Australian National University

Welcome to

Comp 3120/8110

Software Development Management / Managing Software Projects in a System Context

Image: http://www.seguetech.com/blog/2013/02/05/Project-manager-role-software-development

Let’s start by talking about how the course
will be run and other important things for you to know!

Lectures and Workshops

Lectures

Discussions and large group exercises

Tuesdays 2pm-3pm on Zoom

Thursdays 4pm-6pm on Zoom

Workshops

Small group work

Sign up for workshops from 3pm today (23rd February.

Tuesdays (9am-11am)
Tuesdays (12pm-2pm)
Tuesdays (3pm-5pm)
Tuesdays (5pm-7pm)
Wednesdays (11am-1pm)
Thursdays (10am-12pm)
Thursdays (12pm-2pm)
Fridays (9am-11am)

Please sign up by 11am Friday

I will be putting you into your groups immediately to enable you time to prepare for next week's workshops!

Workshops

~30 students in each workshop → ~6 groups of 5 students each → Separated into ~ 2 divisions, each with ~3 groups → Each division attends 1 hour of the two hour workshop

- Individually you will watch the instructional videos (a few short videos)
- As a group you will meet (online) and complete the activity worksheet
- One of your group will submit your activity worksheet on Mondays of workshop weeks

Online tools and resources we will use in this course

piazza
Ask. Answer. Explore. Whenever.

Australian National University
Wattle

turnitin

socrative
CALDWELL8573

Don’t forget that the window to change/enrol is only ONE week

Deadline to **add** Semester 1 courses via ISIS is
Monday 1st of March

Deadline to **drop** Semester 1 courses via ISIS is before
Wednesday 31st of March

Australian National University

cecs.anu.edu.au/current-students

Australian National University | ANU College of ENGINEERING & COMPUTER SCIENCE

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CURRENT STUDENTS

- Meet CECS Student Services
- Getting started »
- Frequently asked questions
- Opportunities and projects »
- Student research projects
- Support and wellbeing
- Policies and resources »
- All current active opportunities

RELATED SITES

- Research School of Computer Science
- Research School of Electrical, Energy and Materials Engineering
- Reimagine
- 3A Institute
- CSIRO's Data61
- CO-LAB An ASD - ANU collaboration »
- Sol Invictus
- McKenzie Chair
- W3C

» Current students

Current students

Student Services has moved

CECS Student Service staff have recently moved. You can find us on Level 2, CSIT Building #108.

We please ask that students submit their enquiries through email to studentadmin.cecs@anu.edu.au. If you have a complex enquiry that needs to be answered face-to-face, please book an appointment through the CECS Student Services Booking System.

During this time, we may take longer to respond to enquiries. We ask that you please be patient. Please do not send multiple emails.

Where is the CECS Student Services office located >>

Coronavirus and travel restrictions

We have comprehensive information about coronavirus, travel restrictions and the arrangements we have in place to support our community on the University website.

Semester one will start on 24 February as planned.

Meet CECS Student Services

Getting started for new students

Student opportunities and projects

Important Information

Information about internships, work experience, international exchange etc.

Comp3120/8110 Class Representative

Roles and Responsibilities

- ✓ Be creative and proactive in gathering feedback from your classmates about the course.
- ✓ Act as the official liaison between your classmates and your lecturers; Communicate feedback about the course and providing course-related updates to your classmates. You'll also provide regular reports to the Associate Director (Education) on the feedback you've been gathering.

Benefits of Being a Class Rep

- ✓ Opportunity to develop skills sought by employers – particularly interpersonal, dispute resolution, leadership and communication skills.
- ✓ Empowerment: Play a more active role in determining the direction of your education. Become more aware of issues influencing your University and current issues in higher education.
- ✓ Ensure students have a voice!

CECS Class Representatives

Want to be a Class Rep? Nominate today!

- To nominate yourself as a Class Representative, students are asked to nominate themselves via an eform by midday 1st March 2021 at:
- https://anu.au1.qualtrics.com/jfe/form/SV_8H50LYu50DbvXiR

You are free to nominate yourself whether you are on campus or off-shore.

You will be contacted by CECS Student Services, Employability and Experience by 5th March with the outcome of your self-nomination.

All course representative meetings will be held via Zoom in Semester One 2021. There will be three meetings this semester, meeting details will be provided to course representatives shortly.

For more information regarding roles and responsibilities, contact:

ANUSA CECS representatives Sandy Ma and Swatantra Roy: sa.cecs@anu.edu.au
ANUSA President Madhumitha Janagaraja: sa.president@anu.edu.au

Who am I?

