NOTICE OF MEETING

Meeting 2019/4 of the Undergraduate Studies Committee will be held at 10 am on Tuesday 25 June 2019 in the Level 5 Function Room, Administration Building F23. The agenda for the meeting is below.

Dr Glenys Eddy
Committee Officer

AGENDA

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5 STRATEGIC ITEMS

5.1 Education Portfolio: Exploring Admission Requirements for Honours
   Peter McCallum attached

5.2 Academic Board Emerging Risk Discussion
   Tony Masters attached

6 ITEMS FOR NOTING

No items for noting have been received

7 OTHER BUSINESS

7.1 Any Other Business
   Chair

   Next Meeting:
   10.00 am – 12:00 pm, Tuesday 13 August 2019
   Level 5 Function Room, F23 Administration Building

TERMS OF REFERENCE

PURPOSE

The Undergraduate Studies Committee assists the Academic Board in ensuring the maintenance of the highest standards and quality in teaching, learning and scholarship at the University of Sydney. It advises the Academic Board about resolutions, policy and procedures relating to undergraduate study at the University and determines undergraduate matters, including the approval of new and amended courses, in accordance with the University of Sydney (Delegations of Authority – Academic Functions) Rule 2016.

TERMS OF REFERENCE

1. To advise the Academic Board on resolutions, policy and procedures relating to all undergraduate studies in the University, including the pattern of undergraduate award courses.

2. To make recommendations to the Academic Board about proposals to introduce new undergraduate award courses and amendments to existing undergraduate award courses.

3. To make recommendations to the Academic Board about requirements to be satisfied by candidates for the award of a degree, diploma or certificate.

4. To determine procedures for the consideration, and deadline for submission of proposals for new and amended undergraduate award programs and courses in consultation with the University Executive Curriculum and Course Planning Committee.

5. To provide academic oversight in relation to domains 1.4.1; 1.4.2, 3.1.1, 3.1.2, 3.1.3; 3.1.4; 3.1.5; 5.1.2; 5.1.3, 5.4.2 and 6.3.2(c) of the Higher Education Standards Framework (Threshold Standards) 2015.

6. To ensure undergraduate education is compliant with appropriate rules, policies and procedures, including, but not limited to the:
   - University of Sydney (Coursework) Rule 2014
   - Coursework Policy 2014
   - Assessment Procedures 2011
   - Learning and Teaching Policy 2015
   - Learning and Teaching Procedures 2016
   - Academic Honesty in Coursework Policy 2015
   - Academic Honesty Procedures 2016.
7. To contribute to the development of the University’s strategic objectives in relation to undergraduate study and to formulate, recommend to the Academic Board, and regularly review resolutions, policy and procedures supporting those strategic objectives.

8. To receive reports from, and provide advice to, the Deputy Vice-Chancellor (Education) and, where appropriate the Pro-Vice-Chancellor (Global Engagement) on quality assurance and other matters relating to undergraduate study.

9. To obtain information or reports from any Faculty, University School, Board of Studies, school or department, the Library or other academic unit on academic matters relating to undergraduate studies.

10. To ensure proper communication channels are established with other committees of the Academic Board and the University Executive to promote cross-referencing and discussion of matters concerning undergraduate students.

11. To determine the terms and conditions of undergraduate awards, scholarships and prizes established within the University.

12. To receive annual reports on the awarding of Honours and the University Medal from Faculties, University Schools and Boards of Studies.

13. To provide regular reports on its activities to the Academic Board.

14. To consider and report on any matter referred to it by the Academic Board, or its committees, the University Executive or the Vice-Chancellor.
MINUTES

1 WELCOME AND APOLOGIES

The Chair welcomed members and attendees to the meeting, extending a special welcome to new Academic Board student representative, Sean Perry. The Chair also thanked Dr Stephen Carter for acting as Chair for the previous meeting, and noted the apologies received.

Resolution USC2019/3-1
That the Undergraduate Studies Committee resolved to accept the apologies received as recorded above.

2 PROCEDURAL MATTERS

2.1 Minutes of Previous Meeting 2019/02, 19 March 2019

The Committee accepted the minutes of the meeting held on 19 March 2019 as a true record of the meeting’s business.

Resolution USC2019/3-2
That the Undergraduate Studies Committee resolved that the minutes of meeting 2019/02, held on 19 March 2019, be confirmed as a true record of that meeting.

2.2 Actions Arising

No actions arising from previous business were raised for comment.

Resolution USC2019/3-3
That the Undergraduate Studies Committee resolved to note that no actions arising from previous business were raised for comment.

3 STANDING ITEMS

3.1 Report of the Chair

The Chair reported on an item from the most recent meeting of the UE Student Life Committee, which endorsed the introduction of enriched transition support, to be piloted in 2020 and to commence in 2021. She noted that this project will require a significant amount of work to

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implement. The transition piece will likely be reasonably generic, but bespoke for how it will work in different degrees.

The Committee Officer undertook to circulate the paper on Enriched Transition Support that was considered at the UE Education Committee at its meeting on 6 May.

Resolution USC2019/3-4
That the Undergraduate Studies Committee resolved to note the report of the Chair.

3.2 Report of the Academic Board

In addition to the Academic Board’s written report, Associate Professor Masters reported that the University’s TEQSA registration has been renewed for seven years ‘without comment’. In its review of the University’s governance structures and the work of the Academic Board, TEQSA commented favourably on the embedding of the Higher Education Framework in our committees’ Terms of Reference. In an external review of the University’s sexual assault policy, it was requested that reference be made to the student experience.

Resolution USC2019/3-5
That the Undergraduate Studies Committee resolved to note the report of the Academic Board meeting of 16 April 2019.

3.3 Report of the Board of Interdisciplinary Studies

The Committee noted the report of the Board of Interdisciplinary Studies, where an incorrect degree name in Recommendation 3 needed correction. No other comment was offered.

Action for Committee Officer
To correct the title of the degree being amended in Recommendation (3), form the Bachelor of Science/Bachelor of Advanced Studies, and Bachelor of Advanced Studies to the Bachelor of Advanced Studies only.

