computing
Bachelor of IT
Bachelor of Software Engineering
Bachelor of Advanced Computing (R&D)
Bachelor of Engineering (R&D)
Bachelor of Engineering
Senior Manager
Project manager
Consultant
Researcher
Reader
Areas of study that I enjoy
Degree options
Career possibilities
The connections you make at university can help shape your future. At ANU, our academics and teaching staff are leaders in their fields and our alumni enjoy successful careers all over the world. At ANU, you will connect with current mentors and future colleagues, and start building a valuable network.

Accreditation

Our undergraduate degrees are professionally accredited by Engineers Australia and/or the Australian Computer Society.

**Engineers Australia**

ANU Engineering and Software Engineering graduates will be Accredited Engineers through Engineers Australia (EA). EA is recognised by international body the Washington Accord meaning you can work overseas in places like the United Kingdom, the United States, Hong Kong, South Africa and Japan. We encourage our students to join Engineers Australia for free to start networking and possibly meet future employers.

Accredited Degrees:

- Bachelor of Engineering (Honours)
- Bachelor of Engineering (Honours) (Research and Development)
- Bachelor of Software Engineering (Honours)

**Australian Computer Society**

The Australian Computer Society is the professional association for Australia's Information and Communication Technology sector. ANU Computing graduates will be professionally accredited through the Australian Computer Society. We encourage our computing students to join as student members to take advantage of benefits such as access to networking events, digital magazines and professional development opportunities.

Accredited Degrees:

- Bachelor of Information Technology *
- Bachelor of Software Engineering (Honours)
- Bachelor of Advanced Computing (Honours)
- Bachelor of Advanced Computing (Honours) (Research and Development)

Connections

The Australian National University and the ANU College of Engineering and Computer Science is a member of, and has established connections with some of Australia’s leading industry groups and international alliances.

**Group of Eight**

ANU belongs to the Group of Eight, a coalition of leading Australian universities, comprehensive in general and professional education, and distinguished by depth and breadth in research.

**IARU**

ANU is the only Australian member of the International Alliance of Research Universities, a collaboration of ten of the world’s leading research-intensive universities committed to educating future leaders including Oxford, Yale and Cambridge.

**Data61**

Data61 is Australia’s leading digital research network. Our students can receive scholarships, research opportunities and support for student initiatives through Data61.

**CSIRO**

The Commonwealth Scientific and Industrial Research Organisation (CSIRO) is Australia’s national agency for scientific research. With offices within the College, our students regularly undertake research, work experience and graduate placements with CSIRO.

Industry partners

We have close links to many industry partners such as Google, Facebook, The Boeing Company, KPMG, IBM, Microsoft and start-up companies founded by our graduates. More about our industry partners and career outcomes can be found on page 44.

* Only when completing the Information Systems or Software Development major.
Graduate with two qualifications

ANU has pioneered the Flexible Double Degree so you can satisfy your intellectual curiosity and tailor your studies to prepare for your dream career.

> You will have a clear advantage when applying for jobs

> It takes less time than studying two undergraduate degrees separately

> You will have the same full-time workload as a student studying a single undergraduate degree.
FLEXIBLE DOUBLE DEGREE GROUPS

You can build your own double degree at ANU. There are three groups, we’ve listed some of the common combinations below, but there are many more degrees that you can combine. Visit programsandcourses.anu.edu.au to view them all.

**Arts, Social Sciences, Business or Science**  
UAC code: 130010

<table>
<thead>
<tr>
<th>Four years full time</th>
<th>And combine with one of these:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of these:</td>
<td>Accounting 86 ATAR</td>
</tr>
<tr>
<td>Bachelor of Information Technology 80 ATAR</td>
<td>Design Arts A+C</td>
</tr>
<tr>
<td>Applied Data Analytics 95 ATAR</td>
<td>Actuarial Studies* 89 ATAR</td>
</tr>
<tr>
<td></td>
<td>International Relations 89 ATAR</td>
</tr>
<tr>
<td></td>
<td>Arts 80 ATAR</td>
</tr>
<tr>
<td></td>
<td>Medical Science* 90 ATAR</td>
</tr>
<tr>
<td></td>
<td>Asian Studies 80 ATAR</td>
</tr>
<tr>
<td></td>
<td>Music~ 80 ATAR</td>
</tr>
<tr>
<td></td>
<td>Science 80 ATAR</td>
</tr>
<tr>
<td></td>
<td>Commerce^ 82 ATAR</td>
</tr>
</tbody>
</table>

**Law**  
UAC code: 137010

<table>
<thead>
<tr>
<th>Five years full time</th>
<th>And combine with this:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of these:</td>
<td>Laws Honours 98 ATAR</td>
</tr>
<tr>
<td>Bachelor of Information Technology 80 ATAR</td>
<td></td>
</tr>
<tr>
<td>Applied Data Analytics 95 ATAR</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering or Advanced Computing**  
UAC code: 135010

<table>
<thead>
<tr>
<th>Five years full time</th>
<th>And combine with one of these:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Choose one of these:</td>
<td>Arts 80 ATAR</td>
</tr>
<tr>
<td>Bachelor of Advanced Computing (Honours)* 90 ATAR</td>
<td>Information Technology* 80 ATAR</td>
</tr>
<tr>
<td>Advanced Computing (R&amp;D) (Honours)* 90 ATAR</td>
<td>Science^ 80 ATAR</td>
</tr>
<tr>
<td>Engineering (Honours)* 90 ATAR</td>
<td>Business Administration 82 ATAR</td>
</tr>
<tr>
<td>Engineering (R&amp;D) (Honours)* 90 ATAR</td>
<td>Applied Data Analytics 95 ATAR</td>
</tr>
<tr>
<td>Software Engineering (Honours)* 87 ATAR</td>
<td>Commerce^ 82 ATAR</td>
</tr>
<tr>
<td></td>
<td>Economics^ 86 ATAR</td>
</tr>
<tr>
<td></td>
<td>Finance^ 86 ATAR</td>
</tr>
</tbody>
</table>

A+C Group ATAR plus interview/portfolio or audition requirements apply. See soa.anu.edu.au/apply for more information. ~ Entrance to Performance courses are by audition. E schoolofmusic@anu.edu.au ^ Program includes another prerequisite in addition to ATAR. * Program has assumed knowledge
The courses you take will depend on the structure of your degree and any majors or areas of specialisation you choose to focus on during your studies at ANU.

### Single Degree

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Major, Minor, Elective, Elective</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Major, Minor, Elective, Elective</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Major, Major, Elective, Elective</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Major, Minor, Elective, Elective</td>
</tr>
</tbody>
</table>

### Flexible Double Degree

#### Four year double degree e.g. Bachelor of Information Technology/Bachelor of Science

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Programming as Problem Solving, Discrete Mathematical Models, Science Major, Science Elective</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Software Design Methodologies, Computer Organisation and Program Execution, Science Major, Science Elective</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Computing Elective, Computing Elective, Science Major, Science Minor</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Computing Elective, Computing Elective, Science Major, Science Minor</td>
</tr>
</tbody>
</table>

#### Five year double degree e.g. Bachelor of Engineering (Honours)/Bachelor of Commerce

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Discovering Engineering, Mathematics and Applications 1, Physics 1, Business Reporting and Analysis</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Introduction to Mechanics, Introduction to Electronics, Mathematics and Applications 2, Quantitative Research Methods</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Engineering Sciences, Mechanical Systems and Design, Electronic Systems and Design, Microeconomics 1</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Programming for Scientists, Engineering Major Course, Microeconomics 1, Commerce Major Course</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Computing for Engineering Simulation, Systems Engineering Design, Engineering Major Course, Commerce Major Course</td>
</tr>
</tbody>
</table>

**Major:** An area within a program that allows in-depth study in a particular field. A major usually consists of a set number of related courses. Majors at ANU require 48 units (eight courses).

**Minor:** A minor has fewer requirements to fulfil than a major, in terms of units and compulsory courses. Minors at ANU require 24 units (four courses).

