Career Advisers and Teachers Conference

Friday 22 February 2019
Welcome Address

Dr Michael Spence
Vice-Chancellor and Principal
Talkn’ ‘bout my generation

Presented by
Dr Steven Hitchcock
Lecturer
Work Integrated Learning Hub
The University of Sydney Business School
Agenda

- Introduction/Context
- My research and teaching
- Final thoughts
Introduction/Context
Who am I

- Dr Steven David Hitchcock
- Lecturer – Education Focused
- Work-Integrated Learning Hub
- The University of Sydney Business School
Why am I here?

- Grew up in Cambridge, New Zealand
- It was a fairly unexpected journey that brought me here.
My research
Generations and age-based narratives

- We are all familiar with them.
- But is there are there, there?
- Why are generational and age-based narratives so persistent?
Sensemaking

- We like to think of ourselves as rationale, objective thinkers, who see the world for ‘what it is’.
- However – many would suggest that people generally see the world in the way that makes sense to them.
- Generation and age-based categories allow us to make sense of the world changing.
Key findings

- Generations as stereotypes that exist ‘out there’
- Generational archetypes as negative and undesirable
- Made use of emergent generational archetypes
  - Those younger
  - Those older
  - “Old school”
  - “Senior Executives”
Identity and identification

- Humans want a people, a group, a tribe.
- Every day we do communicate who we are, and who we want to be consciously and unconsciously = identification.
- We also communicate who we are not, and who we do not want to be = disidentification.
- Generation and age-based groups serve as identities.
Key findings

- Generational identities are peripheral
- Active disidentification upon consideration
- Negative stereotypes
- Differing (aged) cultural values
- Identifying as older
- Identifying as wiser/experienced.
Taking a historical perspective

– Western history, and world history, is conspicuously punctuated with flashes of youth in revolt.

– The Renaissance, the Reformation, the French Revolution – all found their beginnings in the frustrations of youth.
Today, as always

– Young people push against the status quo.

Striking students defy PM to protest at inaction on climate change

By Josh Dwy
Updated November 30, 2018 – 4:22pm; first published at 12.59pm

Up to 5000 Sydney students have defied the Prime Minister’s instruction to stay in the classroom by going on strike to protest against the federal government’s climate change policies.

Organisers said 15,000 students took part in major nation-wide strike events held in every capital city and in 20 regional towns on Friday.

Thousands of students protested in Sydney’s Martin Place against the government’s inaction on climate change.
What does my research mean?

▪ For all of us, it means we need to rethink (or unlearn) what we know about age, generations, and young people.
▪ For us, we need to change the way we approach young people – the way we teach.
▪ Instead of invalidating their perspectives and aptitudes – embrace it. Leverage it.
▪ For me – my research and these lessons inform what I do and how I teach every single day.
Eight things that I try to remember

1. My job is to help my students learn
2. Speak to my students
3. Teach in a way that makes sense to your students
4. Engage in authentic and proxemic learning and assessment
5. Encourage critical thinking
6. Always be empathetic
7. Always be revising
8. Be better than the best teacher I’ve ever had.
Final thoughts
Why I love the University of Sydney

– The University of Sydney’s strategic plan aligns very closely with my own teaching practice and intent.
– Transforming the undergraduate curriculum
  – Revision of programs/cores
  – Interdisciplinary and Community Project Units
  – Experiential and Work Integrated Learning
  – Education-focused academics
  – Driving graduate qualities.
The end

– Thank you for being here today and supporting the leaders of tomorrow.
– Keep doing what you are doing.
– Feel free to reach out if you want to discuss.
Fin.
The Sydney Undergraduate Experience

Presented by
Associate Professor Peter McCallum
Academic Director, Policy and Quality and Acting Registrar
Our Graduates

We aim to help our graduates shape and contribute to a fast-evolving world and lead fulfilling lives.
Our Graduates

Through the Sydney Undergraduate Experience our students will graduate with:

• Depth of disciplinary expertise
• A broad range of skills including critical thinking and problem solving, communication, information/digital literacy and inventiveness
• Cultural competence
• Interdisciplinary effectiveness
• An integrated professional, ethical and personal identity
• Influence
Degree Pathways

- Professional degrees
- Specialist degrees
- Liberal studies degrees
- Combined and double degrees
### Degree pathways.