Resolution USC2019/3-6
That the Undergraduate Studies Committee resolved to note the report of the Board of Interdisciplinary Studies meeting on 10 April 2019.

4 ITEMS FOR ACTION

MAJOR COURSE PROPOSALS

No major course proposals were submitted for this meeting.

MINOR COURSE PROPOSALS

Minor Course Proposals Endorsed by Board of Interdisciplinary Studies 10 April 2019

4.1 Architecture, Design and Planning: Bachelor of Design Computing/Bachelor of Advanced Studies

Associate Professor Anderson presented the proposal to amend the Bachelor of Design Computing/Bachelor of Advanced Studies, consisting of three amendments: to apply consistent use of terminology in the resolutions, to convert Tables A and B in this award course into Table A only, and to add one 6 credit-point ICPU unit.

It was noted that the use of the term ‘school’ needed clarification as the School of Architecture, Design and Planning has no schools within it. The reference to Honours was thought to need revision as the current wording suggested it was separate from the degree. It was agreed that the Chair, Associate Professor Masters and Associate Professor McCallum would review and recommend amendments to the wording of the course resolutions.

This proposal was endorsed for submission to Academic Board conditional upon completion of the following amendments. The Chair, A/Prof. Masters and A/Prof. McCallum to review the course resolutions to clarify and re-draft Section 4, Cross-Faculty Management. The wording in clauses (2) with respect to Honours, and (3) with respect to ‘the school’ providing the academic governance needs revision. The reference to Honours in (2) suggests it is a separate degree, and the reference to school in (3) is confusing as Architecture, Design and Planning has no schools within it.
Resolution USC2019/3-7
That the Undergraduate Studies Committee recommends that Academic Board:
(1) approve the proposal from the Sydney School of Architecture, Design and Planning to amend the Bachelor of Design Computing and the Bachelor of Design Computing/Bachelor of Advanced Studies; and
(2) approve the amendments to the Course Resolutions and Units of Study Table arising from the proposal,
with effect from 1 January 2020.

4.2 Architecture, Design and Planning: Bachelor of Advanced Studies, Design major
Associate Professor Anderson presented the proposal to amend the Design major within the Bachelor of Advanced Studies, outlining the nature of the changes proposed. The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-8
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Sydney School of Architecture, Design and Planning to amend the Major in Design for the Bachelor of Advanced Studies, and
(2) approve the amendments to the Unit of Study Table arising from the proposal,
with effect from 1 January 2020.

4.3 Architecture, Design and Planning: Bachelor of Advanced Studies, Biological Design major
Associate Professor Anderson presented the proposal to amend the Biological Design major, which consisted of title changes to two units and some prerequisite changes. The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-9
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Sydney School of Architecture, Design and Planning to amend the Major in Biological Design for the Bachelor of Advanced Studies; and
(2) approve the amendments to the Unit of Study Table arising from the proposal,
with effect from 1 January 2020.

4.4 Business: Bachelor of Commerce/Bachelor of Advanced Studies
Ms Hecimovic presented the proposal to implement the 4000-level coursework pathway into the Bachelor of Commerce/Bachelor of Advanced Studies for 2020. During discussion it was established that the proposed amendments will not result in changes to the course resolutions. Associate Professor McCallum clarified that for the liberal degrees, care is being taken to ensure that the prerequisites are appropriate for the Year 4 pathways rather than over-defining the pathways. The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-10
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Sydney Business School to introduce an Advanced Coursework (non-Honours) pathway in Business for students enrolled in the Bachelor of Advanced Studies;
(2) approve the proposal for existing Honours pathways to be embedded in the Bachelor of Advanced Studies; and
(3) approve the amendment of unit of study tables arising from the proposal,
with effect from 1 January 2020.

4.5 Arts and Social Sciences: Bachelor of Arts and Bachelor of Arts/Bachelor of Advanced Studies; Bachelor of Economics and Bachelor of Economics/Bachelor of Advanced Studies (Environmental and Resource Economics major)
Associate Professor Dracopoulos presented the proposal to amend the Environmental and Resource Economics major to correct an omission from Tables A and S for this major, namely, the 12 credit points of 3000 level core units. After confirmation that although the deadline for proposals for a 2020 implementation has passed, necessary structural change builds for 2020 can be accommodated by the Academic Model Team, the Committee endorsed the proposal for submission to Academic Board.
Resolution USC2019/3-11
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Faculty of Arts and Social Sciences to amend the Bachelor of Arts/Bachelor of Advanced Studies, and the Bachelor of Economics/Bachelor of Advanced Studies; and
(2) approve the amendment of the Unit of Study tables arising from the proposal, with effect from 1 January 2020.

Minor Course Proposals from Faculties and University Schools

4.6 Arts and Social Sciences: Bachelor of Arts and Bachelor of Arts/Bachelor of Advanced Studies (Table A)
Associate Professor Dracopoulos presented the proposal to amend Table A for the Bachelor of Arts/Bachelor of Advanced Studies, outlining the nature of the changes involved: the addition of new units to existing majors, the inclusion of the Visual Arts major in Table A and the Criminology major in Tables A and S, and minor updates to the requirements for several majors. During discussion, the following was noted:

• Confirmation was needed from the Academic Model Team that new versions of some majors, resulting from some credit-point changes, can be built in the system.
• Some pathways for the majors, for instance the introductory and advanced pathways for the Indonesian major, are yet to be built. Edwina Grose confirmed that these different pathways for all of the languages will be built given some more time.

Japanese Studies major
Associate Professor McCallum noted that in its current form, the Japanese Studies major was not compliant with the definition of a major according to the Learning and Teaching Policy (4 (d) (iii)), whereby a major must have a minimum of 18 credit points and a maximum of 24 credit points at 3000-level for a 144-credit point degree. The potential existed for a student to complete their degree with a non-compliant major, and similarly students in other degrees would be at risk if completing this major in this form. As not enough units existed to enable a student who began in 2018 to complete in 2020, it was decided to add two new units to the major, achievable as all of those units in the table struck-through for deletion could be re-pressed into service.