Dr Sabrina Bleecker Caldwell

School of Computing
The Australian National University

Dual citizen Australia and USA

BA(Hons)/BSc 2003
1st PhD @ CASS ANU 2008
2nd PhD CECS ANU 2017

Information Technology Background

Digital Equipment Corporation, Jostens Learning Corp, Wizard Information Services

Sector experience

Private enterprise, community sector, government and academia

Weblog: http://www.thephotographicalist.wordpress.com/
LinkedIn: http://au.linkedin.com/in/SabrinaCaldwell

Born here
ATLANTIC OCEAN
PACIFIC OCEAN
Gulf of Mexico
CANADA
MEXICO
WASHINGTON
OREGON
CALIFORNIA
IDAHO
NEVADA
MONTANA
WYOMING
UTAH
COLORADO
ARIZONA
NEW MEXICO
NORTH DAKOTA
SOUTH DAKOTA
NEBRASKA
KANSAS
OKLAHOMA
TEXAS
MINNESOTA
IOWA
MISSOURI
ARKANSAS
LOUISIANA
WISCONSIN
ILLINOIS
MICHIGAN
INDIANA
OHIO
KENTUCKY
TENNESSEE
MISSISSIPPI
ALABAMA
GEORGIA
FLORIDA
SOUTH CAROLINA
NORTH CAROLINA
VIRGINIA
WEST VIRGINIA
PENNSYLVANIA
NEW YORK
MAINE
VERMONT
NEW HAMPSHIRE
MASSACHUSETTS
CONNECTICUT
RHODE ISLAND
NEW JERSEY
DELAWARE
MARYLAND
ALASKA
HAWAII
CUBA
HAITI
DOMINICAN REPUBLIC
JAMAICA
BELIZE
THE BAHAMAS
TURKS AND CAICOS
PUERTO RICO
Bering Sea
Gulf of Alaska
Chukchi Sea
Beaufort Sea
PACIFIC OCEAN
Hawaiian Islands
TROPIC OF CANCER
ARCTIC CIRCLE
Rocky Mountains
Great Plains
Appalachian Mountains
Sierra Nevada
Cascade Range
Great Basin
Mississippi
Missouri
Rio Grande
Columbia
Snake
Colorado
Ohio
Tennessee
Lake Superior
Lake Michigan
Lake Huron
Lake Erie
Lake Ontario
St-Lawrence
Gulf of Mexico
Vancouver
Victoria
Seattle
Portland
SALEM
OLYMPIA
Spokane
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Reno
CARSON CITY
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Santa Fe
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Cheyenne
Omaha
Kansas City
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Atlanta
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Baltimore
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Québec
Minneapolis
Duluth
Milwaukee
Indianapolis
Columbus
Louisville
St. Louis
Kansas City
Miami
Tampa
Orlando
Jacksonville
New Orleans
Mexico City
Monterrey
Havana
Nassau
Anchorage
Fairbanks
Juneau
Honolulu
Kauai
Oahu
Maui
Hawaii
Aleutian Islands
Dutch Harbor
Nome
Barrow
Kodiak
Valdez
Tok
Whitehorse
Yellowknife
Edmonton
Calgary
Winnipeg
Regina
Saskatoon
Thunder Bay
Sault Ste Marie
Kingston
Ottawa
Montreal
Quebec City
Halifax
Fredericton
Moncton
Saint John
Charlottetown
St. John's
Iqaluit
Resolute
Baffin Island
Hudson Bay
Labrador
Newfoundland
Greenland
Iceland
Reykjavik
Azores
Bermuda
Hamilton
Nassau
Freeport
Grand Bahama
Andros
Eleuthera
Cat Island
San Salvador
Exuma
Long Island
Crooked Island
Acklins
Inagua
Great Inagua
Turks and Caicos
Providenciales
