



Australian
National
University



SCHOOLS ENRICHMENT OUTREACH
2019-2020

CONTENTS

Schools Enrichment Outreach	4	Learn to write your name in Arabic or Persian	14
Workshops	5	Lego Profit Game	14
#PARADISE: understanding the Pacific beyond the pictures	5	Linguistics: cracking the code of language!	14
Angry Birds	5	Lively and energetic science shows with the Science Circus	14
Arab and Islamic Studies: Middle East and Central Asia	5	Masculinity and men's magazines	15
Archaeology: making blades – stone artefact knapping workshop	5	Music: composing music for video games and film	15
Archaeology: practical skills on the dig site	6	Music: composing your own original song – no experience necessary!	15
Art at ANU: tours of the School of Art & Design	6	Music: contemporary improvisation	15
Art History and Art Theory	6	Music: facilities tour	15
Asia and the Pacific: your passport to the region	6	Music: using the recording studio	15
Asia Pacific Day	7	Pain, Pleasure and Popcorn: Persuasion in the Absence of Power	16
Asian language taster classes	7	Philosophy: harming some to save others	16
Biological and Forensic Anthropology: bone lab	7	Physics at ANU: Einstein and relativity	16
Biological Anthropology: primate conservation in disappearing habitats	7	Physics at ANU: optics and photonics	16
Biology at ANU: Practical Classes	8	Physics at ANU: physics walk	17
Biomedical Engineering	8	Physics at ANU: radioactivity, nuclear and particle physics, nuclear medicine	17
Chemistry at ANU: Practical Classes	8	Politics and International Relations at ANU	17
Conflict, International Security and Foreign Policy	8	Rethinking migration: past, present, future	17
Design at ANU: design workshop	9	Robotics	18
Discover Demography at ANU	9	School Visit to Mount Stromlo Observatory (daytime)	18
Discover the Universe with our astronomers and astrophysicists	9	School Visit to Mount Stromlo Observatory (evening)	18
Engineers Without Borders – Floating Houses	10	Science talks and practical experiments	18
Engineers Without Borders – Introduction to Engineering	10	Systems Engineering	19
Engineers Without Borders – Murray-Darling Basin workshop	10	Truthiness, Fake News, and Misinformation: how truth comes from the gut and not books	19
Engineers Without Borders – Prosthetic Leg	11	The Centre for Classical Studies: life in the ancient world	19
Engineers Without Borders – Water for Life	11	Tours of the ANU Classics Museum	19
English Literature	12	Why study a Bachelor of Arts at ANU?	20
Explore the world of Biology	12	Work experience at the Research School of Astronomy and Astrophysics	20
Geometric Topology	12		
History at ANU	13	Bookings	21
Human Centred Computing	13	How to book	21
Introduction to Actuarial Science	13		
Languages: translation	13		



ABOUT ANU

Ranked 1st in Australia and 29 in the world¹

The Australian National University (ANU) really does stand apart from other Australian universities. We are Australia's only national university and we consistently rank among the top universities in the world.

5 star student to staff ratio

This culture of ground-breaking research shapes how our students learn. Our students work closely with researchers who are addressing some of the biggest challenges of our time.

Learn and travel overseas

We encourage our students to broaden their horizons and gain unique experiences by taking their studies overseas. ANU Travel Grants help students to participate in courses not available at ANU but offered at other leading universities around the world, while making new friends, forming networks and immersing themselves in another culture.

Our research-led culture, innovative approach to education and global outlook have helped to make our graduates Australia's most employable and in-demand overseas.

750 possible degree combinations

In a globalised world with a rapidly evolving job market, it is important for students to be able to choose from a range of disciplines and degree structures to suit their interests, strengths and career goals. That is why we pioneered the Flexible Double Degree, which lets ANU students combine two undergraduate degrees together and graduate with two qualifications.

6 Nobel Laureates

Our ranking and reputation largely stem from our focus on research, which is central to everything we do. We have some of the best researchers in the world and we count more Nobel Laureates among our faculty and alumni than any other Australian university. In fact, our Vice-Chancellor, Professor Brian Schmidt helped discover that the expansion of our Universe is accelerating, not decelerating as was previously thought, which earned him the 2011 Nobel Prize for Physics.

SCHOOLS ENRICHMENT OUTREACH

The Australian National University Schools Enrichment Outreach gives students in years 7 to 12 an amazing opportunity to experience what it is like to learn at Australia's national university.

They will see what studying at ANU is all about by participating in workshops delivered by some of our leading researchers, designed to deepen their knowledge and interest in the field.

Workshops cover a range of disciplines across our academic Colleges from Fine Arts to Astrophysics and everything in between.

We look forward to welcoming your students to ANU.



WORKSHOPS

#PARADISE: understanding the Pacific beyond the pictures

The Pacific is a diverse region rich in culture and history, and has long been an important neighbour to Australia. Learn more about this fascinating region, and hear from our regional experts on the important contemporary issues outlined in the lecture topics listed below:

- > Pacific in film and television: what can we learn from Disney's 'Moana and Maui' and Chris Liley's 'Jonah from Tonga'?
- > From sinking to synching: climate change and diplomacy in the Pacific
- > The Pacific 'muscle trade': sports and migration in the region
- > Aid and assistance: Australia's role in the region

College	ANU College of Asia and the Pacific
Areas of interest	Pacific studies, global studies, legal studies, culture, society, international relations, languages, politics and history
Location	On campus
Year group	9 -12
Date	Weekdays during teaching periods, excluding public holidays
Time	40 minutes–1 hour
Numbers	Minimum of 10, maximum of 100
Format	Interactive lecture
Cost	No cost

Angry Birds

This workshop will be held by Professor Jochen Renz and his team who are organising the international Angry Birds Artificial Intelligence Competition (aibirds.org). In this workshop, students will learn how to build an artificially intelligent agent that can play the popular game Angry Birds. By integrating their own game strategies, students can further improve their Angry Birds agent.

Students will gain experience using Snap!, a simple visual programming language that is very easy to learn and to use.

This workshop will also look into the fun side of Artificial Intelligence and how it can successfully interact with the real world while students gain hands-on coding experience. At the end of the workshop, we organise a competition where we determine the best Angry Birds agent.