<table>
<thead>
<tr>
<th>Pathway</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Professional degrees — lead to professional accreditation and/or registration, generally including compulsory work placements and internships</td>
<td>Architecture, education and social work, engineering and IT, law, medicine and health, nursing and psychology</td>
</tr>
<tr>
<td>Specialist degrees — students study a set of defined fields that develop expertise in a specific area and can take electives from other faculties to broaden their learning</td>
<td>Design computing, economics, music and visual arts</td>
</tr>
<tr>
<td>Liberal Studies degrees — students can follow their interests and study what they enjoy most, designing their own degrees from a broad range of disciplines</td>
<td>Arts, commerce and science</td>
</tr>
</tbody>
</table>
The student experience

*Indicative course structure for a specialist or liberal studies degree taken with the combined Bachelor of Advanced Studies*
# The student experience

Sample course structure: Bachelor of Commerce/Bachelor of Advanced Studies, Professional Accounting program with a major in finance

Note: Course structure is indicative only, for more information visit sydney.edu.au/courses/business

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Units of study</th>
<th>Quantitative Business Analysis</th>
<th>Accounting, Business and Society</th>
<th>Introductory Macroeconomics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Future of Business</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Leading and Influencing in Business</td>
<td>Financial Accounting A</td>
<td>Business Law for Accountants</td>
<td>Corporate Finance I</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>Digital Influence through Social Media</td>
<td>Management Accounting A</td>
<td>Marketing Principles</td>
<td>Corporate Finance II</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Financial Accounting B</td>
<td>Australian Taxation System</td>
<td>Investments and Portfolio Management</td>
<td>3000-level: Alternative Investments</td>
</tr>
<tr>
<td>3</td>
<td>2</td>
<td>Accounting and Auditing in Practice</td>
<td>Accounting Information Systems</td>
<td>3000-level elective:</td>
<td>Finance in Practice</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Elective (4000-level advanced coursework unit)</td>
<td>Elective (4000-level advanced coursework unit)</td>
<td>Project unit (12 credit points), such as Research Project, Community Project, Industry Project or Entrepreneurship Project</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Project unit (12 credit points), such as Research Project, Community Project, Industry Project or Entrepreneurship Project</td>
<td></td>
<td>Entrepreneurship and Innovation</td>
<td>Hollywood: Art, Industry, Entertainment</td>
</tr>
</tbody>
</table>

Legend:
- Major 1
- Major 2 or Minor
- Degree core
- Major elective
- Elective
- Open Learning Environment (OLE)
- Advanced coursework (4000-level units and above)
Year 1: The shared pool of majors and minors

- 100+ majors and minors to choose from
- Develop cross-disciplinary expertise and effectiveness
- Collaborate with students and staff from across the University
The Open Learning Environment

- OLEs are where we really leverage the breadth and flexibility of our offerings, providing students with a simple way to expand their skillset by building foundational knowledge in disciplines across the University.
- You will be hearing from an expert later in the program today who will explain in detail the structure and flexibility of OLEs.
- It provides exciting opportunities to dip into an area of learning where the student has an interest or passion but no experience.
Years 2 & 3: Global Opportunities

- 300 international partners across 42 countries
- 128 of our partner universities are ranked in the top 200 in the world
- Semester and year-long programs, overseas field schools, intensive in-country OLEs, short-term programs and global professional placements
- By 2020 we aim to have 50% of our students undertake an international experience as part of their studies
Year 3: Project–based learning

- Combined with a three-year degree – four years total
- Enables students to supercharge their degree, challenging themselves with:
  - Advanced coursework
  - Greater access to the shared pool of cross-disciplinary majors
  - Collaborate across disciplines to complete a major community, industry, internship or entrepreneurship project
  - Complete a traditional fourth year Honours program (by application)
Year 4: The Combined Bachelor of Advanced Studies

- Combined with a three-year degree – four years total
- Enables students to supercharge their degree, challenging themselves with:
  - Advanced coursework
  - Greater access to the shared pool of cross-disciplinary majors
  - Collaborate across disciplines to complete a major community, industry, internship or entrepreneurship project
  - Complete a traditional fourth year Honours program (by application)
Become a Dalyell Scholar

Students will develop leadership expertise through access to:

- Distinctive Dalyell units
- Advanced programs and accelerated learning options
- Exclusive research and entrepreneurship opportunities
- Tailored mentoring and professional skill development
- International experiences including a global mobility scholarship

For high-achieving students with a 98+ ATAR.

Entry is by invitation or UAC preference, depending on the course.
Developing the next generation of leaders.

Ranked 1\textsuperscript{st} in Australia and 5\textsuperscript{th} in the world for graduate employability\footnote{QS Graduate Employability Rankings 2019}
Global Mobility Opportunities

Presented by
Ms Cara Bonnington
Manager, Student Mobility & Exchange

Sydney Global Mobility
sydney.edu.au/study/overseas-programs
Sydney Undergraduate Experience

**Academic rigour**
Gain a deep understanding of your chosen disciplines of study and learn from those who are leaders in their fields.

**Global perspectives**
Set yourself up to go anywhere in the world by gaining the skills and understanding to work effectively across cultural boundaries. Go on exchange, study a language, or undertake projects in distinctive cultural settings here and overseas.