Grand Turk
Cockburn Town
Haiti
Port-au-Prince
Dominican Republic
Santo Domingo
Puerto Rico
San Juan
Jamaica
Kingston
Cuba
Havana
Matanzas
Cienfuegos
Santiago de Cuba
Camagüey
Holguín
Guantánamo
Bayamo
Las Tunas
Granma
Sancti Spíritus
Ciego de Ávila
Villa Clara
Cienfuegos
Matanzas
Mayabeque
Artemisa
Pinar del Río
Isla de la Juventud
Belize
Belmopan
Belize City
Guatemala
Honduras
El Salvador
Nicaragua
Costa Rica
Panama
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Maracaibo
Barquisimeto
Valencia
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Barcelona
Cumaná
Maturín
Puerto La Cruz
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Trinidad and Tobago
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Netherlands Antilles
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Georgetown
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Paramaribo
French Guiana
Cayenne
Ecuador
Quito
Guayaquil
Cuenca
Peru
Lima
Arequipa
Trujillo
Chiclayo
Piura
Iquitos
Cusco
Puno
Tacna
Ica
Huancayo
Ayacucho
Chimbote
Pucallpa
Tarapoto
Cajamarca
Huaraz
Abancay
Huancavelica
Moquegua
Tumbes
Amazonas
Loreto
Madre de Dios
Ucayali
Bolivia
La Paz
Santa Cruz
Cochabamba
Sucre
Oruro
Potosí
Tarija
Beni
Pando
Chuquisaca
Cochabamba
Oruro
Potosí
Tarija
Santa Cruz
Paraguay
Asunción
Ciudad del Este
Encarnación
Pedro Juan Caballero
Concepción
Villarrica
Caaguazú
Itapúa
Misiones
Ñeembucú
Paraguarí
Alto Paraguay
Boquerón
Presidente Hayes
Amambay
Canindeyú
Chile
Santiago
Valparaíso
Viña del Mar
Concepción
Antofagasta
Iquique
Arica
Temuco
Puerto Montt
Valdivia
Osorno
Coquimbo
La Serena
Rancagua
Talca
Chillán
Los Ángeles
Punta Arenas
Coyhaique
Aysén
Magallanes
Tierra del Fuego
Easter Island
Juan Fernández Islands
Argentina
Buenos Aires
Córdoba
Rosario
Mendoza
La Plata
San Miguel de Tucumán
Mar del Plata
Salta
Santa Fe
Santiago del Estero
Corrientes
Posadas
Resistencia
Neuquén
Bahía Blanca
Formosa
Comodoro Rivadavia
Río Gallegos
Ushuaia
Río Grande
Trelew
Rawson
Viedma
San Carlos de Bariloche
Esquel
Puerto Madryn
Catamarca
La Rioja
San Juan
San Luis
Jujuy
Chaco
Entre Ríos
Santa Cruz
Tierra del Fuego
Uruguay
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Rivera
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Tacuarembó
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Guarulhos
Campinas
São Luís
São Gonçalo
Maceió
Duque de Caxias
Natal
Teresina
Campo Grande
São Bernardo do Campo
Nova Iguaçu
João Pessoa
Santo André
Osasco
Jaboatão dos Guararapes
São José dos Campos
Ribeirão Preto
Uberlândia
Sorocaba
Contagem
Aracaju
Feira de Santana
Cuiabá
Joinville
Juiz de Fora
Londrina
Aparecida de Goiânia
Niterói
Ananindeua
Porto Velho
Serra
Caxias do Sul
Vila Velha