College	ANU College of Engineering and Computer Science
Areas of interest	Computing, computer science, programming, artificial intelligence and coding
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	2-3 hours
Numbers	Maximum 36 on campus, in-school numbers dependent upon computer access
Format	Interactive workshop
Cost	No cost

Arab and Islamic Studies: Middle East and Central Asia

Delve deep into the history, politics, economy and culture of the Middle East and Central Asia.

This session is offered by the Centre for Arab and Islamic Studies, led by Distinguished Professor Amin Saikal, one of the foremost leading experts on the Middle East, who provides frequent commentary on TV and radio.

College	ANU College of Arts and Social Sciences
Areas of interest	Politics, history, Middle Eastern studies, language, culture
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays
Time	Flexible
Numbers	Maximum of 50
Format	Interactive workshop
Cost	No cost

Archaeology: making blades – stone artefact knapping workshop

Our ancient ancestors made stone blades (sometimes hafted on wooden handles). This allowed them to spear and butcher animals, cut down saplings and many other tasks. As archaeologists we find these stone artefacts scattered across the country, allowing us to revive long buried stories and learn about the people who made them. In this workshop we will show you examples of tools spanning 200,000 years and many continents and teach you how to make stone blades.

College	ANU College of Arts and Social Sciences
Areas of interest	Archaeology
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 20
Format	Brief presentation followed by interactive activity
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

★ In-school activity is only available in ACT and NSW and is dependent upon staff availability

WORKSHOPS

■ Archaeology: practical skills on the dig site

Practice using the tools, methods and skills of our archaeologists and students at the ANU dig site – the same ones that led to the 2015 re-discovery of the Springbank Island homestead.

College	ANU College of Arts and Social Sciences
Areas of interest	Archaeology
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 20
Format	Presentation and interactive activity
Cost	No cost

■ Art at ANU: tours of the School of Art & Design

The ANU School of Art & Design (SOA&D) prepares students for professional careers in visual arts, curatorship or design. It has built a reputation as a leading arts educator offering specialist training across a range of visual arts and crafts disciplines, design, art history and curatorship, and art theory.

Tours of the School of Art & Design can visit all or a selection of the following areas: Animation and Video, Ceramics, Furniture, Glass, Gold & Silversmithing, Painting Photography, Printmedia & Drawing, Sculpture & Textiles and the School's galleries.

College	ANU College of Arts and Social Sciences
Areas of interest	Art, design
Location	On campus
Year group	9-12
Date	Tuesday's to Friday's during teaching periods, excluding public holidays.
Time	30 minutes to 1 hour (flexible). A 30 minute tour would include 4-5 workshops
Numbers	15 preferred. Maximum of 20
Format	Tour
Cost	No cost

■ Art History and Art Theory

Art History introduces students to painting, sculpture, printmaking, photography, architecture, film, digital images and the decorative arts within their historical, social, cultural and political contexts.

Art Theory is primarily designed to meet the needs and interests of visual artists, designers and makers by informing their practice with sustained critical inquiry into the social, cultural, ethical and historical contexts of contemporary art.

College	ANU College of Arts and Social Sciences
Areas of interest	Art history, art theory, curatorship
Location	On campus
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	15 preferred. Maximum of 20
Format	Presentation
Cost	No cost

■ Asia and the Pacific: your passport to the region

Equip your students with the knowledge and skills to become global citizens in the Asia Pacific century. Get involved in our guest lecture series and hear from regional experts on trends and issues facing the region. Whether on campus or in your school, choose from one or more of the lecture topics below:

- > The rise of K-pop and related developments in East Asian popular culture
- > Manga, anime, film and visual arts – the wild and wacky world of Japanese Popular Culture
- > Engaging Asia: Australia in the Asian Century
- > Gender and sexuality in the Pacific
- > Power, resistance and rebellion in Asia
- > Monolingualism is curable! Studying an Asian language
- > Specific language workshop
- > Social Control in China: Friends, Funds, and Fear

College	ANU College of Asia and the Pacific
Areas of interest	Asian and Pacific studies, global studies, history, archaeology and geography, languages (Japanese, Chinese, Korean, Indonesian, Hindi, Thai, Vietnamese, Sanskrit, Mongolian, Tetum, Burmese), culture, gender, society, international relations and politics.
Location	On campus or in-school*
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	40 minutes to 1 hour
Numbers	Minimum of 10, maximum of 100
Format	Interactive lecture
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

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WORKSHOPS

■ Asia Pacific Day

Asia Pacific Day is an annual event for high schools across the ACT. The event is designed to give students the opportunity to come onto campus and experience a day in the life of a university student while increasing their understanding of Asia and the Pacific and Australia's engagement with the region. Students participate in a number of lectures throughout the day which are designed to align their high school curriculum. Taught by leading ANU scholars, Asia Pacific Day aims to link Australia's engagement with the Asia Pacific region with high school tertiary-accredited courses across a range of disciplines, including geography, global studies, history and modern history, economics, international relations and legal studies.

College	ANU College of Asia and Pacific
Areas of interest	Asia Pacific studies, global studies, legal studies, culture, society, international relations, politics and history, gender, society, Asian languages
Location	On campus
Year group	10 – 11
Date	Friday 7 September 2018
Time	10am – 2.30pm
Numbers	120
Format	Interactive lectures and presentations
Cost	No cost

■ Asian language taster classes

ANU offer the broadest range of Asian languages than any other Australian university. Students that come to ANU will be able to progress their language skills or try something new. Our language offerings range from Indonesia, Japanese and Mandarin, to Mongolian, Tibetan, Burmese and Hindi.

These Asian language taster classes are designed for both students and parents. Spanning an hour, each class gives participants a "taste" of an Asian language including basic greeting, introductory vocabulary, and cultural insights into language use.

College	ANU College of Asia and the Pacific
Areas of interest	Asia Pacific studies, global studies, culture, society, Asian languages
Location	On campus or in school*
Year group	9-12 and parents
Date	Weekdays afternoons/ evenings during teaching periods
Time	1 hour
Numbers	Minimum of 10, maximum of 30
Format	Interactive lecture
Cost	No cost

■ Biological and Forensic Anthropology: bone lab

An interactive workshop in which students will handle and identify hominid and primate bones, and learn how to identify certain genetic markers that are recognisable through skeletal remains from our skilled researchers and students.