This proposal was endorsed for submission to Academic Board ‘in principle’ with all majors being compliant with the Learning and Teaching Policy (Clause 4 (d) (iii)). Its endorsement is conditional upon the presentation of the Japanese major as compliant.

The Chair, A/Prof. Masters and A/Prof. McCallum to review the major with a view to adding two more units to ensure compliance with policy.

Resolution USC2019/3-12
That the Undergraduate Studies Committee recommend that the Academic Board:
(1) approve the proposal from the Faculty of Arts and Social Sciences to amend the Bachelor of Arts and Bachelor of Advanced Studies; and
(2) approve the amendment of the unit of study arising from the proposal, with effect from 1 January 2020.

4.7 Arts and Social Sciences: Faculty Resolutions minor amendment
Associate Professor Dracopoulos presented the proposal to amend the Faculty Resolutions to provide a clearer description of and formula for calculation of the University WAM than that currently given. The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-13
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Faculty of Arts and Social Sciences to amend its Faculty Resolutions; and
(2) approve the amendment of the Resolutions arising from the proposal, with effect from 1 January 2020.

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4.8 Nursing, and Arts and Social Sciences: Bachelor of Arts/Master of Nursing

Stuart Skene presented the proposal to remove the requirement of a minor in the Bachelor of Arts. Academic Model Team can ensure students will no longer see the minors in their buckets, solving completion problems for students.

This proposal was endorsed for submission to Academic Board conditional upon the typographical emendation of Section 7, Requirements for Award, (4) (a). The statement, 96 credit points specified in 6 (3) (a)-(d), needs correction to (6)(7) (3) (a)-(d).

This proposal was endorsed for submission to Academic Board conditional upon the typographical emendation as outlined above.

Resolution USC2019/3-14
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Faculty of Arts and Social Sciences to amend the Bachelor of Arts/Master of Nursing; and
(2) approve the amendment of the Course Resolutions arising from the proposal, with effect from 1 January 2020.

4.9 Engineering: Bachelor of Project Management Resolutions

Associate Professor Valix presented the proposal to amend the Bachelor of Project Management course resolutions, the purpose of which is to prevent those students enrolled in this degree from enrolling in the Project Management major in Table S. During discussion Christine Lacey clarified that it is problematic finding enough units for the three students remaining in the Project Management major to undertake in order to complete their degree. One solution might be to grant these students special permission to complete extra electives.

The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-15
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Faculty of Engineering to amend the Bachelor of Project Management; and
(2) approve the amendment of the course resolutions arising from the proposal, with effect from 1 January, 2020.

4.10 Engineering: Bachelor of Advanced Computing Resolutions

Associate Professor Valix presented the proposal to amend the Bachelor of Advanced Computing course resolutions, to change the requirements for Honours and to make explicit that a second major from Table A is permitted. The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-16
That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from the Faculty of Engineering to amend the Bachelor of Advanced Computing; and
(2) approve the amendment of the course resolutions and unit of study tables arising from the proposal, with effect from 1 January 2020.

4.11 Engineering: Bachelor of Engineering (Honours) (Civil Engineering)

Associate Professor Valix presented the proposal to amend the Bachelor of Engineering (Honours) (Civil) by to adding the new unit CIVL4010 Major Industrial Project to the core unit table for the Civil stream. 24 credit-point industrial project units enable students to complete their theses in industry. In the future, these units will come under the one umbrella. It was observed that adding 12 credit-points of these units to a 36 credit-point degree core will increase the core to 48 credit points. Associate Professor Valix clarified that for those students who undertake the Major Industrial Placement, the 24 credit-point unit will replace the 12 credit points of core thesis units and 12 credit points of specialist electives.

During discussion of matters related to CRICOS compliance and eligible work requirements, it was confirmed that the Industrial Placement is optional, meaning that the degree will not need a

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change of CRICOS code, and that international students are eligible to apply for the Engineering Sydney Industry Placement Scholarships (ESIPS).

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-17**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Engineering to amend the Bachelor of Engineering (Honours); and
2. approve the amendment of the table of Units of Study arising from the proposal, with effect from 1 January 2020.

### 4.12 Health Sciences: Bachelor of Applied Science (Exercise Physiology); Bachelor of Applied Science (Exercise and Sport Science)

Associate Professor Edwards presented the proposal to amend the Bachelor of Applied Science (Exercise Physiology) and Bachelor of Applied Science (Exercise and Sport Science). The proposed amendments, including changes to core units, are part of ongoing curriculum development to optimise alignment of new units of study with course and component learning outcomes as well as the ESSA standards.

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-18**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Health Sciences to amend the Bachelor of Applied Science (Exercise Physiology) and the Bachelor of Applied Science (Exercise and Sport Science); and
2. approve the amendment of the tables of units of study arising from the proposal, with effect from 1 January 2020.

### 4.13 Health Sciences: Bachelor of Applied Science (Exercise Physiology); Bachelor of Applied Science (Exercise and Sport Science); Bachelor of Applied Science (Physiotherapy); Bachelor of Health Sciences

Dr Edwards presented the proposal to amend the Bachelor of Applied Science (Exercise Physiology; Exercise and Sport Science; Physiotherapy) and the Bachelor of Health Sciences. The amendment consists of replacing the existing 2000-level EXSS2025 Motor Control and Learning with the 3000-level EXSS3062 Motor Control and Learning, to support the new structure of the Human Movement major and the Exercise and Sport Science, and Exercise Physiology versions of the Bachelor of Applied Science.

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-19**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Health Sciences to amend the Bachelor of Applied Science (Exercise Physiology); Bachelor of Applied Science (Exercise and Sport Science); Bachelor of Applied Science (Physiotherapy); Bachelor of Health Sciences; and
2. approve the amendment of the tables of units of study arising from the proposal, with effect from 1 January 2020.

### 4.14 Law: Bachelor of Laws

Dr Walton presented the proposal to amend the Bachelor of Laws by the addition and deletion of compulsory and elective units.