Florianópolis
Macapá
Vitória
Vitória da Conquista
Campina Grande
Santa Maria
Gravataí
Governador Valadares
Boa Vista
Petrolina
Blumenau
Caruaru
Petrópolis
Imperatriz
Mauá
Olinda
Piracicaba
Canoas
Pelotas
Caucaia
Pinhais
Rio Branco
Palmas
Anápolis
Foz do Iguaçu
Maringá
Ponta Grossa
Cascavel
Sobral
Chapecó
Itajaí
Criciúma
Jundiaí
Lages
Joinville
Santarém
Marabá
Parauapebas
Castanhal
Abaetetuba
Cametá
Barcarena
Tucuruí
Altamira
Paragominas
Itaituba
Oriximiná
Óbidos
Juruti
Monte Alegre
Alenquer
Prainha
Almeirim
Portel
Gurupá
Melgaço
Curralinho
Breves
Soure
Salvaterra
Ponta de Pedras
Cachoeira do Arari
Muaná
Ilha de Marajó
Tocantins
Araguaína
Gurupi
Porto Nacional
Paraíso do Tocantins
Colinas do Tocantins
Guaraí
Dianópolis
Miracema do Tocantins
Tocantinópolis
Augustinópolis
Araguatins
Xambioá
Wallis and Futuna
Mata-Utu
Futuna
Alofi
Niue
Cook Islands
Rarotonga
Avarua
Tokelau
Fakaofo
Nukunonu
Atafu
Samoa
Apia
American Samoa
Pago Pago
Tutuila
Aunu'u
Ofu
Olosega
Ta'u
Swains Island
Tonga
Nuku'alofa
Tongatapu
Eua
Ha'apai
Vava'u
Niuafo'ou
Niuatoputapu
Fiji
Suva
Viti Levu
Vanua Levu
Taveuni
Kadavu
Lau Islands
Lomaiviti
Rotuma
Vanuatu
Port Vila
Efate
Espiritu Santo
Malekula
Ambrym
Pentecost
Maewo
Aoba
Tanna
Erromango
Epi
Malo
Gaua
Ambae
Banks Islands
Torres Islands
New Caledonia
Nouméa
Grande Terre
Loyalty Islands
Lifou
Maré
Ouvéa
Huon Islands
Chesterfield Islands
Belep Islands
Isle of Pines
Walpole Island
Matthew and Hunter
Norfolk Island
Kingston
Burnt Pine
Norfolk Island National Park
Pitcairn Islands
Adamstown
Pitcairn Island
Henderson Island
Ducie Island
Oeno Island
French Polynesia
Papeete
Tahiti
Moorea
Bora Bora
Raiatea
Tahaa
Huahine
Taha'a
Rangiroa
Manihi
Fakarava
Tikehau
Makemo
Hao
Nuku Hiva
Hiva Oa
Tahuata
Fatu Hiva
Ua Pou
Ua Huka
Marquesas Islands
Tuamotu Archipelago
Gambier Islands
Rikitea
Mangareva
Austral Islands
Tubuai
Rurutu
Raivavae
Rapa
Rapa Nui
Hanga Roa
Easter Island
Kiribati
Tarawa
Bairiki
Betio
Abaiang
Abemama
Kuria
Aranuka
Nonouti
Tabiteuea
Beru
Nikunau
Onotoa
Arorae
Tamana
Banaba
Kiritimati
Tabuaeran
Teraina
Line Islands
Phoenix Islands
Kanton
Enderbury
Nauru
Yaren
Nauru
Tuvalu
Funafuti
Nanumea
Nanumaga
Niutao
Nui
Vaitupu
Nukufetau
Nukulaelae
Niulakita
Marshall Islands
Majuro
Ebeye
Arno
Jaluit
Kwajalein
Wotje
Ailinglaplap
Mili
Namu
Ailuk
Likiep
Utirik
Rongelap
Bikini Atoll
Enewetak
Ujelang
Micronesia
Palikir
Pohnpei
Kosrae
Chuuk
Yap
Ulithi
Woleai
Ifalik
Lamotrek
Satawal
Puluwat
Pulap
Nukuoro
Kapingamarangi
Palau
Ngerulmud
Koror
Peleliu
Angaur
Kayangel
Ngaraard
Ngarchelong
Ngiwal
Ngatpang
Ngchesar
Ngeremlengui
Aimeliik
Airai
Melekeok
Ngardmau
Ngaraard
Ngarchelong
Ngiwal
Ngatpang
Ngchesar
Ngeremlengui
Aimeliik
Airai
Melekeok
Ngardmau