College	ANU College of Arts and Social Sciences
Areas of interest	Biological anthropology
Location	On campus
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays. Advance notice is required to book labs and prepare specimens.
Time	1 hour
Numbers	Maximum of 15
Format	Workshop
Cost	No cost

■ Biological Anthropology: primate conservation in disappearing habitats

Monkeys and apes are the closest living relatives to humans, yet due to habitat destruction they are disappearing at an alarming rate. This tutorial style workshop will explore some of these endangered species and various conservation strategies being used to save them and their habitats.

College	ANU College of Arts and Social Sciences
Areas of interest	Biological Anthropology
Location	On campus
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 25
Format	Workshop
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
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WORKSHOPS

■ ■ Biology at ANU: Practical Classes

The Research School of Biology at ANU offers an array of practical laboratory classes on campus. These include:

- > Parasite detective
- > Aspects of human inheritance
- > Whodunit?
- > DNA forensics and phenotyping
- > Molecular modelling and bioinformatics
- > Stick insect ecology
- > Bioinformatics, stick insect ecology and lab tour
- > Biology speed-dating (combination of short activities)
- > Exercise physiology.

The level of practical demonstrations varies depending on the age group and our scientists will make every effort to link into the National Curriculum where possible.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, biology, genetics, ecology, immunology and plant science
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	Range from 45 minutes to 3 hours
Numbers	Maximum of 100
Format	Interactive activities and experiments
Cost	No cost

■ ■ Biomedical Engineering

In this workshop students will be introduced to the concept of tissue engineering, in which biomaterials are engineered to mimic healthy body tissues and support regeneration. We will look at the problem of brain repair with a systems engineering approach to demonstrate both how complex such a problem can be, and how we can methodically find new solutions. Split into teams, each focusing on a different aspect of biomaterial design (chemical, biological, physical properties, etc.), students will learn about the requirements within their focus area for a successful biomaterial. All teams will have the same information on a variety of different biomaterial options, and must select the material that best meets the requirements of their focus area. In scrambled groups, students will then brainstorm an innovative solution to satisfy all the requirements, which systems engineering demands. Current research at ANU in biomaterial tissue engineering will be presented to the students, highlighting innovative strategies used to solve such a complex problem as brain repair.

College	ANU College of Engineering and Computer Science
Areas of interest	Engineering, systems engineering and biomedical engineering
Location	On campus or in-school*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 25
Format	Interactive presentation and workshop
Cost	No cost

■ ■ Chemistry at ANU: Practical Classes

The Research School of Chemistry at ANU offers an array of practical laboratory classes on campus. These include:

- > Spectrophotometry—analysis of copper content in brass
- > Making Aspirin and Paracetamol
- > Crystals and Blueprinting
- > Slime and Fluorescein
- > Liquid Nitrogen Ice cream

The level of experiments varies depending on the age group, and our scientists will make every effort to link into the National Curriculum where possible. The visit may include a tour through a research area.

Please note it is required that students wear closed shoes that are non-absorbent.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science and chemistry
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	2-3 hours (flexible)
Numbers	Maximum of 100
Format	Interactive activities and experiments
Cost	No cost

■ ■ Conflict, International Security and Foreign Policy

From instability in the Middle East, to the rising occurrences of computer hacking or global warming and its impact on human populations, there's a whole range of global security challenges which face business, government and international organisations today. Give your students a taste of what it means to be a diplomat, foreign correspondent, humanitarian or strategist! Whether on campus or in your school, choose a lecture on one of the topics listed below:

- > ISIS: death cult or state?
- > Diplomacy: how to negotiate your way out of a hostage situation
- > Strategy: missile defence and nuclear weapons
- > Australia's foreign policy: 21st century challenges and opportunities

College	ANU College of Asia and the Pacific
Areas of interest	Asia Pacific studies, global studies, legal studies, culture, society, international relations, politics and history
Location	On campus or in-school*
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays
Time	40 minutes to 1 hour
Numbers	Minimum of 10, maximum of 100
Format	Interactive lecture
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
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■ ANU College of Health and Medicine

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WORKSHOPS

■ Design at ANU: design workshop

Design at the ANU School of Art and Design produces inventive graduates equipped with the skills and knowledge to succeed in new and emerging fields of design practice. The program's breadth of content presents an exciting mix of hands-on making and innovative digital practices, while its flexible structure allows students to build truly unique educational experiences.

College	ANU College of Arts and Social Sciences
Areas of interest	Design, art, computing, engineering
Location	On campus or in-school*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 3 hours
Numbers	15 preferred. Maximum of 20
Format	Workshop
Cost	No cost

■ Discover Demography at ANU

Demography is fundamental for understanding the world around us – from our society and economy to the environment we live in. Discover this fascinating discipline with leading experts at ANU. Sessions in the School of Demography can cover the following topics:

- > The drivers and consequences of demographic change
- > Our life course and the importance of family, health and society
- > Canberra's past, present and future – is it growing the way we expected?

College	ANU College of Arts and Social Sciences
Areas of interest	Demography, population, migration, fertility, family, mortality and health
Location	On campus
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	Flexible
Numbers	Maximum of 25
Format	Presentation
Cost	No cost

■ Discover the Universe with our astronomers and astrophysicists

Astronomers from Mt Stromlo Observatory are available to provide talks on their current research and the science that is achieved at the Research School of Astronomy and Astrophysics. Topics include:

- > The Big Bang and Cosmology
- > The Solar System and Planets
- > The Earth, Moon and Sun
- > The Universe, Astronomy at ANU
- > Exoplanets, Stars and Galaxies
- > The Milky Way
- > Space Exploration and Travel

Please note that talk times are dependent on the availability of our astronomers.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus, online or in-school*
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays
Time	30 minutes to 1 hour
Numbers	Maximum of 25
Format	Presentations
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
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WORKSHOPS

■ Engineers Without Borders – Floating Houses

Floating Houses covers the nature of engineering (responding to the needs of a society), with a particular focus on civil engineering. Students will learn about the importance of understanding context when implementing an engineering solution, particularly in humanitarian engineering. They will also gain an appreciation of the complex process of material selection, balancing cost, use and longevity through the activity.

The workshop is based on Engineers Without Borders' work in Tonlé Sap, where the annual floods present a major challenge in the design of dwellings. Students are presented with this information and must meet the outlined requirements for longevity and number of people their dwelling can adequately house.

