2015 Education Operational Plan: Key Points

• We identify and treat separately three different cohorts
  - Students specifically wanting to study computer science and/or software engineering
  - Students seeking to acquire some computing skills and/or exploring the discipline
  - Students in courses delivered specifically to BEng students

• BSEng: Minor changes
  - Will continue for so long as we have no alternative pathway that we can confidently offer. (We will consider alternatives in 2015)
  - Will continue to use the existing pathway for development of programming skills, i.e. COMP1100, 1110, 2100, 2130 etc, with some minor adjustment of material.

• BAC: Freeing up
  - Will maintain alignment with BSEng in terms of development of programming skills but students will not be required to progress so far (until COMP2130).
  - Will have fewer mandated courses to allow students to take more electives (also provides better product differentiation from BSEng)
  - Will have simplified set of majors, minors and specializations
  - Will continue to cater for exceptional students through the BAC(R&D) stream

• BIT: Initiate a new programming pathway
  - Will offer students both an Art and a 1100 pathway

• COMP2600 (Formal Methods for Software Engineering): will continue to run for 1-2 years, but will be dropped as formal requirement from all our degrees. It will be replaced by logic course and re-jigging the content of other courses.

• COMP1730 (Programming for Scientists): Will become purely a service course for BEng students (possible ENGN code like ENGN2219).

Programming Streams

<table>
<thead>
<tr>
<th>Programming Streams</th>
<th>Year 1</th>
<th>Year 2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Semester 1</td>
<td>Semester 2</td>
</tr>
<tr>
<td>BSEng/BAC/R&amp;D</td>
<td>COMP1100/1130 (R&amp;D plus self select)</td>
<td>COMP1140</td>
</tr>
<tr>
<td>Pre-req</td>
<td>Math Methods or above</td>
<td>COMP1130 or COMP1100 with CR+</td>
</tr>
<tr>
<td>BIT as above OR</td>
<td>Art (COMPXXXX &amp; VCU2XXX)</td>
<td>Craft (COMP1140)</td>
</tr>
<tr>
<td>Pre-req</td>
<td>Open Entry, but Art or COMP1100 recommended</td>
<td>Craft or COMP1100</td>
</tr>
<tr>
<td>BEng</td>
<td>COMP1730</td>
<td>ENGN2219</td>
</tr>
<tr>
<td>Pre-req</td>
<td>Enrolment in BEng</td>
<td>COMP1730</td>
</tr>
</tbody>
</table>

Enrolment Targets (2016)

- 1100/1140: >150
- Art/Craft/6700: >100
- COMP1730/ENGN2219: 150-250

Bachelor of IT Rules

- Art or COMP1100 or COMP1130
- Craft+COMP6700 or COMP1140
Bachelor of Advanced Computing & Discovering Engineering (ENGN1211)

ENGN1211 (http://eng.anu.edu.au/courses/info/ENGN1211) is currently required course in BAC. Options are

- Keep ENGN1211 as core requirement
- Offer students either ENGN1211 OR Art of Computing
- Just drop ENGN1211

The Logic Course (COMP2620)

This could easily be re-badge at 1000 level and offered to students in S1 of Y1. This is of interest to Philosophy, but has to be considered carefully in terms of space in degree programs for another level 1000 course.

Majors/Minors/Specialisations

See http://www.anu.edu.au/directories/university-glossary

<table>
<thead>
<tr>
<th>Major</th>
<th>A set of related courses which are constructed for students to achieve specified learning outcomes and require the completed of 48 units.</th>
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<td>Majors can be in a single discipline (eg mathematics), or multi-disciplinary (eg corporate sustainability). Majors exist independently of programs but may be referred to by the requirements of a specific plan. Majors are available only to undergraduate plans and listed on academic transcripts but not on testamurs.</td>
</tr>
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| Minor      | A set of related courses which are structures for students to achieve specific learning outcomes. A minor requires the completed of 24 units. Minors can be in a single discipline (eg mathematics) or multi-disciplinary (eg corporate sustainability). Minors exist independently of programs but may be referred to by the requirements of a specific plan. Minors are available only to undergraduate plans and are listed on academic transcripts but not on testamurs. |

| Specialisation(ug) | A University approved sequence of advanced courses that requires the completion of 24 units and which must be completed in conjunction with a specific Major or as a specified requirement within a degree. |

We reduce our offering to 5 core majors as follows:

- Computational Foundations (Name? Maybe CS Theory?)
- Software Development
- Computer Systems
- Data Science (NEW)
- Information Systems (largely external through CBE)

In addition we offer a university wide major in “computing” (name?) with following requirements:

- 8 COMP courses, no more 2 at 1000 level, and at least 3 at 3000 level or above.

We consider minors, but only in so far that they are a meaningful subset of a major.