Grew up here
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WASHINGTON
OREGON
CALIFORNIA
IDAHO
NEVADA
MONTANA
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UTAH
COLORADO
ARIZONA
NEW MEXICO
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SOUTH DAKOTA
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OKLAHOMA
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OHIO
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MISSISSIPPI
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VIRGINIA
WEST VIRGINIA
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NEW YORK
MAINE
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PACIFIC OCEAN
ATLANTIC OCEAN
Gulf of Mexico
MEXICO
ALASKA
HAWAII
CUBA
HAITI
DOMINICAN REPUBLIC
JAMAICA
BELIZE
THE BAHAMAS
CARIBBEAN SEA

Met Australian husband here
CANADA
WASHINGTON
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MONTANA
WYOMING
UTAH
ARIZONA
COLORADO
NEW MEXICO
NORTH DAKOTA
SOUTH DAKOTA
NEBRASKA
KANSAS
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TEXAS
MINNESOTA
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VIRGINIA
WEST VIRGINIA
PENNSYLVANIA
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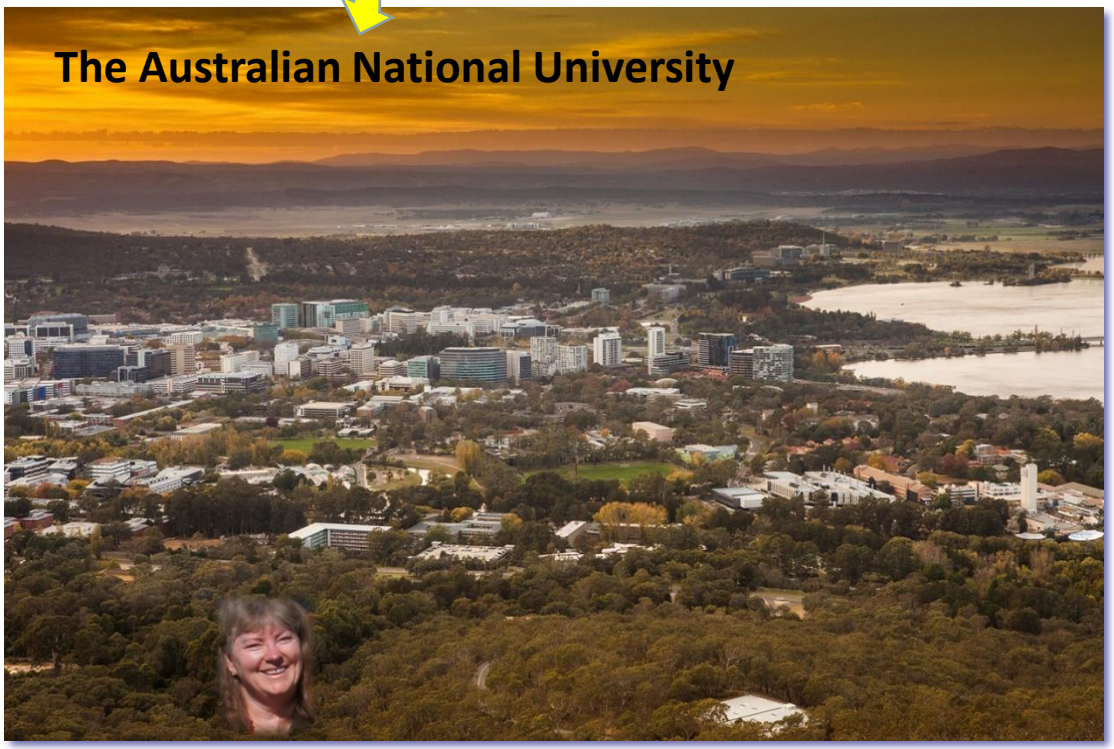
MAINE
PACIFIC OCEAN
ATLANTIC OCEAN
Gulf of Mexico
MEXICO
CUBA
THE BAHAMAS
CARIBBEAN SEA
JAMAICA
HAITI
DOMINICAN REPUBLIC
PUERTO RICO
BELIZE
ALASKA
CANADA
Bering Sea
Gulf of Alaska
Aleutian Islands
PACIFIC OCEAN
HAWAII
Hawaiian Islands
HONOLULU
TROPIC OF CANCER

Now I teach and research here

My Research & Teaching Areas

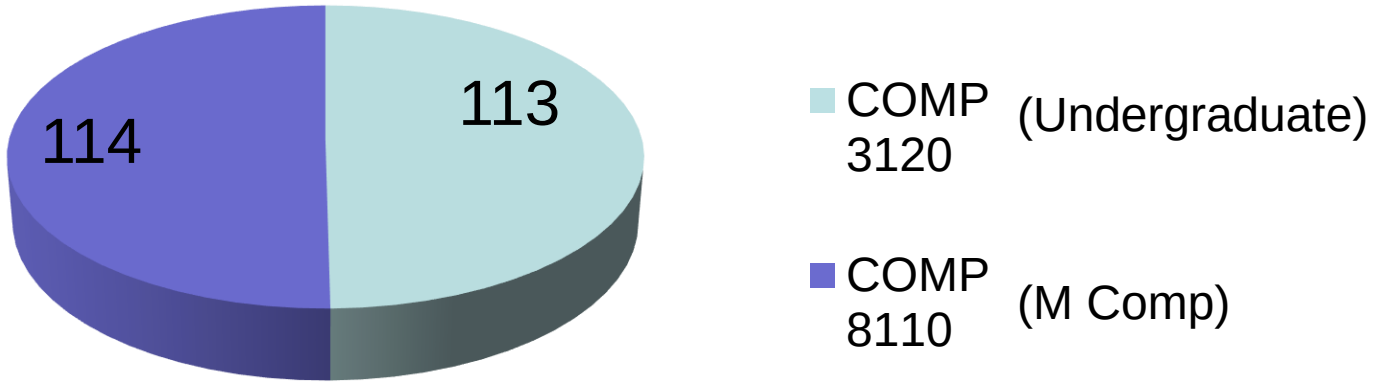
Software development management
Web development and design
Image credibility
AI and affective reasoning
Advances in higher education



Who are you?

