O-Week Introduction to Computer Engineering

- Welcome to UNSW, CSE and your studies in Computer Engineering
- Welcome to what I hope will be one of the best experiences of your life
- You will learn about
 - Computer systems design and implementation
 - Hardware and software
 - From small to large
 - From remote and isolated to ubiquitous
 - From the edge to the core of the Internet
 - From off-the-shelf to custom built
 - From transistors to the planetary scale world wide web
- You'll learn that it's an ever-changing field, firmly rooted in engineering discipline
- Four-year degree program including study of computing cores, maths, physics, electronics, design, computer architecture, embedded systems, operating systems and electives.
 - o 1st year computing cores, maths, physics, electrical intro
 - 2nd year computing cores, maths, design, electronics, digital design
 - 3rd year computer architecture, embedded systems design, operating systems & electives in networks, AI, algorithms, HCI, computer vision or robotics
 - 4th year design project, thesis, professional issues & ethics, advanced electives
 - 60 days of industrial training
- At graduation, you are qualified to commence a large range of careers, including:
 - Design, build & maintenance roles in HW, systems, networks & software
 - o In business, industry, and government/public sector
 - In technology companies, entertainment, finance, logistics & sales
 - Automating manufacturing, mining, agriculture, transport & infrastructure
 - In government agencies, including health, education, law, police, defence & security
- There's a lot we'll cover and a lot we hope you'll think about...
- We're here to help if you get stuck or wish to discuss your options
- My name is Oliver Diessel; I'm the Director of Studies for Computer Engineering