**Specialisation:** Similar to minors, specialisations are areas of study with their own courses that can be taken in conjunction with a specific related major.

**Elective:** An optional area of study selected in addition to the core courses of the program. Electives may allow you to delve more deeply into an area of study, or focus on an alternative area of interest that you may have. Many people will use electives to complete an additional major or minor.

**Course:** An area of study usually of one semester in length. Example: COMP1100 Introduction to Programming and Algorithms.

**Unit:** An indicator of the value of a course—most courses are valued at six units.
Designed with industry partners, our engineering degrees ensure you develop the skills and expertise that will get you hired.

Leading organisations across government, industry and business need modern engineers who can adapt to new technologies, lead engineering teams and who possess skills and expertise across multiple engineering fields.

That’s why we teach systems engineering at ANU. The unique interdisciplinary nature of our degrees will prepare you to design, analyse and manage complex systems or projects, for example, a plane, car or mobile phone. Systems engineering transcends software, electrical and mechanical engineering asking that engineers provide the big picture, and work across teams.

In your first year and a half you’ll study the core foundation and engineering courses, and then you’ll choose an engineering major to specialise in.

In Australia, ANU is the only Australian university whose engineering degree is built on systems engineering. Graduates from other universities often have to complete a postgraduate degree to further develop their expertise.

ANU is the first university in Australia to offer courses in Humanitarian Engineering with global opportunities.

Systems engineering is taught at other world-class universities like the University of Cambridge and Massachusetts Institute of Technology (MIT).
Creating the modern engineer with systems engineering

ANU is creating the modern engineer with systems engineering. Our engineering degrees are designed with industry to ensure you develop the skills and expertise that are in global demand.

The unique interdisciplinary nature of our degrees goes beyond traditional engineering fields. It will prepare you to design, analyse, and manage the complex systems that are prevalent in our society.

Take this car for example. How can you improve its fuel efficiency? What materials could make this car safer or lower production costs? There is so much to consider when solving these problems - it runs on a computer, uses communication and network systems and may be able to park itself.

At ANU, our engineering degrees are designed to give you the skills and expertise to work on interdisciplinary systems like this and so much more!

**What you'll get in an ANU engineering degree**

**What you'll study**

- Core disciplines that modern engineers must understand like electronics, mathematics, mechanics, physics, programming and more.
- Commercial imperatives like management, innovation, systems design, analysis, real world projects and more.

**What you'll receive**

- An interdisciplinary understanding of engineering and a clear advantage when you graduate and enter the workforce.
- In-demand skills and experience in analysing, designing and managing complex projects and working in and managing teams.
- Specialist expertise in at least one engineering discipline, giving you breadth and depth in your knowledge of the field.

**Electrical Engineering**

Program a micro-processor

**Materials Engineering**

Design a lighter carbon fibre body

**Control Engineering**

Invent a more responsive sensor for cruise control

**Mechanical Engineering**

Test a new fuel efficient engine

**Renewable energy**

Design an electric car re-charged by the sun

**An engineering major**

- Biomedical Systems
- Electronic and Communication Systems
- Mechanical and Material Systems
- Mechatronic Systems
- Photonic Systems
- Renewable Energy Systems
- Sustainable Systems
BACHELOR OF ENGINEERING
(Research & Development)(Honours)

ATAR: 99
UAC Code: 135000
CRICOS Code: 060542F

About the degree
Stand out with your capacity for innovation. In this program you will undertake advanced courses and work alongside distinguished researchers completing research projects in an engineering field that interests you. You will study engineering fundamentals while you are immersed in a research area such as biomedical engineering, mechatronics, solar energy, materials and manufacturing, computer vision for example.

This exceptional degree will allow you to excel in your career, make a real difference to society and help to solve some of the world’s largest problems.

Career outcomes
Our Research and Development (R&D) degrees have a strong professional focus leading to an easy transition into an R&D role as an Accredited Engineer in industry. Equally, the advanced nature of the program ensures those looking to undertake postgraduate research can move into academia.

Majors
> Biomedical Systems
> Electronic and Communications Systems
> Mechanical and Material Systems
> Mechatronic Systems
> Photonic Systems
> Renewable Energy Systems
> Sustainable Systems

Accreditation
Graduates of this degree will be Accredited Engineers through the professional body Engineers Australia.

So far, the R&D degree has given me a very rounded view of what it is like to work in large collaborative teams. I’ve worked on a project investigating regenerative medicine. Currently I am working on a materials based project for use in automobile and aerospace applications.

Thomas Larkin
Bachelor of Engineering (R&D) (Honours)/Bachelor of Arts
This elite engineering degree will give you access to an innovative structure so you can get involved in project-based research courses in engineering.

As part of the Bachelor of Engineering (R&D) (Honours) you will be given unique opportunities to complete exciting research projects with our world-class academics.

From the second year of your degree onwards, these research projects will form part of your coursework, exposing you to cutting-edge research and development activities that are taking place in engineering at ANU.

These research projects are based in different research areas at ANU or within an associated industry partner. You’ll get a taste of what it’s like to undertake research in various engineering disciplines, whilst developing valuable independent research skills.

Did you know?

> The Bachelor of Engineering is a pathway into the R&D program. If you receive a distinction average in your first year of study, you can apply to transfer into the R&D program.

> Research opportunities are not only available through research projects. Students can undertake Summer Research Scholarships, or voluntarily work with an academic in an area that interests them.

"The R&D Program gives students the chance to undertake multiple research projects, in a range of disciplines, as part of their engineering degree. The projects are supervised by leading researchers across the College. It’s a great foundation for students thinking of going on to research positions in industry, or a PhD."

Dr Daniel MacDonald
Convenor of the Bachelor of Engineering (R&D) (Honours).
**Bachelor of Engineering (Honours)**

**ATAR:** 90  
**UAC Code:** 135004  
**CRICOS Code:** 077943E

**About the degree**

Do you want to make a difference to society, or solve some of the world’s largest problems? Would you like to make solar energy technology more efficient, invent the next generation of smartphones or new materials that support the growth of human cells? If you’re creative, enjoy teamwork, mathematics or science, then engineering could be for you.

The unique interdisciplinary nature of this degree goes beyond traditional engineering fields. It will prepare you to design, analyse, and manage the complex systems that are prevalent in our society. You will be exposed to several engineering disciplines during your degree – not just one – as well as acquiring deep expertise in a discipline of your choice. For the first 18 months, you will study core foundation and engineering courses. After that, you can choose to specialise in anything from biomedical systems to mechatronics.

**Career outcomes**

Engineering careers are diverse and in demand in Australia and overseas. At ANU you will develop skills and abilities that are highly sought after in engineering and other organisations. Due to the unique interdisciplinary approach, many of our graduates quickly progress to senior roles. For more information about engineering careers, turn to page 44.

**Majors**

For a list of majors, see the following page.

**Accreditation**

Graduates of this degree will be Accredited Engineers through the professional body Engineers Australia.

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**Degree structure**

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Discovering Engineering</td>
<td>Introduction to Mechanics</td>
</tr>
<tr>
<td></td>
<td>Engineering Sciences</td>
<td>Introduction to Electronics</td>
</tr>
<tr>
<td></td>
<td>Physics 1</td>
<td>Programming for Scientists</td>
</tr>
<tr>
<td></td>
<td>Mathematics &amp; Applications 1</td>
<td>Mathematics &amp; Applications 2</td>
</tr>
<tr>
<td>2</td>
<td>Systems Engineering Design</td>
<td>Systems Engineering Analysis</td>
</tr>
<tr>
<td></td>
<td>Mechanical Systems &amp; Design</td>
<td>Engineering Major</td>
</tr>
<tr>
<td></td>
<td>Electronic Systems &amp; Design</td>
<td>Elective Course</td>
</tr>
<tr>
<td></td>
<td>Computing for Engineering Simulation</td>
<td>Elective Course</td>
</tr>
<tr>
<td>3</td>
<td>Engineering Management</td>
<td>Engineering Innovation</td>
</tr>
<tr>
<td></td>
<td>Engineering Major</td>
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<td>Engineering Major</td>
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<td></td>
<td>Elective Course</td>
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<tr>
<td>4</td>
<td>Systems Engineering Project</td>
<td>Individual Project</td>
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<td>Individual Project</td>
<td>Engineering Core Course</td>
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<tr>
<td></td>
<td>Engineering Major</td>
<td>Engineering Core Course</td>
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<td>Elective Course</td>
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“The systems engineering focus at ANU is the perfect way for me to study engineering. I get to study a variety of engineering disciplines, learn about project management and innovation, and develop skills in problem solving and systems analysis.”

