

**BACHELOR OF
SCIENCE ADVANCED**

—
GLOBAL CHALLENGES
(HONOURS)

study.monash





SCIENCE HOLDS THE KEY TO ANSWERING SOME OF THE MOST COMPLEX QUESTIONS THE GLOBAL COMMUNITY FACES IN THE TWENTY-FIRST CENTURY.

The greatest challenges of our time – from managing natural resources and feeding the world to adapting to climate change – are heavily dependent on science and innovation-based solutions.

To create real change, we need more than just brilliant scientific minds. We need leaders, deep thinkers, adventurers, inspirers, innovators and entrepreneurs. We need a new generation of science graduates equipped with a broad set of skills and experiences, who want to push the boundaries of possibility and status quo.

That's why we created the Bachelor of Science Advanced – Global Challenges (Honours) – the only course of its kind in Australia. Graduates of this course will have all the opportunities available to a science honours graduate, plus many more.

You'll be perfectly placed to pursue employment across all sectors from research and business to government, and industry. You will be equipped with the skills to use science to address complex global challenges and convert ideas into tangible solutions.

“**Be a global citizen.
Act with passion and compassion.**

Help us make this world safer and more sustainable today and for the generations that will follow us. That is our moral responsibility.”

FORMER UN SECRETARY-GENERAL BAN-KI MOON

What makes this course different?

Collaborate and learn with today's change-makers

This course provides unprecedented access to leaders who are changing the world through policy, entrepreneurship and social innovation. You will gain a strong understanding of how to inspire others to navigate complex challenges by learning directly from people who lead across sectors.

Entrepreneurship and real-world problem solving

Each year, our carefully selected cohort of 30-40 students train in cross-cultural competency, leadership, (science) communication and entrepreneurship. For example, there is an opportunity to develop a social enterprise and to undertake overseas exchange. The summit of your experiences is your honours year. Students are partnered with peers and an external organisation to tackle an issue of global significance from the front lines.

Supervised by successful, respected and globally recognised external partners, you will work in small teams to develop innovative solutions to approach issues from scientific, policy, social and business perspectives. As a result of this year, many of our graduates are offered full time employment before their studies have even finished, a testament to the market-relevant and in demand skills that students are provided within the Global Challenges degree.

Internships in Australia and internationally

During your course you will immerse yourself in an internship, with the choice of undertaking one internationally or domestically to gain valuable insights into working with businesses, research organisations, governmental bodies and more, the choice is yours!

Combine science with communication

Through interactive and intensive training, you will learn how to become a confident, effective communicator across a range of contexts. You will also learn how to effectively pitch your ideas to communicate your message.

A world-class science education

Students in this course enjoy the flexibility and breadth of subjects available in Monash Science, with the addition of the "Impact Through Science" units unique to the Global Challenges degree, and a series of 'free' electives which can also be taken in other disciplines. The diverse subject choices, quality of teaching and research and amazing facilities on offer, set Monash Science apart for students looking for an inspiring and immersive science educational experience.

“

If I had to describe the course in five words, they would be: **provocative groundbreaking, unconventional, interesting, — and I know it's a simple word, but — fun!**”

JAKE PORT

Bachelor of Science - Advanced – Global Challenges (Honours) alumnus 2017

COURSE MAP

| Semester | Units | | | |
|------------------|--------------------------------|-----------------|--------------------------|----------------------------|
| YEAR 1 | | | | |
| Semester 1 | Science studies | Science studies | Mathematics / Statistics | Impact through science I |
| Semester 2 | Science studies | Science studies | Selective | Impact through Science I |
| YEAR 2 * | | | | |
| Semester 1 | Science studies | Science studies | Selective | Impact through Science II |
| Semester 2 | Science studies | Science studies | Elective | Impact through Science II |
| YEAR 3 * | | | | |
| Semester 1 | Science studies | Science studies | Elective | Impact through science III |
| Semester 2 | Science studies | Science studies | Elective | Impact through Science III |
| YEAR 4 (HONOURS) | | | | |
| | Impact through science project | | | |

* International internship (Can be completed in year 2 or Year 3)

ENTRY REQUIREMENTS

Monash Bachelor of Science Advanced – Global Challengers (Honours) course has additional entry requirements, including:

- Submission of a written statement
- Interview (in person, for shortlisted applicants)

IMPORTANT LINKS

What students in this course study:

monash.edu/global-challenges

Full course entry requirements and application:

study.monash

Domestic applicants, and international students who are currently studying Year12 or the International Baccalaureate in Australia:

vtac.edu.au

International students are also invited to apply:

monash.edu/study/international

Think Science.