**Cross-disciplinary learning**
Study across or work with other disciplines to build your skills and tackle some of the most complex challenges of our time.

**Real-world projects**
Bridge the gap between theory and application by working on real-world industry, community, research and entrepreneurship projects.
Global Perspectives

Semester Exchange

Short-term Programs

Faculty Programs
Exchange Program Snapshot

- **250+** exchange partners in over **40** countries
- **131** exchange partners ranked in the **top 200** universities worldwide*
- **7** Super Exchange partners with capacity for **100** students per year

*Times Higher Education World University Rankings 2019
Why Student Mobility?

Our Super Exchange Partners
Study overseas with one of our seven ‘Super Partner’ universities, with many ranked in the top 50 in the world.*

* More than 50% of our exchange partners are listed among the top 200 universities in the world (Times Higher Education World University Rankings, 2019).
Short-term Program Snapshot

- Short-term Exchange
- Short-term Non-Exchange
- Faculty Programs
  - OLEs
  - Offshore Units
  - Field Schools
  - ICPUs
  - Faculty-led
Faculty Programs

“Being in Germany on the OLE in-country study changed the way I received the historical information we were taught. Learning about the key parts of German history was a much more visceral, real experience in the city of Berlin compared to in a lecture theatre.”

Vallerie Xu Bachelor of Economics
OLE Experience Germany
Scholarships, Grants and Funding Options

- Super Partner Scholarships
- Academic Merit Scholarships
- Dalyell Scholars Global Mobility Scholarship
- Vice Chancellor’s Global Mobility Award
  - $5000 for semester exchange
  - $2500 for eligible short-term programs
  - Offered to students who entered the University of Sydney on an E12 or equivalent pathway.
- OS-HELP Loans
Global Citizenship Award

An internationally-focused leadership development program providing distinctive international and leadership opportunities to prepare students to be global citizens.

GCA participants attend a series of speaker events and practical skills development seminars around the GCA key themes.
Questions?

Download a Global Mobility Guide
Global Citizenship Award
Area Focus: Get ready for the future

Ms Judith Kingston
Associate Director Product
Interdisciplinary Project Units in the Faculty of Arts and Social Sciences
FASS3999 Interdisciplinary Impact Units: what are they?

- 6 CP capstone unit in completed in a student’s third year
- Aimed at helping students learn key skills (collaboration, creativity, problem-finding, critical self-reflection) by focusing on case studies drawn from real life
- Often the first time students engage seriously with others in the faculty outside their primary study programs
- Meets the University’s new vision for graduates with high employability, leadership, agile problem solving and advanced cultural competencies.
- Current emphasis is on Westmead, home to Sydney’s largest and most diverse population

- More information: Professor Michael Anderson
  <Michael.Anderson@Sydney.edu.au> and
  https://sydney.edu.au/arts/students/interimpact.shtml
<table>
<thead>
<tr>
<th>Week</th>
<th>Learning theme</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Disciplinarity and Interdisciplinarity</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Interdisciplinary approaches to complex problems and introduction to site analysis</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Communication</td>
<td>Mapping knowledge exercise (30%)</td>
</tr>
<tr>
<td>4</td>
<td>Creativity</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Collaboration across disciplines</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Critical Reflection in Interdisciplinary Contexts</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Introduction to Wicked Problems: Westmead case study</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Developing an interdisciplinary project</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Gathering rich data: interdisciplinary research</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Communicating interdisciplinary research</td>
<td>Collaborative Presentation (30%)</td>
</tr>
<tr>
<td>11</td>
<td>Interdisciplinary and transdisciplinary research: Stories from the research space</td>
<td>Critical reflection essay (40%)</td>
</tr>
</tbody>
</table>
Industry and Community Project Units (ICPUs)

Also 6 CP offered in both semester length and intensive modes, some also with overseas immersion involved.

Students:

▪ Engage with leading industry and community organisations in domestic and global environments;

▪ Challenge conventional ways of thinking by working at disciplinary intersections;

▪ Develop their broader skills set out in the graduate qualities; and

▪ Collaborate to address unfamiliar problems and navigate context complexity.
## ICPU Assessment

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Type</th>
<th>Weighting</th>
<th>GQ/LO</th>
<th>Assessor</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Group Plan 2500 words</td>
<td>Group</td>
<td>20%</td>
<td>1, 2, 4,</td>
<td>Project Supervisor</td>
<td>Week 5 (11.59pm Sunday)</td>
</tr>
<tr>
<td>Individual Statement 1500 words</td>
<td>Individual</td>
<td>20%</td>
<td>1, 3, 4, 5</td>
<td>Project Supervisor</td>
<td>Week 7 (11.59pm Sunday)</td>
</tr>
<tr>
<td>Group Project Report 5000 words (or equivalent)</td>
<td>Group</td>
<td>50%</td>
<td>1, 2, 4, 6</td>
<td>Project Supervisor</td>
<td>Week 12 (11.59pm Sunday)</td>
</tr>
<tr>
<td>This assessment includes an individual contribution mark worth 10%.**</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Group Presentation (≤ 20 mins)</td>
<td>Group</td>
<td>10%</td>
<td>2, 4,</td>
<td>Project Supervisor</td>
<td>Week 12-13 (as advised by the Project Supervisor)</td>
</tr>
</tbody>
</table>
## 2019 Example Project Partners