---

**Emily Campbell**  
Bachelor of Engineering (Honours)/Bachelor of Arts
ENGINEERING MAJORS

Your engineering major will provide you with expertise in at least one engineering discipline, giving you breadth and depth in your knowledge of the field.

Biomedical Systems
Biomedical engineering is an interdisciplinary field that merges biological research with various fields of materials engineering, imaging and sensing, and nanotechnology. This major has a particular emphasis on the emerging field of bio-nanotechnology, which can be exploited to create new materials for advanced medical outcomes.

Electronic and Communication Systems
This major brings together the fundamentals of electronics, from analogue and digital electronics to complete electronic systems, which underpin all modern communications systems. Electronic and communication technologies are critical for a wide range of applications such as the internet, smart phones and smart sensors.

Mechanical and Material Systems
This major has a focus on the relationship between the microstructure of materials, processing, and their mechanical behaviour. Students will study a broad range of materials including, metals, ceramics, polymers and fibre-reinforced composites. These materials have applications in a range of industries such as energy, automotive, aerospace and transport.

Mechatronic Systems
Mechatronics is an emerging engineering discipline based on the integration of mechanical, electrical and computing technology for advanced engineering applications. Engineers with a specialisation in mechatronics are at the forefront of developments in defence, space, medical, transport, mining and manufacturing industries.

Photonic Systems
 Photonics relates to the manipulation, transmission and storage of light data. The main application for many years has been in the development of the world’s vast fibre optic telecommunications networks. Now there is an increasing use of photonics in a broad range of human endeavours such as sensing, security, architecture, astronomy, transport, medicine, solar energy, nanophotonics and forensic science.

Renewable Energy Systems
Students who complete this major will be at the forefront of technological developments that will provide solutions to future energy needs. This major is aligned with extensive research into photovoltaic and solar thermal energy systems.

Sustainable Systems*
It is important for engineers to have an awareness of the factors that comprise sustainability as this will add to the complexity of their future practice. There is growing demand from industry for graduates with knowledge and skills in sustainability.

*Only possible as a second engineering major.
Practical Experience

Work Experience

Our engineering students take part in 60 days of work experience to meet accreditation requirements with Engineers Australia. Work experience offers students the opportunity to integrate academic theory and real world practice, enhance technical and leadership skills, experience a professional setting, whilst also making valuable connections with industry.

Projects

In addition to compulsory work experience, our engineering students undertake a systems engineering industry project. In these projects students work in teams on a given problem statement and develop the requirements and key performance indicators to guide them through the design. The teams then proceed through a systems design process including conceptual design, sub-system requirements, and quantitative trade-off analyses, using the full range of engineering science and professional skills developed during the program. The project emphasises teamwork, communication skills, team and personal management and a professional approach to engineering design.

Internships

Through our industry links, students are offered opportunities to undertake internships. This allows students to gain hands-on experience in a workplace environment relevant to their area of future career interests and current academic studies. Students can receive credit towards their program based on learning outcomes during their placement in the course Engineering Internships ENGN3200.

Towards the end of my degree, I worked as a project officer in the ICT industry. It was a great opportunity to apply some of the systems engineering principles gained in the earlier years of the degree in real-world projects. There's an abundance of opportunities available for part-time and full-time work in Canberra to check out.

Shaw Kudo

Bachelor of Engineering (Honours)/Asian-Pacific Studies
Prepare for jobs of the future in one of Australia’s fastest growing industries.

At ANU, our undergraduate courses in computing focus on the disciplines of computer science, computing, information technology and software engineering. These degrees will provide you with the skills, experience and tools to become innovators and future leaders of the ICT revolution; developing solutions to solve complex, real world problems through emphasising foundations, creativity, design and engineering processes. Our students are in high demand as interns, and regularly win industry awards for their outstanding work.

The world-class resources and industry linkages of the Research School of Computer Science mean you will have the opportunity to work closely with Data61 – Australia’s leading digital research network, the Computational Informatics Division of the CSIRO and the National Computational Infrastructure facility, home to Australia’s largest open supercomputer system.

In Australia’s fastest growing industry, graduates of computing degrees can expect attractive salary prospects, strong job opportunities and great job satisfaction. Graduates are widely recognised as solid professionals who are able to drive innovation in industry and government.

Many of our graduates receive funding and successfully start their own companies after graduating or even before graduating.

ANU is home to Raijin—Australia’s most powerful supercomputer.

As a student, you have the opportunity to get involved with Raijin.
Innovative and disruptive ideas often emerge in the boundaries between disciplines. TechLauncher will connect students with great ideas to the technical expertise required to bring the ideas to life.

Dr Shayne Flint
TechLauncher Coordinator
Bachelor of Advanced Computing (Research & Development) (Honours)

About the program

Be unique and get innovative. This interdisciplinary program is designed for high achieving students and will prepare you to be a future leader of the information and communications technology revolution.

In this program you will learn advanced computing techniques and have the opportunity to complete a unique specialisation, and you will also develop exceptional professional skills including communication and teamwork. It also is a great pathway to a PhD.

Throughout the program you will work alongside distinguished researchers at ANU and pursue research projects in your own area of interest.

Career outcomes

This professional, distinguished undergraduate degree is like no other in Australia and as a graduate of this program, you will be uniquely position to develop technical or research orientated career in industry, or undertake postgraduate research in computing. Opportunities exist in high-tech industries, software start-up companies, computing research and development as well as specialised computing companies.

Majors

For a list of majors, turn to page 30.

Accreditation

Graduates of this degree will be accredited through the Australian Computer Society.

Degree structure

Year | Semester 1 | Semester 2
--- | --- | ---
1 | Programming as Problem Solving (Advanced) | Structured Programming (Advanced)
   | Discrete Mathematical Models | Foundations of Computing
   | Mathematics and Applications 1 | Mathematics and Applications 2
   | Elective Course | Elective Course
2 | Software Design Methodologies | Software Engineering
   | Computer Organisation and Program Execution | Systems, Networks and Concurrency
   | Introduction to Data Management, Analysis and Security | Studies in Advanced Computing R&D
   | Advanced Computing R&D Methods | Algorithms
3 | Computing Research Specialisation | Computing Research Specialisation
   | Individual Research Project | Individual Research Project
   | Elective Course | Elective Course
   | Elective Course | Elective Course
4 | Computing Research Specialisation | Computing Research Specialisation
   | Advanced Computing Research Project | Advanced Computing Research Project
   | Advanced Computing Research Project | Advanced Computing Research Project

ATAR: 99  
UAC Code: 135700  
CRICOS Code: 085359K

The Bachelor of Advanced Computing (R&D) (Honours) has let me see the cutting edge in multiple fields of computing, and I’ve gained first-hand experience of what research is like, in a way that a typical degree wouldn’t.

Dmitry Brizhinev  
Bachelor of Advanced Computing (R&D) (Honours)
COMPUTING RESEARCH PROJECTS

This elite computing project will give you the opportunity to work on real research projects either in a group or on your own, from a variety of areas within the College.

In Computing Research Projects you will undertake an accelerated mode of learning, and the tools to develop the next generation of computing applications.

From the second year of your degree onwards, these research projects will form part of your coursework, exposing you to cutting-edge research and development activities that are taking place in computer science at ANU.