After discussing the challenge and formulating a solution, the students are given a time limit in which to construct the most suitable structure. Their solutions are then tested and compared. The workshop tests their comprehension of physics and balance, as well as their ability to assess the economics of their project by maintaining a tally of the cost of the materials and their use.

College	ANU College of Engineering and Computer Science
Areas of interest	Engineering, civil engineering, materials and humanitarian engineering. Australian National Curriculum: ACSHE194, ACSHE195, ACSHE192, ACSHE230, ACSIS199, ACSIS204, ACSIS205, ACSIS208 ACT Curriculum: ELA 3, ELA 5, ELA 19, ELA 20, ELA 23
Location	On campus or in-school*
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 25
Format	Interactive presentation and hands-on workshop
Cost	No cost

■ Engineers Without Borders – Introduction to Engineering

In this workshop students will discuss their ideas of engineering and engineers – what do they do and what skills do they need? Historical examples are used to highlight the breadth and creativity of technology and engineering, which leads into a discussion of contemporary and cutting-edge engineering research and development. Students will be split into teams and complete a design-and-build activity to investigate how engineering is undertaken. Pathways to engineering and a snapshot of the profession are then provided.

College	ANU College of Engineering and Computer Science
Areas of interest	Engineering, humanitarian engineering, foreign aid and developing communities. Australian National Curriculum: ACSHE194, ACSHE195, ACSHE192, ACSHE230, ACSIS199, ACSIS204, ACSIS205, ACSIS208 ACT Curriculum: ELA 3, ELA 5, ELA 19, ELA 20, ELA 23
Location	On campus or in-school*
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 25
Format	Interactive presentation and hands-on workshop
Cost	No cost

■ Engineers Without Borders – Murray-Darling Basin workshop

The Murray-Darling Basin workshop focuses on concepts related to equitable utilisation of natural water sources and the possible consequences of this provision of water. It aims to educate students about sustainable water use in Australia and multilateral cooperation between governments towards this goal. The workshop also provides insights into the Indigenous peoples' perspective of the significance of the river system. The workshop includes a brief overview of engineering and areas in which engineering can be applied as well as an activity where groups of students interact with the river system, which is represented by a basket of ping pong balls. They get an opportunity to see the consequences of their interaction and discuss engineering solutions to those consequences.

College	ANU College of Engineering and Computer Science
Areas of interest	Engineering, humanitarian engineering, sustainability and Australian water systems. Australian National Curriculum: ACSHE194, ACSHE195, ACSHE192, ACSHE230, ACSIS199, ACSIS204, ACSIS205, ACSIS208 ACT Curriculum: ELA 3, ELA 5, ELA 19, ELA 20, ELA 23
Location	On campus or in-school*
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 25
Format	Interactive presentation and workshop
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
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WORKSHOPS

■ Engineers Without Borders – Prosthetic Leg

The Prosthetic Leg workshop introduces the needs of those who have lost a limb, particularly in developing communities, and the role of the biomedical engineer in meeting these needs. Students will gain an understanding of the difficulty in obtaining appropriate medical care in developing communities and how organisations like EWB are working to change this. After learning about the structure of the lower leg and the consequences of losing the limb, students are presented with the task of building their own prosthetic leg from the knee down. They will need to take into account the information they have been presented with, as well as the materials available to them. Students are encouraged to use the resources sparingly, imitating its availability in developing communities and highlighting the importance of sustainability. Teams will then demonstrate their design to the rest of the class, as well as explaining why they chose the final design. The program ends with a reflection on the design process.

College	ANU College of Engineering and Computer Science
Areas of interest	Engineering, biomedical engineering, biology and medicine. Australian National Curriculum: ACSHE194, ACSHE195, ACSHE192, ACSHE230, ACSIS199, ACSIS204, ACSIS205, ACSIS208 ACT Curriculum: ELA 3, ELA 5, ELA 19, ELA 20, ELA 23
Location	On campus or in-school*
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 25
Format	Interactive presentation and hands-on workshop
Cost	No cost

■ Engineers Without Borders – Water for Life

Water for Life introduces the concept of global water accessibility and how people across the globe have different levels of access to clean water for consumption and sanitation. Students are then asked to construct a water filter using materials accessible and affordable to developing communities.

The presentation covers what engineers are, the definitions of science and technology, and the role these play in meeting the needs of both developing and developed communities. There is a focus on the 'three A's' of obtaining materials: accessibility, availability and affordability.

The main component of the workshop is the activity in which students construct their own water filter. Each group is given a country profile with instructions and a budget for the filter. Different groups will face different obstacles depending on the literacy rate and income of their country, which will influence their final design.

College	ANU College of Engineering and Computer Science
Areas of interest	Engineering, humanitarian engineering, foreign aid and developing communities. Australian National Curriculum: ACSHE194, ACSHE195, ACSHE192, ACSHE230, ACSIS199, ACSIS204, ACSIS205, ACSIS208 ACT Curriculum: ELA 3, ELA 5, ELA 19, ELA 20, ELA 23
Location	On campus or in-school*
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum of 25
Format	Interactive presentation and hands-on workshop
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

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WORKSHOPS

English Literature

Can studying English give you the extra edge in life? Make up your own mind when you experience a foretaste of university level literary studies by choosing a session on one of the texts studied at school. The below sessions are available:

- > Austen: past and present
- > Reading Ned Kelly
- > Shakespeare and the globe - reading Shakespeare with theatrical imagination.

College	ANU College of Arts and Social Sciences
Areas of interest	English literature
Location	On campus or in school*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	30 minutes to 1 hour (flexible)
Numbers	Minimum 25 for in-school, any number on campus
Format	Interactive lecture
Cost	No cost

Explore the world of Biology

Our world-leading biologists from the Research School of Biology will talk about their current research. These topics include:

- > From Single Cell to Human Body with Assoc. Prof. Maja Adamska
- > Spiders, Evolution or Things that Live in Rotting Logs with Prof. David Rowell
- > Parasites – What’s Eating You? with Assoc. Prof. Alex Maier
- > Alpine Ecology in a Changing Climate with Prof. Adrienne Nicotra
- > Photosynthesis, the most important biological process on Earth; with Prof. John Evans
- > Biological Nitrogen Fixation – from Genes to Environment with Prof. Uli Mathesius.
- > How many species are there on earth? with Assoc. Prof. Marcel Cardillo (interactive talk)
- > Evolution and Medicine with Prof. Allen Rodrigo
- > Talking a Cellfie – plant signals to update its status with PhD student Estee Tee
- > The Drugs Don’t Work with Assoc. Prof. Richard Callaghan
- > Tropical Forest Ecosystems with Prof. Patrick Meir.