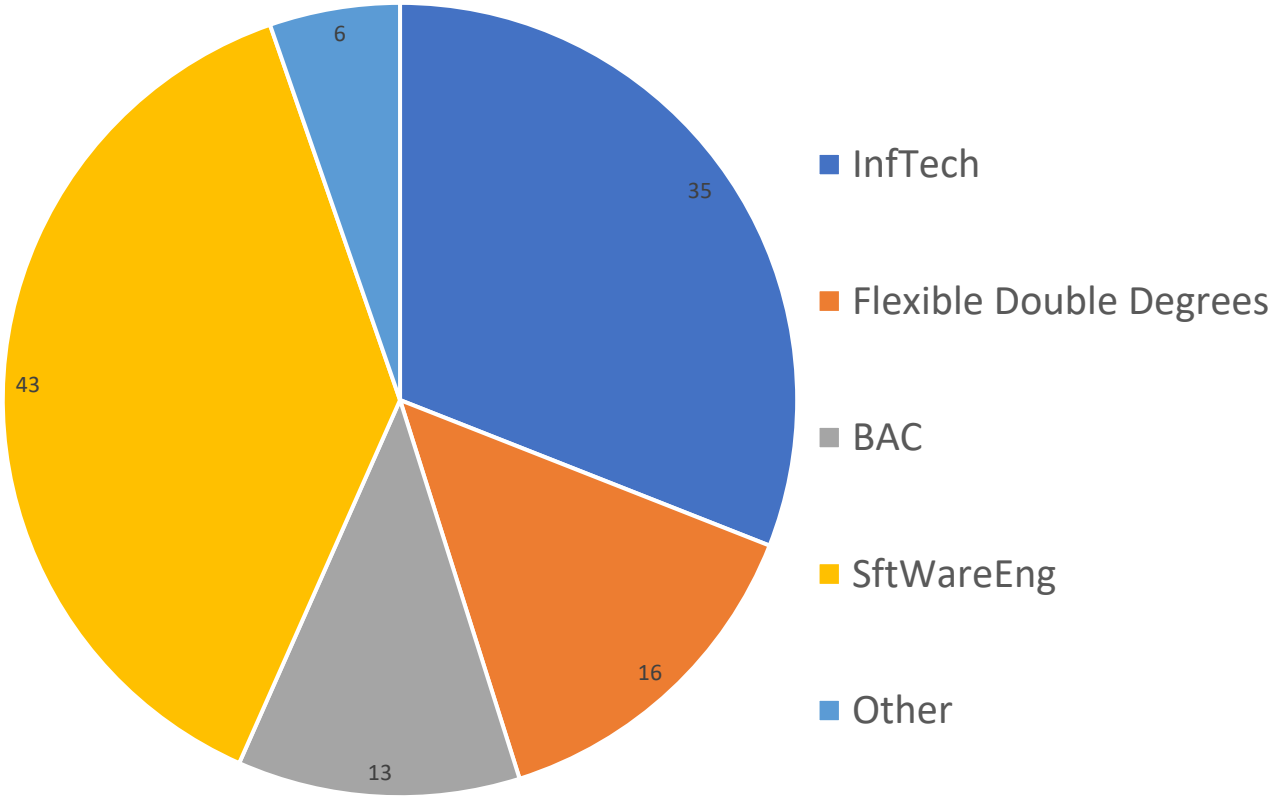
Who are you?

COMP3120 / COMP8110 = 227 students (so far)



Who are you?

COMP3120 = 113 students (so far)



Who are you?

More about you – a few poll questions

Wattle Course outline: course aims and outcomes

Key topics

- Leadership & Management
- Communication
- Project Context
- Project Management Body of Knowledge (PMBoK)
- Agile Project Management
- Project Planning
- Project Scope Management
- Time Management
- Quality & Risk Management
- Communication Management
- Project Governance

Wattle Course outline: course aims and outcomes

Specific Learning Outcomes

On successful completion, students will be able to:

- **identify and describe the impact different project contexts** will have upon all aspects of a **software development project**, including an understanding of the role **professional ethics** plays in the conduct of successful software development
- **distinguish** between the features of **traditional and agile approaches** to managing software development to **determine an appropriate project management approach** given a project's business context and scope
- demonstrate improved **teamwork** and **collaborative skills**