During discussion, two matters were raised for clarification:

- Associate Professor McCallum suggested that, in the interest of encouraging common and policy-compliant use of language, Law consider using the term ‘core’ rather than ‘compulsory’.
- Associate Professor Masters requested clarification concerning how the contribution of the 0 credit point research units toward the student’s fulfilment of the completion requirements is expressed in the course resolutions. He requested that both the course resolutions and the unit table be amended if need be to include this.

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This proposal was endorsed for submission to Academic Board conditional upon an amendment of the LLB course resolutions include the satisfactory completion of research units worth zero credit points.

**Resolution USC2019/3-20**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Sydney Law School to amend the Bachelor of Laws; and
2. approve the amendment of the Unit of Study Tables arising from the proposal, with effect from 1 January 2020.

**4.15 Medicine and Health (Pharmacy): Bachelor of Pharmacy; Bachelor of Pharmacy (Honours); Bachelor of Pharmacy and Management; Bachelor of Pharmacy and Management (Honours)**

Associate Professor Wheate presented the proposal to amend the Bachelor of Pharmacy, and Bachelor of Pharmacy and Management, and their Honours variations, based on advice that the majors for these degrees were no longer compliant with the definition of a major according to the University's *Glossary of Terms and Abbreviations* and should be amended to Electives.

Some disagreement between the requirements as stated at the top of the degree table and those stated in the degree resolutions was observed.

This proposal was endorsed for submission to Academic Board conditional upon resolution of the contradiction between the requirements stated at the top of the degree table and in the course resolutions under 4, Requirements for Award (the unit table gives more specific unit completion requirements).

**Resolution USC2019/3-21**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Medicine and Health to amend the Bachelor of Pharmacy; Bachelor of Pharmacy (Honours); Bachelor of Pharmacy and Management; Bachelor of Pharmacy and Management (Honours); and
2. approve the amendment of the Course Resolutions and Unit of Study tables arising from the proposal, with effect from 1 January 2020.

**4.16 Science: Bachelor of Science/Bachelor of Advanced Studies Table A**

Dr Muscatello presented the proposal to amend Table A majors for the Bachelor of Science/Bachelor of Advanced Studies. Amendments included adding new and existing units to enhance curricula, to restructure tables to enrich breadth and/or depth at specific levels, and to increase accessibility of majors and double majors.

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-22**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Science to amend the Bachelor of Science, and the Bachelor of Science/Bachelor of Advanced Studies; and
2. approve the amendment of the unit of study tables arising from the proposal, with effect from 1 January 2020.

**4.17 Science: Bachelor of Science Table 1 major changes for 2019**

Dr Muscatello presented the proposal to amend the majors in Table 1 of the Bachelor of Science for a 2019 implementation. The amendment consisted of replacing units that have been retired/cancelled in 2019 with new units, to allow students to complete these majors. The changes were actioned earlier in the year, and the affected students were notified. The Faculty is seeking retrospective endorsement for these necessary changes.

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-23**

That the Undergraduate Studies Committee recommend that the Academic Board:

1. approve the proposal from the Faculty of Science to update the Bachelor of Science; and
2. approve the amendment of the unit of study tables for the Table 1 majors (pre-2018) tables,
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4.18 **Science: Bachelor of Science Table 1 major changes for 2020**

Dr Muscatello presented the proposal to amend the majors in Table 1 of the Bachelor of Science for a 2020 implementation. The updates consist of adding new units being developed and deleting from the table those units being retired in 2020 to ensure progression requirements are met for those students remaining in the pre-2018 course.

The change to the Environmental Studies Table 1, for implementation in 2019, is the replacement of ENVI3X12, to be retired, with ENVI3888. This change will enable students in their final year in 2019, to complete the Environmental Studies major.

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-24**

That the Undergraduate Studies Committee recommend that the Academic Board:

1. approve the proposal from the Faculty of Science to update the Bachelor of Science;
2. approve the amendment of the tables of units of study for the pre-2018 Table 1 Majors arising from the proposal, with effect from 1 January 2020; and
3. approve the amendment of the tables of units of study for the Environmental Studies Table 1, with effect from Semester 2 2019.

4.19 **Science: Bachelor of Science in Agriculture (pre-2018 version)**

Dr Muscatello presented the proposal to amend the unit of study table for the Bachelor of Science in Agriculture (pre-2018) to incorporate new units of study as replacements for units of study being retired in 2020, to ensure progression requirements are met for those students remaining in the pre-2018 course. The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-25**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Science to amend the Bachelor of Science in Agriculture; and
2. approve the amendment of the pre-2018 unit of study table, with effect from 1 January 2020.

4.20 **Science: Bachelor of Animal and Veterinary Bioscience Year 2 changes for 2019**

Dr Muscatello presented the proposal for the endorsement of a necessary retrospective amendment to the Bachelor of Animal and Veterinary Bioscience for 2019. As a mandatory Year 2 unit in the degree, AGEC 1006, is no longer being offered by Economics, a replacement unit is needed for the 20 or so students who have yet to complete Year 2. Science was not notified in time to seek approval for the amendment at the appropriate time. Affected students were identified and notified of the unit change at enrolment time early this year.

This proposal was endorsed for submission to Academic Board conditional upon amendment of the transitional arrangements in the Course Resolutions to state that those students who completed the old unit, AGEC 1006, can count this toward their degree.

**Resolution USC2019/3-26**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Science to amend the Bachelor of Animal and Veterinary Bioscience; and
2. approve the amendment of the table of units of study, with effect from Semester 2 2019.

4.21 **Science: Bachelor of Animal and Veterinary Bioscience changes for 2020**

Dr Muscatello presented the proposal to amend the Bachelor of Animal and Veterinary Bioscience for a 2020 implementation. The proposed changes include updating the unit of study
table to incorporate new units of study as replacements for units of study being retired in 2020 to ensure progression requirements are met for those students remaining in the pre-2018 course.