These research projects are based in different research areas at ANU or within an associated industry partner. You’ll get a taste of what it’s like to undertake research in various engineering disciplines, whilst developing valuable independent research skills.

In the Bachelor of Advanced Computing (R&D) (Honours) students learn the foundations of computer science upon which they build knowledge and skills in specialised areas of computing such as computer systems, artificial intelligence, and theoretical computing. Students also undertake individual research projects with some of Australia’s leading computing researchers pushing the boundaries of what computers can do.

Dr Eric McCreath
Convenor of the Advanced Computing R&D program.

R&D student project examples

Robust Map-Augmented Localisation Using Partile Filters

In this project software was created to track the location of a car, taking into account readings from a GPS receiver, wheel sensors, and knowledge of where the vehicle “should be” according to a street map. Using all three sources of information offers superior accuracy to using only raw GPS readings, which is helpful for street navigation and autonomous vehicles.

Video Pose Estimation with Convolutional Neural Networks Recombination

This project aimed to perform pose estimation, the location of a person’s joints, in videos by combining a state-of-the-art neural network-based pose estimation system for still images with an existing algorithm for pose estimation in videos. The latter algorithm processed video frames using an inferior method to the former neural network-based algorithm, but compensated with a high-level understanding of motion across entire video sequences. Hence, combining the two algorithms yielded a slight boost in accuracy.

Research Themes

Intelligence
- Data Mining & Matching
- Knowledge
- Representation and Reasoning
- Machine Learning
- Planning and Optimisation

Systems
- High Performance Computing
- Human-Centred Computing
- Programming Languages, Design & Implementation
- Software Engineering

Theory
- Algorithms
- Databases
- Logic

Did you know?

> If you missed out on academic entry to R&D you can transfer into the degree if you maintain a high distinction average in your first year of study.

> Research opportunities are not only available through research projects. Students can undertake Summer Research Scholarships, or voluntarily work with an academic in an area that interests them.
BACHELOR OF APPLIED DATA ANALYTICS

ATAR: 95  
UAC Code: 135801  
CRICOS Code: 094621D

About the degree

This program was developed to meet demands for a workforce with skills in data analytics to inform high-quality, data-driven decision-making. This reflects a wider challenge to Australian business, government and community in terms of the effective use of public and commercial data for decision-making.

The rapid expansion of a digitally enabled environment has broadened both the threat and the opportunity in data-driven innovation. This multi-disciplinary bachelor degree comprising computer science, statistics, and social science courses can be applied across a host of settings from business, finance and health, through to national security.

Career outcomes

The Bachelor of Applied Data Analytics is an inter-disciplinary degree that is designed to address a global shortage of graduates with skills in data analytics as applied to high-quality, data-informed decision-making. It is designed to develop inter-disciplinary knowledge across the three base disciplines of computing, statistics and social science. Our graduates will be ideally positioned to enter into jobs such as a Technology Entrepreneur, Database Administrator and Developer, Policy Analysis, Information and Data Analysis and Data Scientist.

Elective study

Once you have met the program requirements of your degree, you may have enough electives to complete an additional major, minor or specialisation.

Degree structure

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The Art of Computing</td>
<td>The Craft of Computing</td>
</tr>
<tr>
<td></td>
<td>Statistical Techniques</td>
<td>Relational Databases</td>
</tr>
<tr>
<td></td>
<td>Algebra and Calculus Methods</td>
<td>Foundations of Social Research</td>
</tr>
<tr>
<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
</tr>
<tr>
<td>2</td>
<td>Data Mining</td>
<td>Data Wrangling</td>
</tr>
<tr>
<td></td>
<td>Introductory Mathematical Statistics</td>
<td>Regression Modelling</td>
</tr>
<tr>
<td></td>
<td>Population Analysis</td>
<td>Online Research Methods</td>
</tr>
<tr>
<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
</tr>
<tr>
<td>3</td>
<td>Social Science of the Internet</td>
<td>Graphical Data Analysis</td>
</tr>
<tr>
<td></td>
<td>Data for Decision Making</td>
<td>Statistical Learning</td>
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<tr>
<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
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<td></td>
<td>Elective Course</td>
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</tbody>
</table>

Honours Year

An honours year of the Bachelor of Applied Data Analytics is also available for eligible students. The honours year will provide you with high level preparation for life as a practitioner or for undertaking further study. You will be provided with research methods and principles training, undertake some advanced coursework, and complete a major research project.

"The program is built on world-leading and unique expertise across three disciplines – computing, statistics and social science. Courses will also cover current industry and research developments in topics related to data analytics."

Dr Qing Wang  
Bachelor of Applied Data Analytics  
Course Convenor
About the degree

There is hardly an aspect of modern society untouched by the computing revolution. Some of the biggest challenges we face today, including climate change and health, will all be solved with an ICT component, whether it is in predicting efficiencies in renewable energy systems or using machine based learning to diagnose illnesses.

In this program you will learn advanced computing techniques and have the opportunity to complete a unique specialisation. You will also develop exceptional professional skills including communication and teamwork.

If you are interested in mastering challenging projects, the Bachelor of Advanced Computing (Honours) can launch you into an amazing career. There are many innovative ways to use skills from this course in a range of disciplines.

Career outcomes

The best computing professionals often have knowledge in fields wider than computing alone. Our graduates will be ideally positioned to shape their chosen sector of the computing industry now and into the future, acquiring the skills and knowledge to become leaders in the ICT industry.

Majors

For a list of majors, turn to page 30.

Accreditation

Graduate of this degree will be accredited through the Australian Computer Society.

Degree structure

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Programming as Problem Solving</td>
<td>Structured Programming</td>
</tr>
<tr>
<td></td>
<td>Discrete Mathematical Models</td>
<td>Foundations of Computing</td>
</tr>
<tr>
<td></td>
<td>Computing Elective</td>
<td>Computing Elective</td>
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<tr>
<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
</tr>
<tr>
<td>2</td>
<td>Software Design Methodologies</td>
<td>Software Engineering</td>
</tr>
<tr>
<td></td>
<td>Computer Organisation and Program Execution</td>
<td>Systems, Networks and Concurrency</td>
</tr>
<tr>
<td></td>
<td>Introduction to Data Management, Analysis and</td>
<td>Algorithms</td>
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<td></td>
<td>Security</td>
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<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
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<tr>
<td>3</td>
<td>Computing Research Specialisation</td>
<td>Computing Research Specialisation</td>
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<td></td>
<td>Advanced Computing Research Methods</td>
<td>Computing Elective</td>
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<td>Computing Elective</td>
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<td>Elective Course</td>
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<tr>
<td>4</td>
<td>Computing Research Specialisation</td>
<td>Computing Research Specialisation</td>
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<td></td>
<td>Advanced Computing Research Project</td>
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<td>Advanced Computing Research Project</td>
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</table>

ATAR: 90  Duration: 4 years  UAC Code: 135705  CRICOS Code: 077939A

“

It is common practice for academics to bring their research into class and I get to work with the latest technology either in the form of assignments or lab work. I get to see the future advances in computing while they are still being developed.

“

Shreyas Nagarajappa

Bachelor of Advanced Computing (Honours)
About the degree
Software Engineering is about building effective software systems that address complex problems in a broad range of domains including transport, finance, medicine, science and the arts.

We adopt a systems approach that not only covers the technical aspects of professional practice, innovation and research, but also the complex socio-technical context in which these activities occur. This includes approaches to deal with uncertainty and risk, design, modern management practices, ethics and communication.

You will develop these skills and capabilities through a balance of theoretical study, team projects with industry partners, and work experience. You also have the opportunity to develop innovation and entrepreneurial capabilities by working on your own start-ups with industry entrepreneurs.

Career outcomes
Upon graduation you will be accredited by both Engineers Australia and the Australian Computer Science Society opening up a wide range of job possibilities. The technical depth and real-world competencies achieved by our graduates are what can often differentiate the ordinary from the best in the software industry.

Majors
For a list of majors, turn to page 30.

Accreditation
Graduates of this degree will be Accredited Engineers through the professional body Engineers Australia as well as through the Australian Computing Society.