Graphic: http://cliparts.co/thinking-bubble-clip-art

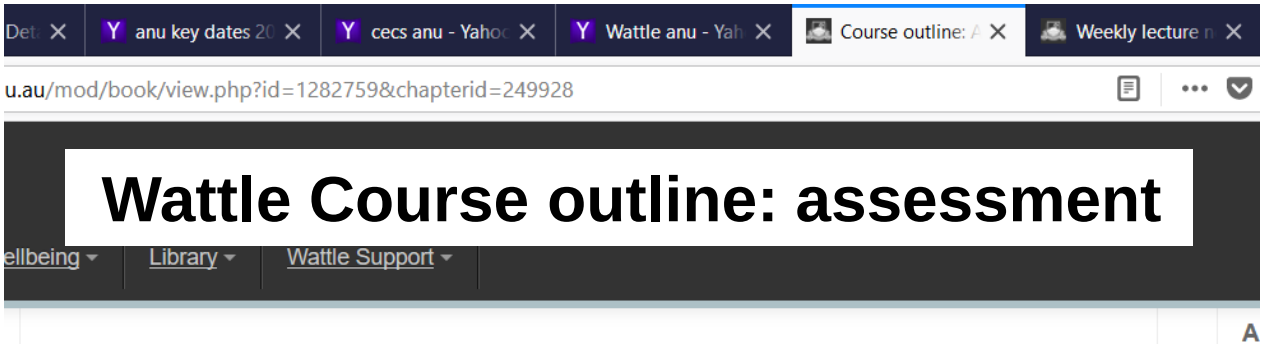
Wattle Course outline: course aims and outcomes

Specific Learning Outcomes

On successful completion, students will be able to:

- demonstrate through application, **knowledge of key project management skills**, such as **scope determination, decomposition, schedule creation and tracking,** and **estimation;** and **governance** including progress reporting, risk and quality management
- **formulate and defend an argument** through the use of **critical thinking** and **reflection**
- demonstrate an **ability to present and defend arguments** both orally and in writing

Graphic: http://cliparts.co/thinking-bubble-clip-art



Assessment Item	Percentage of total course marks
Assignments	**45%**
Workshop Participation	**10%**
Midterm Quiz	**10%**
Final Examination	**35%**

*Note that Comp8110 students will participate in the same assessment scheme, however will be marked to a higher standard. The final exam for Comp8110 students is also different and more extensive than for Comp3120 students..

Wattle Course outline: assessment

Assignments (Total of 45%)
Assignments will be completed in small groups of 5 students comprising attending and remote students. Groups will be drawn from tutorial groups for students who are present, and assigned for remote students without regard to the lecture slot. Students will work in the same groups for Assignments 1 & 2. New groups will be formed for Assignment 3.

Assignment 1 (10%)
Review of a research report on project management. Reports are due 5pm Week 5

Assignment 2 (15%)
Research report on an assigned topic related to the management of software development projects. Reports are due 5pm Week 7

Assignment 3 (20%)
Briefing paper and presentation of recommendations in response to a scenario. Reports are due 5pm Week 12

Wattle Course outline: assessment

Peer Assessment COMPULSORY SUBMISSION

As peer assessment is used to calculate individual marks **it is compulsory for all students to submit a peer assessment survey at the same time as submitting the assignment**.

Using Wattle students are required to provide a peer assessment of the contribution of each member of their team for **each assignment submission**.

Wattle Course outline: assessment

Workshop participation (10%)

In workshops you will usually be working with your assignment group.

Most workshops will commence with a short quiz that examines the content of the workshop preparation reading.

The quiz will be on-line and will be done together by the group as a shared result.

Individual workshop participation marks will be awarded as a combination of your quiz mark and your active contribution to the workshop. If you do not attend the workshop you cannot receive a mark for participation.

Wattle Course outline: assessment

Midterm Exam - 10%

Written examination during the official examination period at the end of the course

Final Exam - 35%

Written examination during the official examination period at the end of the course