Our People



CARLOS MELEGRITO

Monash Honours student

Bachelor of Science - Advanced – Global Challenges (Honours)

Why did you choose this course?

Ever since I was little, I have always dreamed of becoming a scientist. This course takes that dream of mine, and brings it to a whole new level. It enables me to combine my love for science with powerful skills like entrepreneurship, leadership and speakership.

What has been your experience of entrepreneurship?

I have always had a strong interest in graphic design, and while I was at school, I worked part-time as an amateur graphic designer. I was particularly interested in creating software that people could use and enjoy, so I created a suite of customisable graphic icons that I now sell online. It was an opportunity for me to explore what it would be like to create, market and sell something professionally for the first time ever. That first-hand experience allowed me to discover and develop my interest in entrepreneurship.

How do you see yourself using the skills you have developed in this course in the future?

A lot of people see science as a single discipline or simply just a body of knowledge, but it's more than that. Science is about exploring what's out there, building on top of what can be discovered, and for every problem, creating beautiful solutions that help many. I would like to combine my passions for science and design to solve problems and enhance the lives of others. I feel like this course will allow me to do exactly that, because I have learnt so much already and yet it has just only been half a year. That makes me even more excited to see what I will learn through in the years to follow, especially after being exposed to many inspiring leaders and amazing experiences.



STEPHANIE KENEALY

Monash Honours student

Bachelor of Science - Advanced – Global Challenges (Honours)

Why did you choose this course?

I started out in an Arts/Law course but I could see that the Global Challenges course was a very unique opportunity to blend science with communication, which is something I am very passionate about. Science needs to go hand in hand with communication as if we cannot clearly and simply convey our messages to a wide audience, our potential to make real change is severely limited.

What has your own experience of been in terms of communication and leadership?

I am the Victorian State Director for Oaktree, which is an organisation that aims to end poverty. My role involves lots of planning and strategy, as well as coordinating grass roots campaigns, logistics and communication across different channels within the organisation. The biggest challenge is experience in the role is around leadership, and how to be a work within an environment that changes all the time. It has required a lot of resilience and flexibility.

Where do you see yourself in the future?

I am passionate about alleviating poverty. I believe we can make a drastic difference to extreme poverty within a generation. Having done a lot of volunteer work in the area I would love to pursue a project-management type role, working within a community to effect change at a grassroots level. This course is giving me so much in terms of understanding what it takes to be a great leader. It is empowering me to take my ideas and transform them into something that can make real, visible and meaningful change to the world.

Lead Change.

Their Experiences



The experience in entrepreneurship, science and research I gained through Global Challenges has been invaluable to my day-to-day work with CSIRO Futures. Six months out of university, I can already see value in having skills in both business and science and hope to continue developing my career at this nexus."

DANUSHI PEIRIS

Monash Global Challenges alumna

Currently working as a Policy Advisor for the Department for Digital, Culture, Media and Sport (DCMS) in London



A role in management consulting isn't what some would call the traditional career path to follow after a science degree. But the skills and experience I was fortunate enough to gain by doing Global Challenges have been invaluable in my career thus far. The course encourages an analytical view of the world and couples this with studies in leadership and communication - all skills I lean on heavily in my day to day work. The corporate world seeks those with a broad range of skills and experience with the right mindset which aligns nicely with the purpose of this course."

DALE GEORGE

Monash Global Challenges alumnus

Currently working as a Digital Transformation Manager at Convergence.Tech



Global Challenges opened my eyes to just how many ways science can be used in every area of industry, policy, and society. The skills, knowledge and experience I was lucky enough to gain through this course has helped me incredibly in both my personal and professional development. This degree taught me how to use my passion for science to communicate, innovate, and carve out my own place in the workforce to pursue the art of change-making."

AMBER CRITTENDEN

Monash Global Challenges alumna

Marine Champions Leader at the Marine Mammal Foundation and PhD candidate.



MONASH
University

IF YOU LOVE SCIENCE, AND YOU ARE
CURIOUS, ADVENTUROUS, CREATIVE AND
PREPARED TO CHALLENGE THE STATUS QUO,
THIS COURSE IS FOR YOU.

**FURTHER
INFORMATION**

MONASH UNIVERSITY
monash.edu

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monash.edu/study

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and New Zealand citizens**
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