Degree structure

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>1</td>
<td>Programming as Problem Solving</td>
<td>Structured Programming</td>
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<tr>
<td></td>
<td>Discrete Mathematical Models</td>
<td>Foundations of Computing</td>
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<tr>
<td></td>
<td>Discovering Engineering</td>
<td>Computing Elective</td>
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<td>Elective Course</td>
<td>Elective Course</td>
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<tr>
<td>2</td>
<td>Software Design Methodologies</td>
<td>Software Engineering</td>
</tr>
<tr>
<td></td>
<td>Computer Organisation and Program Execution</td>
<td>Systems, Networks and Concurrency</td>
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<tr>
<td></td>
<td>Introduction to Data Management, Analysis and Security</td>
<td>Algorithms</td>
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<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
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<tr>
<td>3</td>
<td>Software Engineering Project</td>
<td>Software Engineering Project</td>
</tr>
<tr>
<td></td>
<td>Managing Software Development</td>
<td>Computing Elective</td>
</tr>
<tr>
<td></td>
<td>Systems Engineering for Software Engineers</td>
<td>Computing Elective</td>
</tr>
<tr>
<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
</tr>
<tr>
<td>4</td>
<td>Software Engineering Practice</td>
<td>Software Engineering Practice</td>
</tr>
<tr>
<td></td>
<td>Managing Software Quality &amp; Process</td>
<td>Engineering Innovation</td>
</tr>
<tr>
<td></td>
<td>Advanced Computing Research Methods</td>
<td>Computing Elective</td>
</tr>
</tbody>
</table>
BACHELOR OF INFORMATION TECHNOLOGY

About the degree

Information Technology (IT) is everywhere – from digital technology in your TV, laptop, gaming system, mobile phone, watch, music, movies, kitchen, car, bank or your next gig tickets. It is changing the way we live, learn, work and even socialise.

In this degree you will get a strong grounding in computing fundamentals to tackle the progressive nature of IT. With IT being an intrinsic part of all industries, knowledge of software development and information systems is highly sought after by all employers.

If you are interested in the IT revolution, joining a truly globalised and fast changing industry, then the ANU Bachelor of Information Technology is for you.

Career outcomes

The career options for ANU graduates in IT, and in particular, students who have completed a combined degree, are wide and varied. IT skills are a real competitive advantage and all organisations, large and small, public and private, need people to work on their IT systems, or to understand them.

Majors

For a list of majors, turn to page 30.

Accreditation

Graduates of this degree will be accredited through the Australian Computer Society.

Degree structure

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
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<tbody>
<tr>
<td>1</td>
<td>Programming as Problem Solving</td>
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<tr>
<td></td>
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<td>Elective Course</td>
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<tr>
<td>2</td>
<td>Software Design Methodologies</td>
<td>Computing Course</td>
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<tr>
<td></td>
<td>Computer Organisation and Program Execution</td>
<td>Computing Course</td>
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<td></td>
<td>Introduction to Data Management, Analysis and</td>
<td>Computing Course</td>
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<td></td>
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<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
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<tr>
<td>3</td>
<td>Managing Software Development</td>
<td>Computing Course</td>
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<td></td>
<td>Elective Course</td>
<td>Elective Course</td>
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</table>

Honours Year

An honours year of the Bachelor of Information Technology is also available for eligible students. The honours program includes advanced coursework and a major individual project. For ANU students, admission is by invitation based on performance. External students may apply direct to the University.

My favourite class has been the Computing Group Project TechLauncher. I learned about leadership, teamwork and project development. I’ve become more comfortable with networking, pitching ideas and bouncing back after failures.

Tong Zhang
Bachelor of Information Technology/
Bachelor of Laws
About the diploma

The Diploma of Computing will provide you with a grounding in all the basic requirements for success in a degree in IT.

The Diploma of Computing is designed for students who are interested in studying a Bachelor of Information Technology at ANU. Graduates who meet the progression requirements may articulate into the Bachelor of Information Technology and may receive up to one year (48 units) of credit. Alternatively, it may be used as an exit point at the Diploma level.

In this program you can major in programming, web design, databases and information systems.

Career Outcomes

Graduates from ANU have been rated as Australia’s most employable graduates and among the most sought after by employers worldwide.

The latest Global Employability University Ranking, published by the Times Higher Education, rated ANU as Australia’s top university for getting a job for the fourth year in a row.

Progression

Upon successful completion of the Diploma of Computing with no more than one fail or incomplete grade, students will be eligible to enter into the second year of the Bachelor of Information Technology.

For more information about the Bachelor of Information Technology, turn to page 28.

Degree structure

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Introduction to Programming and Algorithms</td>
<td>Professional Communication</td>
</tr>
<tr>
<td></td>
<td>Web Development and Design</td>
<td>Foundations of Computing</td>
</tr>
<tr>
<td></td>
<td>Introduction to Software Systems</td>
<td>Business Information Systems</td>
</tr>
<tr>
<td></td>
<td>Relational Databases</td>
<td>Discrete Mathematical Models</td>
</tr>
</tbody>
</table>

The Diploma of Computing will provide you with academic communication skills and discipline-specific knowledge in a hands-on learning environment, while building your confidence and ability to progress to further university study.

Mr Patrick Tran
Convenor of the Diploma of Computing

The Diploma of Computing is a great way to start your university journey. I was impressed with the high quality of the lectures and tutorials, and thoroughly enjoyed the group work that lead to amazing discussions between the students and teachers.

Run Wang
Diploma of Computing
A major or specialisation will provide you with expertise in a computer science discipline, giving you breadth and depth in your knowledge of the field.

**Bachelor of Advanced Computing**

**R&D/Bachelor of Advanced Computing:**

- **Intelligent Systems specialisation**
  Intelligent Systems exceed human intellectual capabilities in an increasing number of domains. This specialisation offers courses in a wide range of topics such as Artificial Intelligence search, optimisation, knowledge representation, reasoning, planning, diagnosis, machine learning, document analysis, intelligent agents, data-driven approaches (mining, matching, wrangling, modelling), and bio-inspired computing (neural networks, evolutionary algorithms, human brain and mind).

- **Systems & Architecture specialisation**
  Computer Systems have provided the software foundations upon which modern applications run. As we push the limits of what can be done, these foundations are also pushed. This major focuses on the computer systems that provide this critical resource and explores topics such as operating systems, networks, concurrency, electronics, embedded systems, and high performance computing.

- **Theoretical Computer Science specialisation**
  Theoretical Computer Science focuses on more abstract or mathematical aspects of computing. You will use the tools of logic and discrete mathematics to investigate the complexity of problems, the scope and limits of computation and the fundamental properties of algorithms. The focus of this specialisation is on the foundations of the entire discipline: the science and mathematics of computation itself.

**Bachelor of Information Technology:**

**Data Science major**

The Data Science major teaches the principles, theories and skills used in developing methods to collect, manage, analyse, and interpret data in various formats and at a large scale. You will learn to use a broad range of techniques to extract knowledge and insights from large and complex data, including structured and unstructured data. The major involves courses in areas such as database systems, data mining, artificial intelligence, machine learning and more.

**Information Systems major**

The Information Systems major integrates conceptual and practical skills related to the creation, flow and usage of information within organisations. You will develop an understanding of organisations, and the knowledge and skills required for systems analysis and design, and to manage organisational computer systems applications.

**Software Development major**

The Software Development major integrates the conceptual and practical skills related to the technology of computer systems used in the creation of high quality software. You will develop the knowledge and skills needed to build software based solutions to complex problems in Information and Communications Technology (ICT), as well as understanding the systems context within which software is developed and operated.

**Did you know?**

> Students studying a single degree in Advanced Computing/Advanced Computing R&D or Software Engineering can choose a major listed above using university electives.