<table>
<thead>
<tr>
<th>Industry Partner</th>
<th>Industry Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accenture</td>
<td>Technology disruption through autonomous vehicles</td>
</tr>
<tr>
<td>AGL</td>
<td>The future of the electricity grid</td>
</tr>
<tr>
<td>Allianz</td>
<td>Millennials and the future of work</td>
</tr>
<tr>
<td>ANZ Bank</td>
<td>Digital disruption</td>
</tr>
<tr>
<td>Bain &amp; Company</td>
<td>Diversity in Australian workplaces</td>
</tr>
<tr>
<td>Career Seekers</td>
<td>Resettlement of asylum seekers and refugees</td>
</tr>
<tr>
<td>City Recital Hall</td>
<td>Future of performance</td>
</tr>
<tr>
<td>Data 61</td>
<td>CSIRO</td>
</tr>
<tr>
<td>DIPX International</td>
<td>Using patient experiences to improve healthcare delivery</td>
</tr>
<tr>
<td>DXC Technology</td>
<td>Minimum Viable Product (MVP) sprint</td>
</tr>
<tr>
<td>NSW Farmers Association</td>
<td>Fairness in supply chains: supermarkets, profit margin &amp; dairy farmers</td>
</tr>
<tr>
<td>Public Service Commission</td>
<td>Diversity in leadership</td>
</tr>
<tr>
<td>PwC</td>
<td>Future of Sydney precincts</td>
</tr>
<tr>
<td>QBE</td>
<td>Impact of climate change</td>
</tr>
<tr>
<td>Thales</td>
<td>The impact of drones on air travel</td>
</tr>
<tr>
<td>Westmead Precinct and NSW Health</td>
<td>Clearing the air at Westmead: improving a smoke-free environment</td>
</tr>
<tr>
<td>Westpac</td>
<td>Impact of artificial intelligence on banking</td>
</tr>
</tbody>
</table>
Collaborations with Partner Universities

• Developing multi university, multi country delivery of ICPUs.

• Students work in interdisciplinary and inter university groups with community and industry partners to solve real world problems.

• Mix of operational and academic responsibility.

• Pilots with the University of Padua (February 2019 AUS; July 2019 Italy)- - Smart Food

• University of California, Davis (2019)- Energy Conservation on Campus, Drought Management.

• Global Educational Innovation Network
Doing both

- Interdisciplinary impact helps students understand the importance of tackling issues from multiple perspectives, while ICPUs prepare students for careers beyond the university. Students apply their technical skills in new applications and develop transferable skills.

- We know it works. In our pilots leading to this point this is what our industry partners have said:

  *I have been blown away by the professional conduct of the students, their ability to handle such a difficult research assignment with such grace... and their ability to 'think outside the box' - connecting disparate pieces of information into a cohesive, data-driven story we can use in our decision-making process.*

- And students have said:

  *“This subject is easily one of the best subjects I have done at the University. I wish I could do a subject like this every semester”*
University of Sydney
Business School

Associate Professor Catherine Hardy
Acting Associate Dean (Programs)
Our Bachelor of Commerce degrees

Bachelor of Commerce

- 95 ATAR
- 3 years
- Major + minor or 2nd major
- Flagship business program designed with industry

Bachelor of Commerce/Bachelor of Advanced Studies

- 95 ATAR
- 4 years
- 2 majors
- Advanced coursework and Honours opportunities

Bachelor of Commerce Combined programs

- 5 years
- 1 Business major
- Combined with: Advanced Computing Engineering (Hons) Laws

Dalyell Scholars Program (98 ATAR)
Study one of 11 majors in Business

- Business Information Systems
- Marketing
- Business Law
- International Business
- Business Analytics
- Management
- Finance
- Industrial Relations and Human Resource Management
- Accounting
- Banking
Math in Business

How Maths translates through our Business degrees

- Critical thinking
- Analytical skills
- Problem solving
- Decision making tools
- Reasoning skills
Initial application of Maths in Business

- Accounting for business and society
- Quantitative business analysis
- Future of business
- Leading and influencing in Business
Marketing
– Identify consumer groups
– Forecasting sales revenue
– Calculate campaign ROI

Business Analytics
– Predict stock valuations
– Improve operational efficiencies
– Statistical decision making
Industrial Relations and Human Resource Management

– Effectiveness of reward and remuneration structures
– Impact of economic growth in different countries on particular employment arrangements

Finance

– Determine the financial position of a firm to make investment decisions
– Evaluate the outcomes from restructuring transactions
Support available

Academic Support
- Peer Assisted Study Sessions (PASS)
- ‘Maths in Business’ Workshops

Career Readiness
- Careers and Employability Office (CEO)
- Peer mentoring and support
Thank you!