We treat specialisations as 4 courses of level 3000 or above, with the aim of developing a number of specialisations. (These are expected to have some overlap into a revamped masters programs. The need to link these to majors or degrees is unclear.) Possible candidates include

- Intelligent systems/AI
- Human centric computing
- Cybersecurity
- ?
Need to specify 48 units of AQF Level 8 courses in all Honours programs (ANU Requirement from 2016)

**BSEng**

COMP4500A or COMP4540A  
COMP4500B or COMP4540B  
COMP4xxxA or COMP4540C  
COMP4xxxB or COMP4540D  

/* Needs modification to the requirements to insist on 12u of comp4xxx instead of 12u of comp3xxx/comp4xxx, for those students that do comp4500 */

COMP4130  
COMP3530 (modified to cover AQF8)  
ENGN3230 (from the Engineering proposal)  

COMP3120 (modified to cover AQF8. Engineering is proposing something similar for ENGN3221) OR replace this with 4xxx equivalent of COMP8110  

**BAC**

COMP3530 (modified to cover AQF8)  
COMP3600 (modified to cover AQF8)  
COMP3630  

COMP4550 or  
COMP4560 and 12 units of 4000-level COMP  

COMP3120 (modified to cover AQF8) or  
MGMT3027 (looks like AQF8)  

**BAC(R&D)**

COMP3530 (modified to cover AQF8)  
COMP3630  
COMP3550 (12u R&D project - small teams)  
COMP4550 (24u research project - individual)
BIT: Inclusion of Art and Craft in the program

- BIT: Initiate a new programming pathway
  - Will offer students both an Art and a 1100 pathway

A proposed pathway

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Modification to Bachelor of IT Requirements

- Art or COMP1100 or COMP1130
- Craft+COMP6700 or COMP1140 (comp1140 to include relevant material from Craft)

Implications

- For double degree students that do a major, this will leave them with no free electives.
Research School of Computer Science

Course Conveners Meeting

28 August 2015

12.00 – 1.30 (N101)

Chair: Ramesh Sankaranarayana, Associate Director (Education)

MINUTES

1. Apologies: Tom Worthington, Tom Gedeon, Raj Gore

   Attendance: Shayne Flint, Uwe Zimmer, Jochen Trumpf, Peter Christen, Steve Blackburn, Eric McCreath, Steve Gould, Patrik Haslum, Ramesh Sankaranarayana, Mark Reid, Jeremy Dawson, Qing Wang, John Slaney, Bindi Mamouney

2. Agenda Items

   2.1 Updates to Academic Misconduct Procedure (Associate Dean Education)

   • A change in ANU policy has led to some changes in how CECS handles cases of poor academic practice and academic misconduct.
   • CECS email templates must be used for communicating with students suspected of misconduct.
   • All emails should be cc’d to CECS Student Services, to ensure that the process is being correctly followed.
   • Convenors must send an email (using the CECS email template) to a student before having a meeting or discussion with them regarding academic misconduct.
   • Convenors need to be able to make a judgement on whether the offence is noted as ‘poor academic practice’ or ‘academic misconduct’. Student Services will advise after the first email is sent by the convenor if it is a repeat offence. Students who already have one poor academic practice recorded will automatically have their next offence dealt with as academic misconduct.
   • It is important that all assignments submitted use a correct cover sheet.
• If there is any doubt, please consult Jochen Trumpf or the CECS Student Services team.

2.2 Interim Grade Definition and Appropriate Application (Associate Dean Education)
• Interim grades are defined as grades that will be replaced by a final grade. These are given when a student has an approved extension to submit an item of assessment. These grades are DA or PX.
• Unresolved grades are defined as where the academic needs more time to finalise the grade. This is an RP.
• A KU is only awarded in a course that is ongoing in the next semester.
• When a grade falls between 45 and 49%, a supplementary exam must be offered unless they have failed a hurdle requirement.
• The NCN grade is complicated and advice should be sought on when to use it.

2.3 Tutoring Code of Practice
• Convenors were advised that this document relates not only to tutors but also to convenors.
• It was recommended that having a PDF in an archive is not helpful and a central location would be better. Ramesh will look at this once Drupal is being used.

2.4 SRC Report (Associate Director Education)
• Ramesh will send emails to each convenor regarding feedback from the SRC for their course. It was mostly positive feedback.
• Suggestions were sought on how to best close the loop for the SRC in providing feedback to them. Possibly providing a slide at the next lecture.

Action: Ramesh to email course convenors

3. Other Business
Year Coordinator Meetings
It was suggested that RSCS restart the year level course coordinator meetings that ran several years ago. Steve Blackburn described how they fostered an understanding of what is taught in other courses, provided help in critiquing
exams and assignments, exchanging ideas and coordinated assessment deadlines.

It was agreed that it would be useful in ‘rebooting’ communication between academics and their courses.

Action: Ramesh to schedule the meetings

4. Date of the next meeting

    TBA