---

### What is the different between an elective, major, minor and specialisation?

<table>
<thead>
<tr>
<th>Elective</th>
<th>Specialisation/Minor</th>
<th>Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>A single course that can be studied in any academic area (6 units)</td>
<td>A group of four courses to give you specialist knowledge in a particular area (24 units)</td>
<td>A group of eight courses to give you in-depth knowledge in a particular area (48 units)</td>
</tr>
<tr>
<td>6 units</td>
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</table>

*This major is not accredited with the Australian Computer Society*
Computing

ANU has provided me the environment to seek out interesting projects, the techniques I’ve needed to complete them and the opportunities to apply my skills to real world problems in industry. During my time here I’ve started a small company, worked on research with Facebook, completed a cybersecurity internship with the Department of Defence, worked on projects with locally and internationally based start-up companies and started a part-time job working in industry applying the skills I’ve learned, and this was just in my first three years! ANU has provided me an environment where opportunities to develop and apply my skills have always been available, you just have to jump in and take them.

Ben Roberts
Bachelor of Software Engineering (Honours)

Work Experience

Our computing students have a vast amount of opportunities to get work experience on their doorstep. Canberra has over 100 IT related companies, many of them with links to ANU such as being our industry partner, have employed our graduates or part of our career fairs. The Australian Computer Society is a great association to get links for work experience during your studies and also for potential employers after graduation.

Projects

TechLauncher exposes our third and fourth year computing students with real industry projects. In teams, students will work with an industry client to develop and deploy a software system. Each group is allocated an industry based mentor and will have the opportunity to present their project at a networking event held each year.

Students also have the option to choose the start-up project for a software-based start-up business. In the first year, students will develop their idea and an initial product. In the second year, students will work towards entering external development programs. Upon graduating, many of our students successfully launch this idea into a real company. For examples see page 44.

Internships

Through our industry links, students are offered opportunities to undertake internships. This allows students to gain hands-on experience in a workplace environment relevant to their future career interests and current academic studies. Students can receive credit towards their program based on learning outcomes during their placement in the course Software Engineering Internships COMP3820.
GLOBAL OPPORTUNITIES

At ANU you will be encouraged to expand your outlook and take advantage of international opportunities. Many of these opportunities can count towards your degree, and you can receive funding for.

Short Term International Opportunities

ANU offers a wide range of short term international opportunities. One example is PRIMO for students in first year, an opportunity no other Australian university offers.

“I absolutely loved my time in China, my studies, the university, the city, the people, the culture, the food, the chaos, all made for an experience that I will never forget. I would definitely recommend for students to take part in this program as well as others that are similar.”

Michaela Gilchrist, Bachelor of Engineering (Honours)

“Engineers Without Borders Design Summits

Engineers Without Borders provides a two-week program that attracts engineering students from around Australia who meet with developing communities to learn about community development, appropriate technology and humanitarian engineering.

“I participated in the Engineers Without Borders Design Summit where I was given the opportunity to visit a rural community in the southwest of India. I saw firsthand the impact that technology can have on people’s lives and I believe that I have become a better and more equipped engineer as a result.”

Liam Highmore, Bachelor of Engineering (Honours)

Globex Program

The Globex Program at Peaking University in China is an intensive exchange opportunity for engineering students held each year in July.

IARU Global Summer Program

ANU is the only Australian member of the International Alliance of Research Universities (IARU). Through IARU, you can study at some of the world’s top universities for up to six weeks and connect with outstanding peers at the University of Cambridge, Yale University, the National University of Singapore and more.
Support for International Travel

At ANU you have many options to receive financial support for your international travel including government funding, scholarships from our industry partners and grants from the university.

Westpac Asian Exchange Scholarship
Receive up to $12,000 to support an overseas learning experience at one of seven top Asian Universities.

New Colombo Plan Scholarship Program
Receive support through the Australian Government Department of Foreign Affairs and Trade for an overseas learning and research experience in the Indo-Pacific Region.

“With a long standing love of travelling, I decided to go on exchange. At the Technical University of Munich (TUM), I had the opportunity of a lifetime, academically TUM provided me with some skills and education that I couldn’t have had at ANU. I met people from all over the world and made life-long friendships.

Imogen Blanch, Bachelor of Engineering (Honours)/ Bachelor of Arts

International Global Exchange

Choose from one of 170 partner universities from 35 different countries and spend one or two semesters at a leading university while you earn credit towards your ANU degree.

“There are many opportunities that ANU offers, and support for you to participate in them. I was lucky enough to be part of the Enabled Futures Singapore Study Tour, assisted by the New Colombo Plan Scholarship. It allowed me to explore the disability and aging context in another country, which was one of the best experiences that I have had at university so far.”

Stephanie Nguyen, Bachelor of Engineering (Honours)

For more information go to: cece.anu.edu.au/current-students
ANU is in the heart of Canberra, Australia’s capital. It’s a thriving city that’s been ranked the world’s most liveable.

**Best city to live in**
Canberra ranked the world most livable city two years in a row according to OECD (2014).

**High income**
Canberra enjoys Australia’s highest average weekly income at $1,702.10

**Diverse population**
The population is truly diverse, attracting people from all corners of Australia and across the world.

**National institutions**
As the capital, Canberra is home to the National Library, Parliament, High Court, numerous museums and embassies.

**Commut**
Canberra offers the smallest commute times in Australia, extensive bike paths and discounts on public transport.

**Road trip?**
Canberra is very well situated between Sydney (three hours drive), the ocean (two hours drive) and the ski fields (two hours drive).

**Weather**
Canberra boasts long sunny days, with an average of 7.4 hours of sunlight.

**Capital**
Canberra is the best place in Australia to experience events of national importance such as Australia Day or high-level visits from President Obama.

**Four seasons**
Canberra is unique in Australia, having all four seasons of the year.
If you want to make friends for life and get involved in extra-curricular activities ANU is the right place for you.

**Campus life**
The combination of guaranteed accommodation and only one campus makes campus life vibrant.

**Feel safe**
Canberra has one of the lowest crime rates in Australia. If you feel unsafe ANU has a bus to take you home.

**Student city**
Canberra is a student city with the highest student population ratio in Australia.

**Libraries**
At ANU you have access to six different libraries, with over 2.5 million physical items, and 63 million electronic resources.

**Hungry?**
ANU has over 35 shops, restaurants and cafes. It also has bank, post office and a gym.

**Close to the city**
The ANU Campus is only 100 steps to the Canberra CBD, and 150 steps to the lake.

**Student clubs**
Over 200 student clubs! Get involved in music, film, sport, debating, Harry Potter or perhaps the Chocolate Appreciation Club?

**Associations**
Engineering (EA) and Computer Science (CSSA) both have very active student associations with game nights, barbeques and more.

**Student initiatives**
Our students are involved in a variety of initiatives such as Robogals, Engineers Without Borders and start-ups.
ACCOMMODATION GUARANTEE FOR NEW UNDERGRADUATE STUDENTS

If you are from outside the ACT region and haven’t studied at university before, you are guaranteed to be offered a place in ANU-approved accommodation.*

To be eligible you must:

> be enrolling in the first semester of your first year of full-time study in an undergraduate degree at ANU
> complete an online accommodation application before the guarantee closing date
> live outside the Canberra area
> receive and accept your academic offer within advertised dates
> accept your accommodation offer within 48 hours of receiving it.

ANU is also offering up to 50 spaces if you are from the local Canberra region.**

Applications are free and there is no obligation, so ensure you apply even if you are only thinking of coming to ANU.

You will have 48 hours to accept your accommodation offer, so make sure you check your emails regularly after you apply.

Applications open for guaranteed accommodation on Sunday 20 August 2017

Check the Accommodation Services website for updates on accommodation, closing dates and how to apply.

> anu.edu.au/study/accommodation

* Please note that this guarantee covers receipt of an accommodation offer to ANU-approved accommodation, and does not guarantee you an offer to a specific hall, college, lodge or other residence.