The level of presentation varies depending on the age group, and our scientists will make every effort to link into the National Curriculum where possible. Schools who wish to visit campus can include a tour through our research areas.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, biology, genetics, ecology, immunology and plant science
Location	On campus or in-school*
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month’s notice is required.
Time	1 hour (flexible)
Numbers	100
Format	Interactive presentation
Cost	No cost

Geometric Topology

Dr Joan Licata explains geometric topology, which is a branch of math which allows objects to stretch and bend, but not be cut or glued. For example, you can deform a “D” to look like an “O”, so topologists treat them as the same object, but you can’t turn either of these into an “8” without using glue. Joan works with knots, which she can model as loops of string that move around inside three-dimensional spaces. She uses numbers, polynomials, and other algebraic objects to decide which knots are the “same” and which are different. This topic has applications in other branches of mathematics, in studying DNA, and in physics: one theory describes the shape of the universe using knots! Joan can talk to your students about a range of mathematical topics to suit your class.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, mathematics, physics
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month’s notice is required.
Time	60 minutes (flexible)
Numbers	Maximum of 100
Format	Interactive presentation
Cost	No cost
Format	Interactive presentation
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

★ In-school activity is only available in ACT and NSW and is dependent upon staff availability

WORKSHOPS

History at ANU

ANU is ranked first in Australia and 12th in the world for history (QS World University Rankings by Subject 2019). Areas of interest in at the ANU School of History include Australia, the United States and Europe. Sessions in the School of History can cover the following topics:

- > The Hidden History of Canberra – Nicholas Brown
- > The Eighties – the decade that changed Australia – Frank Bongiorno

As Manning Clark, who founded History at ANU, would say, “come and join the great conversation”.

College	ANU College of Arts and Social Sciences
Areas of interest	History
Location	On campus
Year group	9-12
Date	Mondays or Fridays during teaching periods
Time	Flexible
Numbers	Maximum of 25
Format	Presentations
Cost	No cost

Human Centred Computing

The HCC Workshop is a collection of hands-on activities that demonstrate the research that the Human-Centred Computing Research group carries out at ANU. Human-Centred Computing uses the latest technology to explore computer-human interactions to make computers ‘think ahead’, and be responsive in their interactions with humans. We want computers to understand what users’ want when they perform specific tasks, and to enhance their user experience.

In the HCC Workshop, students will be able to play with some of the latest technology that we use in our research, such as having their eye gaze tracked. Students will have the opportunity to play games and have fun learning about leading research in an exciting blend of different fields such as computing, art, science, music, security, psychology, social network analysis, digital humanities and biologically inspired computing.

College	ANU College of Engineering and Computer Science
Areas of interest	Computing, psychology, technology
Location	On campus or in-school*
Year group	10-12
Date	Weekdays during teaching periods excluding public holidays.
Time	1 to 1.5 hours
Numbers	Maximum of 25 per workshop
Format	Interactive activities
Cost	No cost

Introduction to Actuarial Science

You may have heard of actuarial science, or you might even know an actuary, but do you know what an actuary does? The actuarial profession is a very attractive option for students with a strong mathematical background, being both well remunerated and having an abundance of career path options. During this online course, created by Associate Professor Adam Butt, you’ll learn how actuaries use mathematical, statistical, economic and business knowledge to understand, quantify and manage financial risks. You’ll experience ‘hands-on’ learning using Excel (or an equivalent spreadsheet tool) to project and investigate the financial condition of a company, choosing appropriate strategies for the company through the use of simulations. You’ll also hear from a wide variety of actuaries about their careers.

College	ANU College of Business and Economics
Areas of interest	Actuarial studies
Location	Online
Year group	11-12
Date	Flexible
Time	The course consists of 7 lessons of around 2 hours each which can be completed at any time
Numbers	Any number
Format	Online course
Cost	No cost

Languages: translation

Translators are highly sought after language professionals, who, as well as having excellent linguistic abilities also have highly-developed analytical and written communication skills. This session introduces students to the linguistic process of translation – what are the issues faced by translators? What makes a good translation and why? How is translation even possible, if each language is intrinsically tied to the culture of its speakers?

College	ANU College of Arts and Social Sciences
Areas of interest	Language study, translation
Location	On campus or in-school*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 30
Format	Presentation and interactive activity
Cost	No cost

Key:  ANU College of Arts and Social Sciences
 ANU College of Science

 ANU College of Asia and the Pacific
 ANU College of Health and Medicine

 ANU College of Business and Economics
 ANU College of Engineering and Computer Science

★ In-school activity is only available in ACT and NSW and is dependent upon staff availability

WORKSHOPS

■ Learn to write your name in Arabic or Persian

Arabic is the mother language of over 250 million people in the Middle East (West Asia and North Africa), and one of the six official languages of the United Nations. It was the language of an ancient civilisation which contributed greatly to human knowledge. Arabic is also the living medium of a contemporary dynamic literature and culture. Its rich and magnificent poetry, classical and modern, is especially captivating.

Persian (otherwise known as Farsi) is spoken today primarily in Iran, Afghanistan and Tajikistan, was once widely understood from the Mediterranean to India, and has a rich historical and cultural legacy. In this interactive calligraphy workshop, students will learn to write their name in Persian or Arabic.

College	ANU College of Arts and Social Sciences
Areas of interest	Arabic and Persian
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	30 minutes to 1 hour
Numbers	Maximum of 20
Format	Interactive workshop
Cost	No cost

■ Lego Profit Game

Take part in a game that uses basic cost accounting concepts to demonstrate the decision processes behind the choice between products for the maximisation of profit. Using lego blocks as raw materials, students work in teams to achieve the highest profit per team member to win the title of Lego Profit Champions.

Students learn to apply basic cost accounting concepts, learn about planning and budgeting processes that take place before production providing an insight into the nuances behind production planning, allocation of scarce resources and pricing strategies.

College	ANU College of Business and Economics
Areas of interest	Accounting
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 50
Format	Interactive workshop
Cost	No cost

■ Linguistics: cracking the code of language!