This proposal was endorsed for submission to Academic Board conditional upon amendment of the transitional arrangements in the Course Resolutions to state that students completing the replacement units for ‘retired’ units can complete their degree under these conditions.

**Resolution USC2019/3-27**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Science to amend the Bachelor of Animal and Veterinary Bioscience; and
2. approve the amendment of the table of units of study, with effect from 1 January 2020.

### 4.22 Science: Bachelor of Veterinary Biology/Doctor of Veterinary Medicine

Dr Muscatello presented the proposal to amend the Bachelor of Veterinary Biology/Doctor of Veterinary Medicine, to include new zero credit-point Industry Placement units of study. The amendments include the listing of VETS6302, a skills-based unit with broad applicability, as a co-requisite to three placement units: VETS6303, VETS6304, and VETS6306.

During discussion, the following was clarified:

- Dr Muscatello undertook to check that work on the Cricos code is underway.
- Placements are to be completed before students commence Semester 2 Year 2.
- It was noted that no course resolution amendment was included in the proposal, although completion of an industry placement is a requirement of the degree and an accreditation requirement.

This proposal was endorsed for submission to Academic Board conditional upon:

- amendment of the Course resolutions to render commencement and completion requirements for the industry placement completely clear;
- review and appropriate amendment of the unit table and course resolutions to ensure that the 0 credit point industry placement units requirement is completely clear;
- clarification of the prescription for industry placements as before the beginning of Semester 2 Year 2 as to whether this means an intra-semester placement.

**Resolution USC2019/3-28**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Science to amend the Bachelor of Veterinary Biology/Doctor of Veterinary Medicine; and
2. approve the amendment of the unit of study table arising from the proposal, with effect from 1 January 2020.

### 4.23 Nursing: Bachelor of Nursing (Post-registration) Singapore

Stuart Skene presented the proposal to amend the Bachelor of Nursing (Post-registration) Singapore. These changes are the result of implementing the recommendations of the accreditation process for the degree, involving the development of a new unit from an existing one, and a change of title of two units.

These changes are for a July 2019 implementation, which will require Academic Board approval at its next meeting of 4 June 2019. Nursing has consulted with both the Academic Model Team and Faculty Services about the proposed changes. Once the academic model has been created, some students will be transferred. The lateness of the proposal is due to the recent accreditation approval, with the accreditation process itself having run late into the beginning of the semester.

The Committee endorsed the proposal for submission to Academic Board.

**Resolution USC2019/3-29**

That the Undergraduate Studies Committee recommend that Academic Board:

1. approve the proposal from the Faculty of Medicine and Health to amend the Bachelor of Nursing (Post-registration) Singapore; and
2. approve the amendment of the tables of units of study arising from the proposal, with effect from 1 July 2019.

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Proposals Endorsed by Admissions Sub-Committee

4.24 Admissions Office: 2020 Mathematics Prerequisite NRSL Impact & Processing Discussion paper

Associate Professor McCallum presented the 2020 Mathematics Prerequisite NRSL Impact and Processing Discussion Paper to the Committee, for the purpose of receiving feedback from the Committee and gaining its endorsement the Process Map for assessing NRSL Mathematics Prerequisites in 2020 onwards, and changes to the Admission Mathematics Prerequisite standards.

During discussion the following was established:

- A student’s completion of one year in a STEM or cognate degree would count as meeting the Mathematics prerequisites. Here it will not be necessary to examine the Mathematics completed within the degree itself.
- The MOOC can be considered as a possible pathway if seemed by the relevant associate dean to be equivalent to the required standard, taken to be MATH1111. Associate Professor Masters noted that the map includes the MOOC, but questioned whether this was actually for tertiary students, and suggested this be clarified for the standards for domestic applicants. Associate Professor McCallum considered the statement of “an approved Mathematics prerequisite course” to be clear for a tertiary standard, but suggested that the ‘secondary’ standard that might need amendment. It was recommended that if the Committee was to include the MOOC as a prerequisite course, and one of the pathways for entry, the wording would need to be completely clear.

This proposal was endorsed for submission to Academic Board conditional upon the Chair, A/Prof. Masters and A/Prof. McCallum reviewing and amending the wording of the standards for domestic students to include the MOOC as an equivalent approved Mathematics prerequisite course.

Resolution USC2019/3-30

That the Undergraduate Studies Committee recommend that Academic Board:

(1) approve the Process Map for assessing NRSL Mathematics Prerequisite in 2020 onwards; and

(2) approve the changes to the Admission Prerequisite Standards: Mathematics.

4.25 Science: Bachelor of Psychology Course Resolutions

Dr Muscatello presented the proposal to amend the admission requirements of the Bachelor of Psychology, to clarify and make the WAM requirement explicit. It has been observed that whilst some students gain entry on the basis of their ATAR, they do not perform adequately in the individual units. It is thought that the introduction of the WAM might work to improve this situation. The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-31

That the Undergraduate Studies Committee recommend that Academic Board:

(1) approve the proposal from the Faculty of Science to amend the Bachelor of Psychology; and

(2) approve the amendment of the Course Resolutions arising from the proposal, with effect from 1 January 2020.

5 STRATEGIC ITEMS

5.1 Education Strategy: For Endorsement: Extension of Assessment Plans Development Deadline

Associate Professor McCallum presented the proposal to extend the deadline for the development and submission of assessment plans to December 2019. The reason for the proposed extension is to allow more time for the work needed on the assessment plans, which involve the creation of much larger documents than the learning outcomes, and to allow time for their submission to the Assessment Advisory Committee before Undergraduate Studies and Academic Board. During discussion the following was confirmed:
• The Assessment Advisory Committee will provide the faculties with guidance on the development of assessment plans.
• More templates will be circulated in order to help faculties organize their submissions.
• A rolling deadline is being implemented; the AWG is happy to begin reviewing submissions.

The Committee endorsed the proposal for submission to Academic Board.

Resolution USC2019/3-32
That the Undergraduate Studies Committee recommend that Academic Board approve the proposal from the DVC Education Portfolio to extend the deadline for assessment plans to December 2019.