Questions & Answers

University of Sydney Business School
We are in the century of Science

.........taken 300,000 years but now complete description of human life

..........
Where we can change what it is to be human

He Jiankui of China’s Southern University of Science and Technology used CRISPR to alter the genome of human embryos, reports knocked out a gene called CCR5 that makes people susceptible to HIV, smallpox, and cholera.
A century when data is everywhere
A century when jobs are transforming

..............AI, serious concern for society
..............suggestions we will all need to learn how to be on leave
......but ....rise of the humanics – empathy and arguing with curiosity and respect, important
A century when this has become a reality
Curriculum in Science@Sydney changing

Disciplinary depth
Provide practical based skills for the real world
Immersive and global experiences
Strengthen personal capacities and work opportunities ........ to.......
As we create connections between once silo disciplines
Many possible curriculum combinations
Here are a few........

- Mathematics + Computer Science → Cyber security research
- Medicinal chemistry + Health → Product development in international pharmaceuticals industry
- Physics + Archaeology or Psychology → Make meaning a reality
- Microbiology + Data Science → Fight antibiotic-resistant bacteria
- Geography + Environmental Science → International development and sustainability challenges
Y?
Prepare all of our students for the future
Who are our students and what are they doing?

1

2

3

4

5
Student profile: Matthew Watts

Indigenous student from Tamworth, NSW

Bachelor of Advanced Science/Bachelor of Information Technology, majors in Mathematics, Physics and Computer Science

Internships at CSIRO and e-Health NSW

Matthew Watts
Current student

University of Sydney
Student Ambassador

Aspires to pursue a career in cyber security or quantum computing
Student profile: Alison Campbell

Bachelor of Science, major in Nanoscience and Nanotechnology Dalyell Scholar’s Program

Completed undergraduate research projects

Paid position as a Demonstrator in the School of Physics

Aspires to complete Honours

“The most surprising thing about my degree is the flexibility that it has provided me to pursue what interests me most. I didn’t expect to be able to partake in so many exciting research opportunities as part of the [Dalyell Scholar’s Program]”
Where can a degree in STEM take you?

- Bachelor of Aeronautical (Space) Engineering
- PhD in Aerospace Engineering – Robotic Navigation
- Completed Honours in Computational aerodynamics
- Visiting Researcher at Texas A&M University
- Visiting Researcher at NASA Jet Propulsion Laboratory
- Facilitating Zero Robotics Programming Competition in Australia

Dr Ben Morell
Researcher
Where can a degree in STEM take you?

- Bachelor of Science (Advanced) (Honours)/Bachelor of Arts
- PhD in Galactic Archaeology
- Completed part of his PhD study overseas at Cambridge
- Internship at Google
- Full-time work at Google, studying the expansion and evolution of their network
- Brendan McMonigal
  Software engineer at Google
Providing Professional Development which is Accredited – STEM Academy

- Cross Curriculum initiatives in STEM across NSW Schools
- Mentoring and professional development

Contact stem.academy@sydney.edu.au
Bachelor of Science

Passion ignited in 3rd year after majoring in Biology and History & Philosophy of Science

Summer volunteer placement with ABC Natural History Unit

Commissioning Editor of science and nature documentaries at ABC

Produced over 30 award-winning films for National Geographic, Discovery Channel and Animal Planet

Projects in Vietnam, Thailand, India, Singapore, London etc.

Her film, Blue, was screened at the United Nations after she was invited there by its President

Karina Holden
Head of Factual at Northern Pictures

Where can a degree in STEM take you?
We have created Science@Sydney STEM, STEMM, STEAM, STEAMM curriculum – for everyone

5th February 2019
All possible careers

Agriculture, Forestry and Fisheries; Astronomy; Biotechnology; Business, Management and Consultancy; Conservation; Education and Training; Finance, Banking and Insurance; Food security; Government, Defence and Legal; Health and Community; IT, Communications and Technology; Materials and manufacturing; Media, Marketing and Communications; Medical; Mining and Resources; NGOs and International Development; Psychology; Research; Sport Science; Sustainability; Tomorrow’s Technologies; Transport; Veterinary and Animal Industries; Water
Where can a degree in STEM take you?