Why is it that the only code not broken during World War II was a real language? How close are we to having computers who can talk to us the way that HAL does in Stanley Kubrick's 2001: A Space Odyssey? We discuss these sorts of questions and more about natural and artificial languages and introduce you to problem solving strategies for cracking a variety of language codes. You then get to apply these strategies to the sorts of problems high school students get each year as part of the Australian Computation and Linguistics Olympiad (OzClo) and the International Linguistics Olympiad (ILO). No previous language or linguistic experience necessary!

College	ANU College of Arts and Social Sciences
Areas of interest	Problem-solving using both natural and artificial languages
Location	On campus or in-school*
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours (flexible)
Numbers	Any number
Format	Brief presentation followed by interactive activity
Cost	No cost

■ Lively and energetic science shows with the Science Circus

The Shell Questacon Science Circus visits local schools to present lively and energetic science shows using everyday materials and props. Adapted to the age of the students, the shows cover a wide range of topics from states of matter and pressure to bubbles and balance to collisions and chemistry and so much more. Students who participate in the program at school receive a free ticket to attend the Science Circus hands-on exhibition – a portable science centre with over 50 interactive exhibits held in a central public venue such as a town hall. The Science Circus also run professional development workshops for science teachers. The Science Circus presenters are ANU Master of Science Communication Outreach students, based at the Australian National Centre for the Public Awareness of Science (CPAS).

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, chemistry and biology
Location	In-school*
Year group	7-12
Date	Depending on touring schedule
Time	1 hour shows (up to 4 shows per day)
Numbers	Maximum of 150
Format	Interactive presentation
Cost	\$5 per visitor
Bookings	Bookings are taken about six months in advance at questacon.edu.au/outreach/programs/science-circus/schools-and-teachers/bookings

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

★ In-school activity is only available in ACT and NSW and is dependent upon staff availability

WORKSHOPS

■ Masculinity and men's magazines

Ideals of masculinity have undergone quite dramatic changes over the past couple of decades, with researchers developing new concepts to understand the different ways of being a man in the 21st century. This workshop begins with a brief presentation on masculinity studies, followed by an interactive activity focused on analysing men's lifestyle magazines such as *Men's Health* and *Smith Journal*.

College	ANU College of Arts and Social Sciences
Areas of interest	Sociology and gender
Location	On campus
Year group	11-12
Date	Fridays during teaching periods excluding public holidays
Time	1.5 hours
Numbers	Maximum of 20
Format	Brief presentation followed by interactive activity
Cost	No cost

■ Music: composing music for video games and film

Have you dreamed about being a songwriter, producer or audio engineer? Ever wanted to mix and play with sounds and music? We will introduce you to Logic Pro X, an industry standard piece of software, allowing you to compose, record, edit, and mix high-quality music or sound. No previous musical experience necessary!

College	ANU College of Arts and Social Sciences
Areas of interest	Audio Production and Music Composition
Location	On campus or in-school if students bring mac laptops*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 20
Format	Presentation
Cost	No cost

■ Music: composing your own original song – no experience necessary!

Have you dreamed about being a songwriter, producer or audio engineer? Ever wanted to mix and play with sounds and music? We will introduce you to Logic Pro X, an industry standard piece of software, allowing you to compose, record, edit, and mix high-quality music or sound. No previous musical experience necessary!

College	ANU College of Arts and Social Sciences
Areas of interest	Audio Production and Music Composition
Location	On campus or in school if students bring mac laptops*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 20
Format	Presentation
Cost	No cost

■ Music: contemporary improvisation

Humans improvise every day and music students have nothing to fear when it comes to learning how to improvise. Learn how to improvise using the tools that you already know! Open to all instruments including vocals.

College	ANU College of Arts and Social Sciences
Areas of interest	Music Contemporary Improvisation
Location	On campus
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour (flexible)
Numbers	Flexible
Format	Presentation
Cost	No cost

■ Music: facilities tour

Tour the School of Music facilities with our teaching staff to see the many performance spaces and how technology plays an important role in the constantly evolving delivery of tertiary music education.

College	ANU College of Arts and Social Sciences
Areas of interest	Music
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 20
Format	Tour
Cost	No cost

■ Music: using the recording studio

Have you dreamed about being a songwriter, producer or audio engineer? Ever wanted to sit in front of a giant mixing console and record music? Come play and learn in our multi-million dollar recording studio. No previous musical experience necessary!

College	ANU College of Arts and Social Sciences
Areas of interest	Audio Production and Music Composition
Location	On campus or in-school if students bring mac laptops*
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 hour
Numbers	Maximum of 20
Format	Presentation
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
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WORKSHOPS

■ ■ Pain, Pleasure and Popcorn: Persuasion in the Absence of Power

Why and how are people influenced by others? Is it blind obedience or thoughtful consideration? Are we “just going along with the crowd” or do we really believe it? These are some of the types of questions that we’ll see to answer in this presentation. Professor Michael Platow will review some exciting social-psychological research on social influence, outlining why and how we are influenced by others.

Michael Platow is a professor of psychology at the Australian National University. In addition to his Ph.D. in psychology, he holds a Masters of Higher Education and has published widely on the social-psychology of leadership and social influence; justice, fairness, and trust; intergroup relations, including prejudice and discrimination; and education. Professor Platow’s research has been recognized by his election as a Fellow of the Academy of Social Sciences in Australia.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, psychology, leadership, social influence
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month’s notice is required.
Time	60 minutes (flexible)
Numbers	30 (flexible)
Format	Interactive presentation
Cost	No cost

■ Philosophy: harming some to save others

Our lives are sometimes harmonious; everyone can live freely and well without impinging on anyone else. But sometimes we face tragic conflicts, and the security of some can be bought only at the cost of others. Moral theory can help tell us when it is permissible to harm some in order to save others; but questions of permissible harm can also tell us much about the nature of moral theory. In this session, students will discuss central topics in the ethics of war and killing with Head of School, Assoc. Prof. Seth Lazar.