6  ITEMS FOR NOTING

6.1 Admissions Sub-Committee: Report on meeting of 9 April 2019
As Associate Professor Wilkinson, Chair, Admissions Sub-Committee had apologized for the meeting, the Chair requested that any feedback on the report be sent it to her or the Committee Officer.

Resolution USC2019/3-33
That the Undergraduate Studies Committee note the report of the Admissions Sub-committee for its meeting held on 9 April 2019.

7  OTHER BUSINESS

7.1 Deadlines for 2020 curriculum implementation
During discussion of several proposals, it was noted that the deadline for curriculum changes involving structural changes to an award course necessitating the creation of a different version in the system had passed. However, Charlie Foxlee confirmed that these can still be completed for 2020. Associate Professor Masters observed that whilst the Academic Board can approve curriculum changes, these changes become available only once the Academic Model Team is able to implement them in the system. He noted that although the Academic Model Team has been very accommodating, the point might come when the Team will not be able to accomplish the necessary work in the available time, and asked faculty staff to be mindful of this.

The Chair thanked everyone for their attendance at the meeting. There being no other business, the Meeting closed at 12.05 pm.

Date of next meeting
10:00am-12:00pm, Tuesday 7 May 2019, F23 Level 5 Function Room
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<table>
<thead>
<tr>
<th>Author</th>
<th>Dr Matthew Charet, Executive Officer to Academic Board</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewer/Approver</td>
<td>Associate Professor Tony Masters, Chair of the Academic Board</td>
</tr>
<tr>
<td>Paper title</td>
<td>Report of the Academic Board meeting</td>
</tr>
<tr>
<td>Purpose</td>
<td>To advise the Committee of the outcomes of the Academic Board meeting held on 4 June 2019</td>
</tr>
</tbody>
</table>

RECOMMENDATION

That the Undergraduate Studies Committee note the report of the Academic Board meeting held on 4 June 2019.

REPORT OF ACADEMIC BOARD MEETING

Items related to the Academic Quality Committee
The Academic Board noted the report from the meeting of the Academic Quality Committee held on Tuesday 30 April 2019 and:

- noted that the Committee received and noted course monitoring outlier data;
- noted that the Committee approved the completed Course Review for the Master of Human Resource Management & Industrial Relations (and embedded courses) subject to the provision of a timeline and map of changes;
- noted the Educational Integrity Annual Report 2018 and agreed to recommend it to Senate;
- noted that the Committee deferred to the next meeting the consideration of a request to accept the response to Recommendation 19 of the Academic Board thematic review into Student Wellbeing and Safety; and
- approved by circulation the Joint Academic Board / University Executive Phase Five Thematic Review of Student Wellbeing and Safety.

Items related to the Academic Standards and Policy Committee
The Academic Board noted the report from the meeting of the Academic Standards and Policy Committee held on Thursday 7 May 2019 and:

- approved the amendment of the Supervision of Higher Degree by Research Students Policy 2013, as presented, with effect from 18 June 2019;
- approved the amendment of the Coursework Policy 2014 and Learning and Teaching Policy 2015 and endorsed administrative changes to the Learning and Teaching Procedures 2016, with effect from 1 July 2019; and
- approved the introduction of the Cadigal Early Conditional Offer Scheme, as enabled by the Coursework Policy 2014, with effect from 1 July 2019.

Items related to the Graduate Studies Committee
The Academic Board noted the report from the meeting of the Graduate Studies Committee held on 30 April 2019 and:

- approved the proposal from the Faculty of Arts and Social Sciences to amend the Master of Creative Writing, Graduate Diploma in Creative Writing, and Graduate Certificate in Creative Writing and approved the amendment of course resolutions and unit of study tables arising from the proposal, with effect from January 1, 2020;
- approved the proposal from the Faculty of Arts and Social Sciences to amend the Master of Art Curating, Graduate Diploma of Art Curating, Graduate Certificate of Art Curating, Master of Contemporary Art, Graduate Diploma in Contemporary Art, Master of Cultural Studies, Graduate Diploma in Cultural Studies, Graduate Certificate in Cultural Studies, Master of Development Studies, Graduate Diploma in Development Studies, Graduate Certificate in Development Studies, Master of Economic Analysis, Graduate Diploma in Economic Analysis, Graduate Certificate in Economic Analysis, Master of Health
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Security, Graduate Diploma in Health Security, Graduate Certificate in Health Security, Master of Human Rights, Graduate Diploma in Human Rights, Graduate Certificate in Human Rights, Master of International Relations, Graduate Diploma in International Relations, Graduate Certificate in International Relations, Master of International Security, Graduate Diploma in International Security, Graduate Certificate in International Security, Master of Moving Image, Graduate Diploma in Moving Image, Master of Museum and Heritage Studies, Graduate Diploma in Museum and Heritage Studies, Graduate Certificate in Museum and Heritage Studies, Master of Peace and Conflict Studies, Graduate Diploma in Peace and Conflict Studies, Graduate Certificate in Peace and Conflict Studies, Master of Political Economy, Graduate Diploma in Political Economy, Graduate Certificate in Political Economy, Master of Public Policy, Graduate Diploma in Public Policy and Graduate Certificate in Public Policy and approved the amendment of course resolutions arising from the proposal, with effect from January 1, 2020;

- approved the proposal from the Faculty of Engineering and Information Technologies to amend the Master of Professional Engineering, Master of Professional Engineering (Accelerated) and Master of Engineering and approved the amendment to the table of Units of Study arising from the proposals, with effect from 1 January 2020;