- **Bachelor of Engineering Honours (Civil)**
- **Project Manager at Waterway Constructions Pty Ltd**
- **2013 BHP John Monash International Scholar**
- **Master of Public Policy and MBA at Stanford University**
- **Non-Executive Director of the Foundation, Royal Agricultural Society**
- **Founder of the Infrastructure Collaborative**
- **Founder of The Exchange Dubbo**
- **Founder and CEO of the Infrastructure Collaborative**
- **NSW Rural Woman of the Year 2018**

Jillian Kilby

Where can a degree in STEM take you?
STEM career opportunities

International research indicates that 75% of the fastest growing occupations now require STEM skills and knowledge.
The Future of Health

Presented by
Dr Carl R Schneider
Senior Lecturer (Pharmacy Practice)
Faculty of Medicine and Health
The University of Sydney

sydney.edu.au/medicine-health
Why a career in health?

- Do you want to care for people and make a difference?
- Do you like variety and life-long learning?
- Do you like working in a team?
- Do you want to take your career to other places?
- Do you want to be part of the largest and fastest growing employment sector?
- Do you want to be well paid, trusted and valued?
Why Allied Health at the University of Sydney

1. World leaders in health sciences research and education - #2 in the world
2. Research intensive – focused on solving some of the biggest problems in healthcare
3. Industry, research and clinical partnerships
4. Our graduates are leaders and courageous agents of change
The future of health

Disease prevention
Managing chronic diseases e.g. Pain, cancer, mental health
Leadership and entrepreneurship in clinical practice
Digital health innovation
Primary healthcare inc. aged care
Multidisciplinary research and practice e.g. Cardiovascular disease, diabetes, obesity
Technological advances (robotics)
Focus on health and wellbeing

The University of Sydney
Changing Demographics in Australia: Population Pyramid ABS 2016 to 2050
The widest range of health courses in Australia

- Exercise and Sports Science (3y)
- Physiotherapy (4y)
- Speech Pathology (4)
- Rehabilitation Counselling (PG degree)
- Oral Health & Dentistry (4y)
- Exercise Physiology (4)
- Occupational Therapy (4)
- Diagnostic Radiography (4)
- Nursing (3-4y)
- Medicine (4y)
- Pharmacy (4)
- Nursing (3-4y)
Interdisciplinary fieldwork at USyd
Experience, exposure and teamwork:
Interdisciplinary Team building
Health Care Challenge
- 1600 students
- 16 disciplines
- 1 day
Leadership development program
- giving our graduates the best possible start

- Begin the leadership journey
- Continue leadership development
- Complete your leadership journey
A glimpse of your future health learning hubs
New Health Precinct – bringing health disciplines together
Opening 2020/21
The Susan Wakil Health Building
Nursing and Midwifery, Allied Health
Westmead Precinct Opening 2020/21
In the heart of the clinical environment.
Where to start from here:
Career pathways

Know where you want to end up, but unsure how to get there? Explore your career pathways.

I want to become a dentist
- Study a B Oral Health or any Bachelor Degree
- Study a D Dental Medicine

I want to become a nurse
- Study a B Nursing (Advanced Studies)
- Study a B Science, B Arts or any Bachelor Degree
- Study a M Nursing

I want to become a doctor
- Study a B Science, B Arts or any Bachelor Degree
- Study a D Medicine

I want to become a pharmacist
- Study a B Pharmacy or B Pharmacy and Mgmt
- Study any Bachelor Degree
- Study a M Pharmacy
I want a career in Allied Health

Study a B Applied Science in...
- Diagnostic Radiography
- Exercise and Sports Science
- Exercise Physiology
- Occupational Therapy
- Physiotherapy
- Speech Pathology

I want to change my career direction or I didn’t get the ATAR

Study any Bachelor Degree

Study a Graduate Entry Master

Study a B Science (Health)

- M Diagnostic Radiography
- M Exercise Physiology
- M Occupational Therapy
- M Physiotherapy
- M Rehabilitation Counselling
- M Speech Language Pathology

= Undergraduate  = Postgraduate, admission requirements apply
Undergraduate Courses