College	ANU College of Arts and Social Sciences
Areas of interest	Philosophy
Location	On campus
Year group	11-12
Date	Weekdays during teaching periods, excluding public holidays
Time	Flexible
Numbers	Flexible
Format	Interactive
Cost	No cost

■ ■ Physics at ANU: Einstein and relativity

This program involves the use of simulations using Real Time Relativity to model and observe the effects of travelling at speeds close to that of light. The session also features the use of a Michelson Interferometer, observation of the Doppler Effect using sound, and a visit to the Gravitational Wave Research. There may also be an opportunity for our scientists to link into the National Curriculum.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month’s notice is required.
Time	40 minutes to 2 hours (flexible)
Numbers	Maximum of 25
Format	Interactive activities and experiments
Cost	No cost

■ ■ Physics at ANU: optics and photonics

The optics and photonics program involves a number of experimental activities including:

- > Michelson Interferometer
- > Diffraction
- > Image processing
- > Spectra
- > Optical fibres
- > Medical use of Gamma Radiation
- > Bell Photo-phone
- > Solar cells.

The level of experiments varies depending on the age group. There may also be an opportunity for our scientists to link into the National Curriculum. It’s important that students and teachers enjoy the activities and that’s why we link them all into the outside world where the physics is used. The visit may include a tour through a research area and several demonstrations of physics in action.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus
Year group	8-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month’s notice is required.
Time	40 minutes to 2 hours (flexible)
Numbers	Maximum of 25
Format	Interactive activities and experiments
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

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WORKSHOPS

■ ■ Physics at ANU: physics walk

This is an opportunity to get out of the laboratory and study the impact of physics on our everyday lives. The experience starts in the main physics building and includes large-scale research laboratories, the Big Dish, mobile phone towers, electricity sub-station, solar hot water installations, solar cells, roof top solar devices, TV and radio transmitters, optical fibre networks, air conditioners, traffic lights and street lighting, birds and any other seasonal phenomena. There may also be an opportunity for our scientists to link into the National Curriculum.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	40 minutes (flexible)
Numbers	Maximum of 25
Format	Interactive activities and experiments
Cost	No cost

■ ■ Physics at ANU: radioactivity, nuclear and particle physics, nuclear medicine

The electrostatic accelerator at ANU is ten storeys high, operates at up to 15 million volts, and is used to initiate nuclear reactions, make exotic radio-isotopes and study fundamental aspects of the strong and weak nuclear forces. As well as a tour of this national and international facility, visitors can learn about the science behind nuclear power, medical physics and how isotopes are made and can be safely used. Hands-on experiments are possible, including measuring radiation levels, identifying isotopes and observing different types of nuclear decay and measuring radioactive half-lives. There may also be an opportunity for our scientists to link into the National Curriculum.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	40 minutes to 2 hours (flexible)
Numbers	Maximum of 25
Format	Interactive activities and experiments
Cost	No cost

■ Politics and International Relations at ANU

Politics and International Relations at ANU is ranked number one in Australia and 10th in the world (QS World University Rankings by Subject 2019). Hear from key experts in the field of Politics and International Relations about a topic of global concern. Classes can be delivered on a case-by-case basis and tailored for the needs of the group.

College	ANU College of Arts and Social Sciences
Areas of interest	Politics and international relations
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	Flexible
Numbers	Maximum of 20
Format	Masterclass
Cost	No cost

■ Rethinking migration: past, present, future

Migration and refugees dominate our news and politics but how are they understood by researchers? This multi-disciplinary workshop explores how human mobility has been analysed by different academic disciplines – from politics, law, history, economics, sociology, demography, geography, anthropology and cultural studies. How is migration changing and what impact will it have on the future? Make up your own mind as we examine a range of global case-studies and the main research approaches used in social sciences.

College	ANU College of Arts and Social Sciences
Areas of interest	Global studies, social sciences
Location	On campus or in-school*
Year group	11-12
Date	Thursdays and Fridays during teaching period
Time	1 hour
Numbers	Minimum 30
Format	Workshop
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
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■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

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WORKSHOPS

■ Robotics

This workshop is run by the ANU chapter of Robogals – a student-run organisation that aims to increase student participation in engineering, science and technology through fun and educational initiatives.

Students in the workshop will be introduced to Lego Mindstorms robots and their components before commencing a programming tutorial. The tutorial will touch on programming language and problem-solving. Students will work in groups of two or three to program their robot to successfully complete given challenges such as obstacle courses. Other challenges are available if time permits. Engineering and computing disciplines are also discussed as Robogals volunteers present various projects from their study at ANU.

College	ANU College of Engineering and Computer Science
Areas of interest	Robotics, coding, engineering and computing
Location	On campus or in-school*
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays
Time	1 to 1.5 hours
Numbers	Maximum 20 per workshop (multiple workshops run simultaneously can be organised)
Format	Interactive presentation and hands on workshop
Cost	No cost

■ ■ School Visit to Mount Stromlo Observatory (daytime)

A typical daytime tour takes students around the site showing them both the research buildings and telescope domes while explaining the science that has been done at Mt Stromlo over the past 100 years. On the tour, we also talk about the current science projects being undertaken and our future plans. The tour includes viewing the labs where instruments for the Giant Magellan Telescope are being built and our Laser Space Debris Telescope, a 250kg meteorite and Professor Brian Schmidt's Nobel Prize and more. Students will also have the opportunity to ask questions.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus (Mt Stromlo)
Year group	7-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	1 hour
Numbers	Maximum of 40
Format	Interactive tour
Cost	\$10 per visitor

■ ■ School Visit to Mount Stromlo Observatory (evening)

Mt Stromlo Observatory offers evening school/educational group visits. A typical evening visit starts with a welcome by professional astronomers, followed by a 3D astronomy movie viewing. The movie is both fun and educational and lasts about 15 minutes. The group then moves outside for the main part of the evening, a stargazing session using Mt Stromlo's outreach telescopes.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus (Mt Stromlo)
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required. Please note that this session is very popular and it is advisable to book early.
Time	2 hours (evening – to begin when the sun sets)
Numbers	Maximum of 40
Format	Interactive tour
Cost	\$10 per visitor

■ ■ Science talks and practical experiments

The ANU College of Science cover a broad range of scientific areas including astronomy, biology, chemistry, earth and marine sciences, environmental sciences, mathematics, health, psychology, physics, and science communication.

Our world-leading research is headed up by some of Australia's, and the world's, greatest scientists and they are available to inspire your students through a range of practical and informative workshops and presentations.