- approved the proposal from the Faculty of Engineering and Information Technologies to amend the Master of Data Science and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from Sydney Law School to amend the Resolutions of the University of Sydney Law School for Coursework Awards and the Master of Laws and Graduate Diploma in Law, and approved the amendment of the School and course resolutions arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Sydney Law School to amend the Master of Laws, Graduate Diploma in Laws, Master of Criminology, Graduate Diploma in Criminology, Master of Environmental Law, Graduate Diploma in Environmental Law, Master of Business Law, Graduate Diploma in Business Law, Master of International Law, Graduate Diploma in International Law, Master of Law and International Development, Graduate Diploma in International Business Law, Master of Global Law, Master of Taxation, Graduate Diploma of Taxation and Master of International Taxation and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Science to amend the Bachelor of Veterinary Biology / Doctor of Veterinary Medicine and Doctor of Veterinary Medicine and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Science to amend the Master of Agriculture and Environment and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Science to amend the Master of Marine Science and Management and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Science to amend the Master Mathematical Sciences and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Medicine and Health to amend the Master of Medicine (Infection and Immunity), Master of Science in Medicine (Infection and Immunity), Graduate Diploma in Infection and Immunity, Graduate Diploma of Science in Infection and Immunity, Graduate Certificate in Infection and Immunity and Graduate Certificate of Science in Infection and Immunity and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Medicine and Health to amend the Master of Pharmacy and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Medicine and Health to amend the Master of Public Health and approved the amendment of the unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Medicine and Health to amend the Master of Global Health and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
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- approved the proposal from the University of Sydney Business School to amend the Master of Business Administration and approved the amendment of course resolutions and unit of study tables arising from the proposal, with effect from 1 January 2020; and
- approved the proposal from the University of Sydney Business School to amend the Master of Commerce, the Graduate Diploma in Commerce and Graduate Certificate in Commerce and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020.

Items related to the Undergraduate Studies Committee

The Academic Board noted the report from the meeting of the Undergraduate Studies Committee held on 7 May 2019, and:

- approved the proposal from the Sydney School of Architecture, Design and Planning to amend the Bachelor of Design Computing and the Bachelor of Design Computing / Bachelor of Advanced Studies and approved the amendments to the Course Resolutions and Units of Study Table arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Sydney School of Architecture, Design and Planning to amend the Major in Design for the Bachelor of Advanced Studies and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Sydney School of Architecture, Design and Planning to amend the Major in Biological Design for the Bachelor of Advanced Studies and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Sydney Business School to introduce an Advanced Coursework (non-Honours) pathway in Business for students enrolled in the Bachelor of Advanced Studies, approved the proposal for existing Honours pathways to be embedded in the Bachelor of Advanced Studies, and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Arts and Social Sciences to amend the Bachelor of Arts / Bachelor of Advanced Studies and the Bachelor of Economics / Bachelor of Advanced Studies and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Arts and Social Sciences to amend the Bachelor of Arts and Bachelor of Arts / Bachelor of Advanced Studies and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Arts and Social Sciences to amend its Faculty Resolutions and approved the amendment of the Resolutions arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Arts and Social Sciences to amend the Bachelor of Arts / Master of Nursing and approved the amendment of the course resolutions arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Engineering to amend the Bachelor of Project Management and approved the amendment of course resolutions arising from the proposal, with effect from 1 January, 2020;
- approved the proposal from the Faculty of Engineering to amend the Bachelor of Advanced Computing and approved the amendment of the course resolutions and unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Engineering to amend the Bachelor of Engineering (Honours) and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Health Sciences to amend the Bachelor of Applied Science (Exercise Physiology) and the Bachelor of Applied Science (Exercise and Sport Science) and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Health Sciences to amend the Bachelor of Applied Science (Exercise Physiology), Bachelor of Applied Science (Exercise and Sport Science), Bachelor of Applied Science (Physiotherapy) and Bachelor of Health Sciences, and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Sydney Law School to amend the Bachelor of Laws and approved the amendment of the Unit of Study Tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Medicine and Health to amend the Bachelor of Pharmacy, Bachelor of Pharmacy (Honours), Bachelor of Pharmacy and Management and Bachelor of Pharmacy

Respect is a core value of the Academic Board
and Management (Honours), and approved the amendment of course resolutions and unit of study tables arising from the proposal, with effect from 1 January 2020;

- approved the proposal from the Faculty of Science to amend the Bachelor of Science and the Bachelor of Science / Bachelor of Advanced Studies and approved the amendment of the unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Science to update the Bachelor of Science and approved the amendment of the unit of study tables for the Table 1 majors (pre-2018) tables, with effect from Semester 2 2019;
- approved the proposal from the Faculty of Science to update the Bachelor of Science, approved the amendment of unit of study tables for the pre-2018 Table 1 Majors arising from the proposal with effect from 1 January 2020, and approved the amendment of unit of study tables for the Environmental Studies Table 1, with effect from Semester 2 2019;
- approved the proposal from the Faculty of Science to amend the Bachelor of Science in Agriculture and approved the amendment of the pre-2018 unit of study table, with effect from 1 January 2020;
- approved the proposal from the Faculty of Science to amend the Bachelor of Animal and Veterinary Bioscience and approved the amendment of unit of study tables, with effect from Semester 2 2019;
- approved the proposal from the Faculty of Science to amend the Bachelor of Animal and Veterinary Bioscience and approved the amendment of unit of study tables, with effect from 1 January 2020;
- approved the proposal from the Faculty of Science to amend the Bachelor of Veterinary Biology / Doctor of Veterinary Medicine and approved the amendment of unit of study tables arising from the proposal, with effect from 1 January 2020;
- approved the proposal from the Faculty of Medicine and Health to amend the Bachelor of Nursing (Post-registration) Singapore and approved the amendment of unit of study tables arising from the proposal, with effect from 1 July 2019;
- approved the proposal from the Faculty of Science to amend the Bachelor of Psychology and approved the amendment of the Course Resolutions arising from the proposal, with effect from 1 January 2020; and
- approved the proposal from the DVC Education Portfolio to extend the deadline for assessment plans to December 2019.