For students completing their first degree

We offer 2 types of courses
1. Specialist courses with professional accreditation
2. Liberal degrees
<table>
<thead>
<tr>
<th>COURSE</th>
<th>YEARS</th>
<th>QUALIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Applied Science (Physiotherapy)</td>
<td>4</td>
<td>Physiotherapist</td>
</tr>
<tr>
<td>Bachelor of Applied Science (Exercise and Sport Science)</td>
<td>3</td>
<td>Exercise scientist</td>
</tr>
<tr>
<td>Bachelor of Applied Science (Occupational Therapy)</td>
<td>4</td>
<td>Occupational therapist</td>
</tr>
<tr>
<td>Bachelor of Applied Science (Exercise Physiology)</td>
<td>4</td>
<td>Exercise physiologist</td>
</tr>
<tr>
<td>Bachelor of Applied Science (Speech Pathology)</td>
<td>4</td>
<td>Speech pathologist</td>
</tr>
<tr>
<td>Bachelor of Applied Science (Diagnostic Radiography)</td>
<td>4</td>
<td>Diagnostic radiographer</td>
</tr>
<tr>
<td>COURSE</td>
<td>YEARS</td>
<td>QUALIFICATION</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Bachelor of Science (Health) (exchange available)</td>
<td>3</td>
<td>Broad range of careers and pathway to postgraduate specialisation eg. MOT, MSLP, MPTY</td>
</tr>
<tr>
<td>Bachelor of Science (Health)/Bachelor of Advanced Studies</td>
<td>4</td>
<td>Advanced coursework in Year 4 (research, community, industry or entrepreneurship project or honours)</td>
</tr>
<tr>
<td>TABLE S majors: Health, Hearing and Speech</td>
<td>48 cp</td>
<td>Design your own degree combining majors from a range of disciplines</td>
</tr>
<tr>
<td>Bachelor of Applied Science/Advanced Studies (Exercise Sports Science)</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>
Bachelor of Science (Health)

A liberal degree that allows students to study health in a broad context

**Second majors:**
- Hearing and Speech
- Human Movement
- Anatomy
- Nutrition
- Psychology
- Marketing and Management and many more

Bachelor of Science (Health)

Master of Public Health
Master of International Public Health
Graduate Entry Masters
Master of Nursing
### Graduate Entry Health Science Courses

All courses are 1.5-2 years

<table>
<thead>
<tr>
<th>COURSE</th>
<th>YEARS</th>
<th>QUALIFICATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master of Physiotherapy</td>
<td>2</td>
<td>Physiotherapist</td>
</tr>
<tr>
<td>Master of Occupational Therapy</td>
<td>2</td>
<td>Occupational therapist</td>
</tr>
<tr>
<td>Master of Speech Language Pathology</td>
<td>2</td>
<td>Speech pathologist</td>
</tr>
<tr>
<td>Master of Diagnostic Radiography</td>
<td>2</td>
<td>Diagnostic radiographer</td>
</tr>
<tr>
<td>Master of Exercise Physiology</td>
<td>1.5</td>
<td>Exercise physiologist</td>
</tr>
<tr>
<td>Master of Rehabilitation Counselling</td>
<td>2</td>
<td>Rehabilitation Counsellor</td>
</tr>
<tr>
<td>COURSE</td>
<td>YEARS</td>
<td>QUALIFICATION</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>-------</td>
<td>--------------------------------------------------------</td>
</tr>
<tr>
<td>Bachelor of Pharmacy</td>
<td>4</td>
<td>Registered Pharmacist</td>
</tr>
<tr>
<td>Bachelor of Pharmacy &amp; Management</td>
<td>5</td>
<td>Registered Pharmacist with sound business knowledge and skills</td>
</tr>
<tr>
<td>COURSE</td>
<td>YRS</td>
<td>QUALIFICATION</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----</td>
<td>---------------------------------------------------</td>
</tr>
<tr>
<td>Bachelor of Nursing (Advanced Studies)</td>
<td>3</td>
<td>Registered Nurse</td>
</tr>
<tr>
<td>Bachelor of Arts/ Master of Nursing</td>
<td>4</td>
<td>Registered Nurse + broad humanities knowledge</td>
</tr>
<tr>
<td>Bachelor of Science/ Master of Nursing</td>
<td>4</td>
<td>Registered Nurse + broad science knowledge</td>
</tr>
</tbody>
</table>
### Courses to become registered

<table>
<thead>
<tr>
<th>Course Description</th>
<th>Credit Load</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graduate Certificate in Pharmacy Practice (Intern Training Program)</td>
<td>1 P/T</td>
<td>Fulfils the coursework requirements for registration as a pharmacist with the Pharmacy Board of Australia.</td>
</tr>
<tr>
<td>Graduate Certificate in Evidence-Based Complementary Medicines</td>
<td>1 P/T</td>
<td>Contributes to <strong>Continuing Professional Development</strong> (CPD) for pharmacists and other health care professionals</td>
</tr>
</tbody>
</table>
MEDICINE AT SYDNEY

B Science
B Arts
[3 years FT minimum]

Doctor of Medicine
[4 years FT]

Bachelor's degree

GAMSAT

INTERVIEW

[3 years FT minimum]

Doctor of Medicine
[4 years FT]
<table>
<thead>
<tr>
<th>COURSE</th>
<th>YEARS</th>
<th>PROFESSION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Oral Health</td>
<td>3</td>
<td>Oral health therapist</td>
</tr>
<tr>
<td>Bachelor of Science/Doctor of Dental Medicine</td>
<td>7</td>
<td>Registered Dentist</td>
</tr>
<tr>
<td>Doctor of Dental Medicine</td>
<td>4</td>
<td>Registered Dentist</td>
</tr>
</tbody>
</table>
Entry to Dentistry