** Refer to www.anu.edu.au/study/accommodation/accommodation-guarantee for the full Accommodation Guarantee eligibility criteria.
2017 residential fees

<table>
<thead>
<tr>
<th>Residence/Hall/College/Lodge</th>
<th>Catering style</th>
<th>Weekly rent ($)</th>
<th>Registration fee ($) (once only)</th>
<th>Refundable deposit ($)</th>
<th>Residents’ Committee fee ($) (per year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bruce Hall</td>
<td>Fully-catered*</td>
<td>392.05</td>
<td>270.00</td>
<td>1,000.00</td>
<td>165.00</td>
</tr>
<tr>
<td>Burgmann College</td>
<td>Fully-catered*</td>
<td>397.00</td>
<td>285.00</td>
<td>1,000.00</td>
<td>200.00</td>
</tr>
<tr>
<td>John XXIII College</td>
<td>Fully-catered*</td>
<td>390.00</td>
<td>275.00</td>
<td>300.00</td>
<td>247.00</td>
</tr>
<tr>
<td>Ursula Hall</td>
<td>Fully-catered*</td>
<td>376.97</td>
<td>270.00</td>
<td>1,000.00</td>
<td>175.00</td>
</tr>
<tr>
<td>Burton &amp; Garran Hall</td>
<td>Self-catered</td>
<td>215.62</td>
<td>270.00</td>
<td>1,000.00</td>
<td>150.00</td>
</tr>
<tr>
<td>Fenner Hall</td>
<td>Self-catered</td>
<td>221.42</td>
<td>270.00</td>
<td>1,000.00</td>
<td>200.00</td>
</tr>
<tr>
<td>Toad Hall**</td>
<td>Self-catered</td>
<td>215.62</td>
<td>270.00</td>
<td>1,000.00</td>
<td>140.00</td>
</tr>
<tr>
<td>Davey Lodge***</td>
<td>Apartment style</td>
<td>244.97</td>
<td>270.00</td>
<td>4 weeks rent</td>
<td>100.00</td>
</tr>
<tr>
<td>Kinloch Lodge***</td>
<td>Apartment style</td>
<td>254.90</td>
<td>270.00</td>
<td>4 weeks rent</td>
<td>100.00</td>
</tr>
<tr>
<td>Warrumbul Lodge***</td>
<td>Apartment style</td>
<td>229.42</td>
<td>270.00</td>
<td>4 weeks rent</td>
<td>100.00</td>
</tr>
<tr>
<td>Lena Karmel Lodge***</td>
<td>Apartment style</td>
<td>234.40</td>
<td>270.00</td>
<td>4 weeks rent</td>
<td>100.00</td>
</tr>
</tbody>
</table>

* 21 meals per week.
** Toad Hall specialises in providing accommodation for graduate/mature age students.
*** Additional utilities/data charge of $29 per week included.

Please note:
Some halls, colleges and lodges charge extra for phone, internet connections and other services.

The fees listed in the table are for 2018 and are subject to change. Go to anu.edu.au/study/accommodation for updates on current fees and any other costs involved. All figures in this table are in Australian dollars.

Cost of living

In addition to accommodation costs, you will also have other costs to consider when moving out of home to study at university. It is a good idea to make a list of your expenses, for example: mobile phone and internet, textbooks and stationary, and transport and entertainment. Draw up a budget based on your circumstances to help you work out how much money you will need to live on while you are at university.

Guide to ongoing weekly expenses

Allow about A$400 per week to cover rent, food, transport, electricity, internet, telephone bills and entertainment.
Receiving the National Merit Scholarship made a huge difference to my undergraduate student experience. It enabled me to spend additional time focussing on getting the most out of academic and social aspects of university life, without needing to worry about part time work to support myself.

Michael Horsley
Bachelor of Engineering (R&D) (Honours)
PATHWAYS

ANU offers a wide range of pathways for students that can assist with entry. Visit our website for more details and up to date information on pathways.
anu.edu.au/study/apply.

<table>
<thead>
<tr>
<th>Pathway</th>
<th>Domestic/International</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANU Extension</td>
<td>Domestic</td>
<td>Students who successfully complete Discovering Engineering at ANU Extension will be able to articulate into the Bachelor of Engineering and receive credit towards the degree.</td>
</tr>
<tr>
<td>Bonus Points</td>
<td>Domestic</td>
<td>ANU awards bonus points for high achievement in nationally strategic senior secondary subjects. For full details see the table below.</td>
</tr>
<tr>
<td>Educational Access Scheme</td>
<td>Domestic</td>
<td>If you experienced circumstances outside of your control during year 12 study that impacted on your final result, you may be eligible for Equity bonus points. Apply through the UAC Educational Access Scheme.</td>
</tr>
<tr>
<td>Diploma of Computing</td>
<td>Both</td>
<td>The Diploma of Computing is a year-long program designed for students who are interested in studying a Bachelor of Information Technology at ANU. After successful completion students enter into second year of the Bachelor of Information Technology and gain credit for courses successfully completed.</td>
</tr>
<tr>
<td>Schools Recommendation Scheme</td>
<td>Domestic</td>
<td>The Schools Recommendation Scheme (SRS) offers early entry to school leavers completing an Australian year 12 or International Baccalaureate qualification in Australia. The SRS is also used to gain admission using criteria other than (or in addition to) ATARs. For more information visit: anu.edu.au/study/apply/schools-recommendation-scheme.</td>
</tr>
<tr>
<td>Tertiary Studies</td>
<td>Both</td>
<td>ANU may provide credit transfer for previous Bachelor-level study into one of our programs. This is depending on factors such as grades, content of the courses and level of the university.</td>
</tr>
</tbody>
</table>

ANU academic bonus points allocation under the National Access Scheme — Domestic and UAC International applicants

<table>
<thead>
<tr>
<th>Category</th>
<th>Bonus points</th>
<th>Basis for award of bonus points^</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ACT</td>
</tr>
<tr>
<td>Chemistry</td>
<td>2 points</td>
<td>159</td>
</tr>
<tr>
<td>English (other than ESL) Language Studies (other than English) Indigenous Studies</td>
<td>5 Points</td>
<td>159</td>
</tr>
<tr>
<td>Specialist Mathematics (Major/Minor)*</td>
<td>5 Points</td>
<td>142</td>
</tr>
<tr>
<td>Physics</td>
<td>2 Points</td>
<td>159</td>
</tr>
<tr>
<td>Music AMEB 8th*</td>
<td>5 Points</td>
<td>Success</td>
</tr>
</tbody>
</table>

^ We will automatically award you up to five (5) Academic bonus points if you successfully achieve the score for the subjects listed in the table. Scores listed in the table above reflect the minimum grade required for bonus points to be awarded. This information should be used as a guide only.

The bonus point schedule is correct at the time of publication: March 2017. The schedule is reviewed annually and any updates will be published on anu.edu.au/study/apply/academic-bonus-points.
STUDENT SUPPORT & FEES

Academic Skills and Learning Centre
The Academic Skills and Learning Centre offers ANU students of all levels free and confidential help with their academic work through individual tutorials, workshops, courses and handouts. Students can make an appointment for a free, confidential tutorial with a learning adviser. Students can also attend short courses and workshops that run throughout the semester. academicskills.anu.edu.au

Access and Inclusion
Access and Inclusion includes supports for the following backgrounds:
- alternative and mature age entry
- students with disabilities
- student carers
- student athletes
- LGBTI students
access.inclusion@anu.edu.au

ANU Health Service
The Australian National University Health Service is a fully accredited primary health care facility that provides comprehensive health services to current students and staff of the University.
health.anu.edu.au

SET4ANU
SET4ANU is a fun, free program that assigns a new student to a more experienced student volunteer. The volunteer students, who are called Orientation Leaders, help ease new students into their first few weeks of life at ANU.
anu.edu.au/students/get-involved/communities/set4anu-program

The Counselling Centre
The ANU Counselling Centre provides free, confidential, professional services to students. You can talk to a counsellor about any difficulty or concern that is affecting your studies, or your personal wellbeing.
counselling.anu.edu.au

Study Assist
For domestic students there are a number of ways to get financial assistance while at university. Examples include HECS, CSP, scholarships, grants and bursaries.
anu.edu.au/study/scholarships-fees

ANU Careers Centre
When you finish your degree, knowing what happens next and being able to navigate the transition to the workplace is a skill that helps you to succeed. The ANU Careers Centre offers students many services relating to planning and starting a career, including career target strategies, tools and career development information. Students can book online for a confidential consultation, attend a drop-in session with one of our Consultants or use ANU CareerHub to look for employment.