A number of topics which include but are not limited to:

- > Chemistry of Medicines
- > Chemistry of Natural Systems
- > Earth Climate Science
- > Knots and Shapes in Mathematics
- > Planetary Geochemistry
- > Physics with Prof. John Close
- > Mathematics of Fractal Geometry

The level of presentation or activity varies depending on the age of the group, and our scientists will make every effort to link into the National Curriculum where possible.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, biology and chemistry
Location	On campus or in-school*
Year group	8-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	1 hour (flexible)
Numbers	25-100 (depending on topic)
Format	Interactive presentation
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

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WORKSHOPS

■ Systems Engineering

Systems engineering is a useful way to break a complex problem down into manageable pieces. Testing is an important approach to gather evidence to make good decisions. In this activity, your group will design and implement engineering tests on a robot waiter for your restaurant-owner clients. You will test the wheel and controller subsystems separately against a series of requirements, and then test your final design on an obstacle course.

College	ANU College of Engineering and Computer Science
Areas of interest	Robotics, engineering, systems engineering, problem solving, teamwork
Location	On campus or in-school*
Year group	10-12
Date	Weekdays during teaching periods excluding public holidays.
Time	1 to 1.5 hours
Numbers	Maximum of 25 per workshop
Format	Interactive presentation and hands-on workshop
Cost	No cost

■ ■ Truthiness, Fake News, and Misinformation: how truth comes from the gut and not books

How do people decide whether something is true? How do we know whether we are remembering something correctly? As it turns out, most of the time when we believe something or remember something, we are going with a gut feeling. Dr. Eryn Newman will talk about how people come to believe and remember things are true and how our brains can trick us in to believing things that are wrong and sometimes remembering things that never actually happened. Dr. Newman will also talk about how we can protect ourselves from fake news and misinformation and whether we should trust an eyewitness.

Dr. Newman's research and training are in memory and cognition. She earned her PhD at Victoria University of Wellington, in New Zealand and spent four years at the University of California, Irvine as a Fulbright Scholar and then Postdoc. During this time Dr. Newman studied human memory and forensic science communication/jury decision-making. From 2015-2017 she trained as a Research Associate/Postdoc at the University of Southern California, studying social-cognitive perspectives on assessments of truth and memory. In early 2018 Dr. Newman joined the ANU as a Lecturer in the Research School of Psychology.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, psychology, memory, forensic science
Location	On campus
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	60 minutes (flexible)
Numbers	20-30
Format	Interactive presentation
Cost	No cost

■ The Centre for Classical Studies: life in the ancient world

The Centre for Classical Studies offers students a chance to explore the ancient worlds of Greece and Rome from a variety of perspectives. Classics is the original interdisciplinary discipline. We use textual, historical, archaeological and theoretical tools to discover how people lived, what they thought about, and what they left behind. Antiquity continues to hold a fascination for us today. Staff are available to give talks on the ANU campus or in schools on the following broad themes:

- > Classical epic and tragedy
- > Greek and Roman history
- > Greek myth and storytelling
- > Introduction to ancient Greek and Latin
- > The objects of everyday life in Greece and Rome

These talks can be tailored to suit the interests of the class or to fit with your curriculum. In addition, we offer guided tours of our extensive museum collection.

College	ANU College of Arts and Social Sciences
Areas of interest	Ancient History, Classics, Greek, Latin
Location	On campus or in-school*
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	30 minutes to 1 hour (flexible)
Numbers	Flexible
Format	Presentations, interactive classes, museum tours
Cost	No cost

■ Tours of the ANU Classics Museum

Visitors to the Classics Museum at ANU gain a taste of everyday life in the ancient world. The collection spans the Mediterranean and beyond. It features examples of ancient art and objects of daily life from Greece and the Roman world, including Egypt and the Near East.

College	ANU College of Arts and Social Sciences
Areas of interest	History, ancient languages and art
Location	On campus
Year group	9-12
Date	Second Friday of each month during teaching periods
Time	30 minutes to 1 hour
Numbers	Maximum of 15
Format	Tour
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
■ ANU College of Science

■ ANU College of Asia and the Pacific
■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

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WORKSHOPS

■ Why study a Bachelor of Arts at ANU?

Explore almost 50 majors and 80 minors in our ANU Bachelor of Arts (BA) degree. The BA is one of the most flexible degrees, with varied subjects to choose from, ranging from History to Criminology, or a language – a veritable smorgasbord of options to complement varied interests. Every one of our students is studying their own unique program. Find out why this is one of the most popular degrees at ANU.

College	ANU College of Arts and Social Sciences
Areas of interest	Arts and Social Sciences
Location	On campus
Year group	9-12
Date	Weekdays during teaching periods, excluding public holidays
Time	Flexible
Numbers	Maximum of 25
Format	Presentation
Cost	No cost

■ ■ Work experience at the Research School of Astronomy and Astrophysics

The Mount Stromlo Observatory offers a limited number of work experience places to year 10, 11 and 12 students each year. These placements are typically one week in duration and students work on an astronomical project under the supervision of professional astronomers. Aside from working on their project, work experience students also learn computing skills, attend departmental talks and find out further information about University courses that are available to them and the potential career paths they may embark on.

College	ANU College of Science ANU College of Health and Medicine
Areas of interest	Science, physics, astronomy, astrophysics and engineering
Location	On campus (Mt Stromlo)
Year group	10-12
Date	Weekdays during teaching periods, excluding public holidays. At least one month's notice is required.
Time	1 week from 9am to 5pm
Numbers	12 per year
Format	Work Experience
Cost	No cost

Key: ■ ANU College of Arts and Social Sciences
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■ ANU College of Health and Medicine

■ ANU College of Business and Economics
■ ANU College of Engineering and Computer Science

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BOOKINGS

Most of our workshops are only available during ANU teaching periods and some require advance planning of several weeks.

Teaching periods are:

2019

22 July–25 October (Semester 2)

2020

24 February–29 May (Semester 1)

27 July–30 October (Semester 2)

How to book

1

Browse and make a note of the School Enrichment Outreach that you wish to book or enquire about.

2

Click [here](#) to make your bookings/enquiries – this will require:

- > the number of students participating
- > their year group
- > the dates/times that could work

3

Once you have submitted your booking we will be in touch within three business days.

In-school activity is only available in ACT and NSW and is dependent upon staff availability.

CONTACT US

The Australian National University

T Future Students Enquiry 1800 620 032

W Booking form [click here](#)

W anu.edu.au

CRICOS Provider #00120C