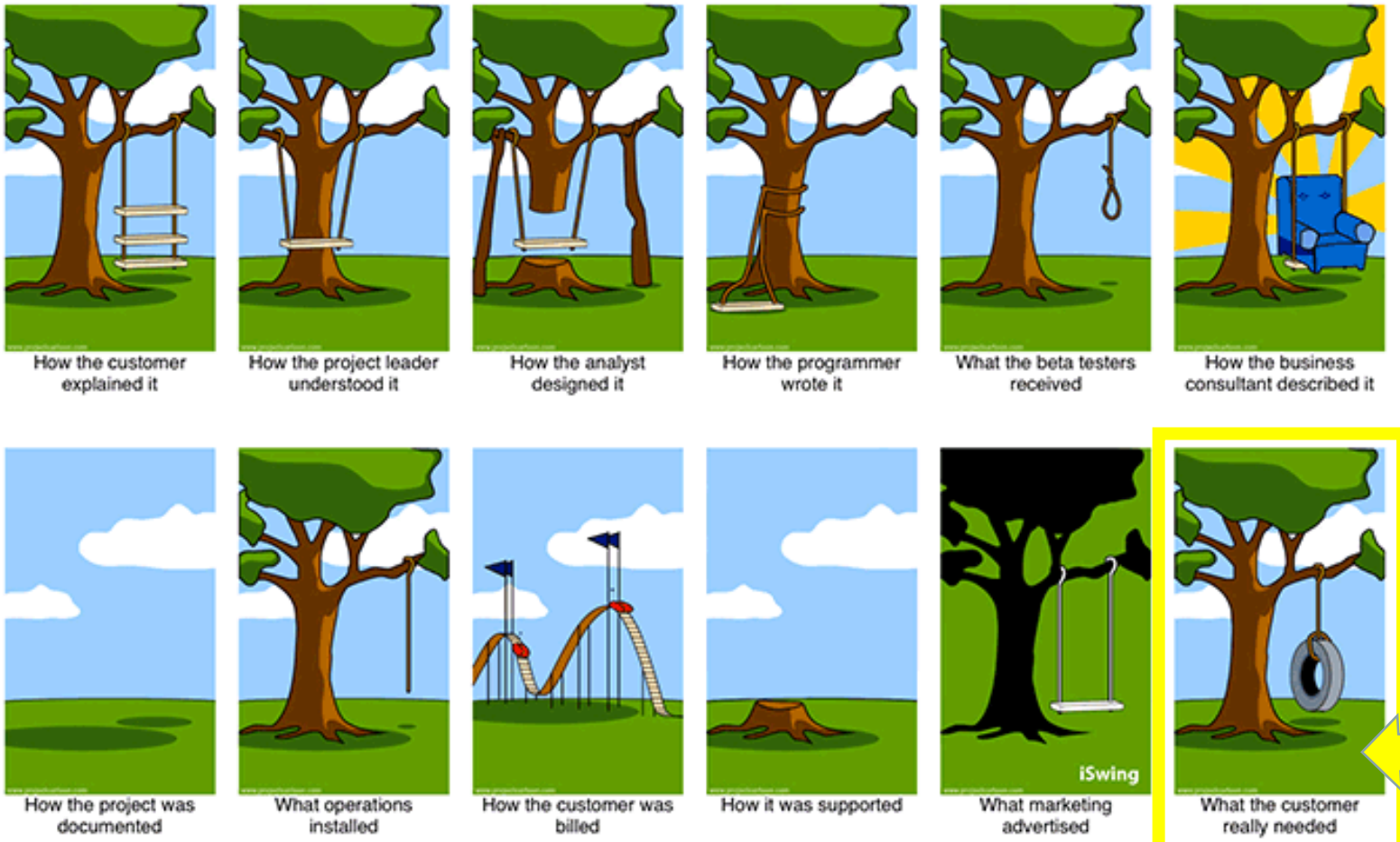
Requirements to pass the course -- hurdle assessment
To pass, students must achieve:

- greater than 50% overall, AND
- greater than 45% for the assignments, AND
- greater than 45% in the final exam

COMP3120/8110 Roadmap for Semester 1 2021

	Wk 1	Wk 2	Wk 3	Wk 4	Wk 5	Wk 6	Teaching Break	Teaching Break	Wk 7	Wk 8	Wk 9	Wk 10	Wk 11	Wk 12	Final Exam
Lectures	Intro to Course & Proj Mgmt	Critical Thinking & Teamwork & Academic Skills w/ ASLC	Leader-ship & Manage-ment	Project Initiation	Big Picture Planning & User Stories	User Stories & End-to-End Experience			User Story Maps & MVP	Velocity and Progress	Estimation & Planning Poker	Project Execution & Control	Mtgs & Reporting, Quality & Risk	Exam hints, Present-ations	
Workshops		1 Teamwork	2 BB, WS, Stakeholders	3 - ASLC Practical Report Writing		4 Writing User Stories				5 User Story Maps	6 Goal-driven Releases	7 Estimation	8 Iterations	Present-ations	
Assessment					Assign 1 10%		Midterm quiz 10%		Assign 2 15%					Assign 3 20%	Final exam 35%
Others	Participation in workshops – represents 10% of assessment Participation in experiments (this includes online experiments) provides a 5% final exam redeemable credit														

I'm here to lead us on a journey of learning to manage software development…



…so that you are better able to efficiently and harmoniously achieve this!