ANU CareerHub
The CareerHub is an online vacancy and career information system for the exclusive use of ANU students and recent graduates. It provides access to:
- employment vacancies
- work experience and internship opportunities
- online career planning, job search and application resources
- seminars, workshops, employer presentations and careers events.

 Fees
For up-to-date course fees see details on our website.
students.anu.edu.au/fees
HOW TO APPLY

1. Choose your degree

ANU has hundreds of degree options to choose from, and we encourage our students to tailor the best program for their chosen career.

Explore this guide, the ANU website, ANU Programs and Courses or meet with us throughout the year to find out more about programs that are of interest to you.

2. Make sure you meet the requirements

For most of our programs we will consider all academic qualifications when assessing your application. These can include your ATAR, IB, A-levels, tertiary study or equivalent. For details check ANU Programs and Courses on programsandcourses.anu.edu.au.

If you are concerned about getting the result you need for your program of choice, there may be special entry pathways that you can consider. Some of our alternative entry pathways and bonus point information can be found on page 37.

3. Apply

For domestic students, submit your application through the Universities Admission Centre (UAC) at uac.edu.au

UAC applications open early August. You should aim to get your application in by the last Friday in September to avoid additional processing fees. Applications close late January. You can change your preferences before each offer round. Check the UAC website for Change of Preference dates. If you need advice about the order of your preferences, contact us on (02) 6125 5594.

For international students, you can apply either directly to ANU or via one of our agents. Go to anu.edu.au/study/contacts for more details and a list of our agents.

4. Accept your offer & enrol

Once you receive your offer, accept online at www.anu.edu.au/study/accept.

From early December, you will receive enrolment instructions to help you decide on and enrol in your first courses. Allow 24 hours to receive these after you accept your offer.

Important dates for a 2018 start

UAC applications open
TBC

ANU Accommodation applications open
20 August 2017

Application deadline for international students
15 Dec 2017

Guaranteed ANU Accommodation applications close
TBC

Orientation week
12 February 2018

Semester 1 begins
19 February 2018

ANU Accommodation applications open
TBC

Application deadline for international students
TBC

Guaranteed ANU Accommodation applications close
7 June 2018

Orientation week
16 July 2018

Semester 2 begins
23 July 2018
OPEN DAY

ANU Open Day is one of the best ways to discover everything that ANU offers. Bring friends and family with you to explore our campus from 9am-4pm on the last Saturday in August.

At Open Day you can:

> meet students and staff from across our seven academic colleges and talk about the degree programs and courses we offer
> learn about our support services, scholarships and global opportunities
> be inspired through lectures and talks from our world-leading academics
> tour our study, research, recreation and accommodation facilities
> browse the student clubs and societies you can join
> eat, drink and enjoy the all-day entertainment on our green, leafy campus.

For more information go to: anu.edu.au/openday
If you can’t make it to Open Day, ANU campus tours are available throughout most of the year.

ANU campus tours are not ‘out-of-the-box’ group tours. Your guide will be one of our Student Ambassadors, who will create a tour for you based on your interests. They will show you around the campus, including our unique facilities, student residences, sport and recreation centres, all while sharing their first-hand experience of ANU with you.

For more information and to book a tour, go online to: anu.edu.au/campustours
Careers in engineering and computer science are diverse and as an ANU graduate, a wide range of opportunities are available to you.

Graduate salary
Five star maximum ratings for five assessment criteria including graduate starting salary.

$60K
Undergraduate average full-time starting salary.*

Accreditation
All of our undergraduate degrees are professionally accredited by Engineers Australia and Australian Computer Society.

83%
Full-time employed graduates say ‘qualification’ is important in their employment.

Most employable graduates
Ranked first in Australia, and 22nd in the world for Graduate Employability.*

start-ups
The Imagine Team, Reposit Power and Bindle
Many of our graduates receive funding and successfully start their own companies after graduating with us.

Companies that employ our graduates

**Engineering**
- Accenture
- AECOM
- AEMO
- Airservices Australia
- Amazon
- Arup
- Aurecon
- Australian Government
- BHP Billiton
- Boeing
- BP
- Brookfield Multiplex
- Energy Australia
- Ericsson
- Google Inc
- Honeywell
- IBM
- KPMG
- Motorola
- Northrop Consulting
- Origin Energy
- PwC
- Telstra
- Thales Australia
- Toyota Australia
- WSP

**Computer Science**
- Alcatel-Lucent
- Amazon
- Apple Inc.
- BAE Systems
- CEA Technologies Pty Ltd
- Citadel Systems
- Civil Aviation Safety Authority
- Codarra Advanced Systems
- Deloitte
- Dematic
- Dolby
- Fujitsu
- Genentech
- Google Inc.
- Hewlett Packard
- Huawei
- IBM
- Microsoft
- Motorola
- Nova Systems
- Oracle Corporation
- Optiver
- Seeing Machines
- Telstra
- ThoughtWorks
- Visa

* Australian Graduate Survey 2015 + 2016 Times Higher Education World University Rankings
MEET OUR ALUMNI

Rebecca Watts
Analyst, Deloitte Australia
Bachelor of Engineering (Honours)/Bachelor of Commerce 2015
After applying her technical skills in an Engineers Without Borders Design Summit in Cambodia, Rebecca designed her honours thesis on building solar housing systems in remote communities. She then landed a 20-month position as a Project Facilitator and Technical Advisor in Cambodia, and changed the lives of the local community on a daily basis by providing them with lighting and electricity. Rebecca is now based in Sydney and is an Analyst at Deloitte Australia. In 2015 Rebecca was awarded ANU Student of the Year (Undergraduate).

Huy Nguyen
CEO, Enable Development
Bachelor of Engineering (Honours) 2010
Huy is the founder and CEO of Enable Development, a social enterprise working on the challenges of disability, and the founder of EnableCanberra, an online resource which helps people with access requirements plan their visits to Canberra’s national institutions.

Anne-Maree Englund
Medical Technology Expert
Bachelor of Engineering 1996
Throughout her career Anne-Maree has worked as an engineer in the health sector improving outcomes for patients and making clinicians’ lives easier. After graduating she landed a job with Cochlear Limited. Here she worked as a Production Engineer and then in quality management where she travelled and worked across Europe and the USA visiting Cochlear suppliers.

Ben Greenwood
Product Manager, Google, Sydney
Bachelor of Software Engineering/Bachelor of Commerce 2013
At 15 years of age Ben Greenwood had already started not one, but two start-ups in his home country of South Africa. Ben moved from South Africa to equip himself with the knowledge and framework studying an engineering degree at The Australian National University would give him. Ben is currently a Product Manager at Google where he works on Google Maps. He’s based in Sydney and often travels between Tokyo and the US managing new products with Google’s international teams.

Rathesh Richards
Business Analyst, Form Corp, Sydney
Bachelor of Information Technology/Bachelor of Commerce 2013
Since graduating, Rathesh has worked on various projects helping businesses transform their technology platforms as both a systems engineer and user experience designer. He has worked across Australia, Germany, France and China and in London as a Senior Consultant on Application Innovation at IBM. He is now based in Sydney and is a Business Analyst at Form Corp, a start-up concentrated on Digital Transformation.
CONTACT US

ANU College of Engineering & Computer Science

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The Australian National University
Canberra ACT 2601 Australia

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E  international.enquiry@anu.edu.au
W  cecs.anu.edu.au

ANU Social Media

facebook.com/anu.cecs
youtube.com/ANUexperience
twitter.com/anucecs
instagram.com/anu.cecs
i.youku.com/ANUexperience

CRICOS Provider Number 00120C