**Bachelor of Science**
- [3 years FT minimum]

**Doctor of Dental Medicine**
- [4 years FT]

**Bachelor’s degree**
- [3 years FT minimum]

**Doctor of Dental Medicine**
- [4 years FT]

- ATAR 99.5 (or equiv)
- +ASSESSMENT DAY
- GAMSAT
- INTERVIEW
Careers and Employability

Get set for career success

Presented by
Libby Graham
Head, Strategic Partnerships and Engagement
Faculty of Arts and Social Sciences
Why the University of Sydney?

#1 in Australia and

#5 in the world

QS Graduate Employability Rankings 2019
What are employers looking for?

• Good written and verbal communication
• Interpersonal skills
• Analytical and problem solving skills
• Teamwork
• Initiative
• Information/digital literacy
• Planning and organising
Preparation of our graduates for the future

- Professional placements
- Internships
- Work-integrated projects
- Real-life interdisciplinary projects
- Careers support services and mentoring
Professional placements

Our professional degrees provide hands-on, integrated learning with our industry partners:

• Education and Teaching
• Social Work
• Health (e.g. medicine, dentistry, nursing, pharmacy)
• Veterinary Medicine
• Food and Agribusiness
• Engineering
Spotlight: Occupational Therapy

• Over 1000 hours of supervised clinical placements (hospitals, private practice, community)
• At least one placement in a rural and remote area
• Partners include Neami National, Liverpool Hospital, Sydney Local Health District Mental Hospital
Spotlight: Engineering Professional Engagement Program

Complete a minimum of 600 hours of professional engagement, consisting of:

- Engineering-focused activities (e.g. workshops and competitions)
- Work experience: Partners include Google, Lendlease and Resmed
Internship opportunities

- Curriculum-supported opportunities to gain professional experience
- Credit and non-credit options available
- Paid internships available
- International internships available
Spotlight: ArtSS Career Ready

- Mentoring and career support across the Faculty of Arts and Social Sciences
- Gain important work-ready experience through placements and internships
- Partnerships include Accenture, Allianz, Challenger, KPMG, Macquarie Bank, NBC Universal, NSW Government, Sydney Opera House, Telstra and more.
Spotlight: Industry Placement Program

Available to students enrolled in a Business School degree across 3 categories:
Local: Sydney-based firms across many industries (e.g. KPMG, Coca Cola Amatil)
Canberra: Government and not-for-profit agencies (e.g. Austrade, World Wildlife Fund Australia)
International: Partners in Asia, Europe and the US (e.g. OECD, Capello Group)
Industry integrated project-based learning

We have a wide network of industry, government and community partners. Engage with major industry partners, solve real world challenges and prepare for the future.

• Gain industry experience
• Collaborate across disciplines
• Solve real world challenges
## Example Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Partner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Millennials and the future of work</td>
<td>Allianz</td>
</tr>
<tr>
<td>Development and ownership of green space</td>
<td>Glebe Community Development</td>
</tr>
<tr>
<td>Diversity in leadership</td>
<td>Public Service Commission</td>
</tr>
<tr>
<td>The impact of artificial intelligence (AI) on banking</td>
<td>Westpac</td>
</tr>
<tr>
<td>Improving the quality of learning experiences for students in hospital</td>
<td>Westmead Hospital School</td>
</tr>
<tr>
<td>Resettlement of asylum seekers and refugees</td>
<td>Career Seekers</td>
</tr>
<tr>
<td>Fairness in supply chains: Supermarkets, profit margin &amp; dairy farmers</td>
<td>NSW Farmers Association</td>
</tr>
</tbody>
</table>
Our career services will help you

- Plan your career
- Develop your career decision making skills
- Career Counselling
- Develop resume and cover letter
- Engage in experiential recruitment activities such as mock interviews and assessment centres
- Job Interview and Application Advice
- Careers Skills Workshops

Faculty dedicated careers services

- University of Sydney Business School Career Employability Office (CEO)
- ArtSS Career-Ready
- Careers support in Science
Engage with industry

**Careers Fairs:**
- Investment Banking and Consultancy Fair
- Law Careers Fair
- Teach Abroad Careers Fair
- Start-up Careers Fair
- Graduate Jobs and Internships Fair (Autumn and Spring)

**Employer Information Sessions:**
- Meet recruiters and learn about the company
- Gain information on how companies recruit
- Learn how to secure an internship or graduate position

Access to Sydney CareerHub, an online jobs database.

sydney.edu.au/careers
Thank you.