**Other matters**

The Academic Board also:

- discussed and endorsed the *Research Code of Conduct 2019*, noting that further amendments will be presented to the Academic Board as necessary to address emerging regulatory changes;
- noted an update from the Acting Registrar and Academic Director, Education Policy and Quality, on progress and piloting of the Graduate Qualities Rubric;
- noted a presentation by Brent Liang and Kirath Singh on the University's entry for the Hult Prize;
- received and noted the Reports of the Chair and of the Vice-Chancellor;
- approved the creation of session codes to enable the delivery of the 2020 Academic Calendar for the Faculty of Medicine and Health;
- approved the 2020 Academic Calendar for the Sydney School of Veterinary Science in the Faculty of Science; and
- noted amendments to the academic staff membership of the Academic Panel for the period 2019 – 2021.


Associate Professor Tony Masters
Chair, Academic Board
Non-Confidential

<table>
<thead>
<tr>
<th>Author</th>
<th>Associate Professor Tony Masters (Chair, Academic Board)</th>
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<td>Reviewer/Approver</td>
<td>Associate Professor Tony Masters (Chair, Academic Board)</td>
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<tr>
<td>Proposal / Paper Title</td>
<td>Academic Board Standing Orders</td>
</tr>
<tr>
<td>Purpose</td>
<td>To seek feedback from the Undergraduate Studies Committee on draft Standing Orders for meetings of the Academic Board</td>
</tr>
<tr>
<td>Proposal Presenter</td>
<td>Associate Professor Tony Masters (Chair, Academic Board)</td>
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</tbody>
</table>

**RECOMMENDATION**

That the Undergraduate Studies Committee discuss and provide feedback on the proposed draft Academic Board Standing Orders, as presented.

**EXECUTIVE SUMMARY**

In accepting the Recommendations of the Review of the Academic Board on 28 March 2017, the Board agreed to several changes in its procedures. These Standing Orders have been prepared, in part, to provide a record, other than institutional memory, of these procedures. They are also a simple means of enabling new members to appreciate the conduct of meetings of the Academic Board, its Committees and sub-Committees.

**ATTACHMENTS**

Attachment 1 – Draft Academic Board Standing Orders
In accepting the Recommendations of the Review of the Academic Board on 28 March 2017, the Board agreed to several changes in its procedures. These Standing Orders have been prepared, in part, to provide a record, other than institutional memory, of these procedures. They are also a simple means of enabling new members to appreciate the conduct of meetings of the Academic Board, its Committees and sub-Committees.

Part 1 Preliminary

1.1 Commencement

These Standing Orders have been adopted by the Academic Board on xxxxxxx.

1.2 Purpose

The purpose of these Standing Orders is to provide guidance for the conduct of the business and proceedings of meetings of the Academic Board and its Committees as defined in the University of Sydney (Academic Board) Rule 2017 (the “Academic Board Rule”). The Standing Orders also give effect to recommendations of the Review of the Academic Board 2016, accepted by the Academic Board on 28 March 2017.

These procedures are subsidiary to those included in the Academic Board Rule. The Academic Board Rule specifies the constitution of the Academic Board, the quorum, the content of minutes, resolutions and voting. Electoral provisions are described in the Election Procedures 2015 and the Election Candidates’ Conduct Procedures 2017.

1.3 Coverage/Limitations

a) These Standing Orders are subject to the requirements of applicable University rules, policies and procedures, including, but not limited to, those referenced in the Academic Board Rule.

b) These Standing Orders apply to all meetings of the Academic Board unless the meeting resolves, that any part(s) of these Orders be suspended for the whole or any part of a meeting.

c) Committees, Sub-Committees and other advisory groups of the Academic Board may elect to adopt these Standing Orders.

d) Any procedural matter not dealt with by the Academic Board Rule or by these Standing Orders shall be determined by the Chair of the meeting.

e) Business submitted to the Academic Board, its Committees and Sub-Committees will be that defined by the Academic Board Rule, the University of Sydney (Delegations of Authority - Academic Functions) Rule 2016 and the Committee or Sub-Committee Terms of Reference.

1.4 Interpretation/Definitions

The meanings of terms within these Standing Orders are those defined in the Academic Board Rule and the University of Sydney (Governance of Faculties and University Schools) Rule 2016. In addition:

a) Academic Board Rule means the University of Sydney (Academic Board) Rule 2017, as amended.
b) Academic Delegations of Authority means the University of Sydney (Delegations of Authority – Academic Functions) Rule 2016 as amended.

c) GoFUS Rule means the University of Sydney (Governance of Faculties and University Schools) Rule 2016 as amended.

d) Motion means the formal expression of a proposal put to the meeting.

e) Resolution means the formal record of a decision of the meeting.

f) Starring of agenda items means the identification of agenda items for reporting and/or discussion.

2 Agendas and Supporting Materials

Notice of a meeting and a copy of the business papers shall be circulated electronically by the Executive Officer or Committee Officer, with timing of distribution as determined in the Committee/Sub-Committee Terms of Reference and/or advertised on the Academic Board or Committee website. Academic Board meetings are scheduled in the month prior to a meeting of the University Senate. Additional items and business papers that require a decision may be circulated with the permission of the relevant Chair, and for the Academic Board and Committees must be circulated at least three working days before the meeting. The Chair of the meeting may allow additional documentation (e.g., copies of presentations, briefing documents, supporting materials) to be tabled at the meeting. Such material shall not be considered if the Academic Board or Committee resolves that it be held over to a subsequent meeting and/or be referred to another Committee, Sub-Committee, Taskforce, Review Committee or working party of the Academic Board or other body as appropriate.

3 Agenda Items

The full, complete and final version of the proposal intended for consideration by the Academic Board or Committee must be received by the Executive Officer or Committee Officer by the close-off for receipt of agenda items advertised on the Academic Board or Committee website; items received after this date may only be included in the agenda with the permission of the relevant Chair. Items received after the distribution of the agenda and accepted for the meeting will be starred.

4 Meetings by Circulation

For matters that require urgent consideration, in the absence of an appropriate imminent meeting:

a) The Executive Officer or Committee Officer will seek the permission of the relevant Chair to propose an item for circular resolution, noting the circumstances which make the decision one of an emergency or one which is required to avoid disadvantage;

b) If agreed by the relevant Chair, the Executive Officer or Committee Officer will forward the item by electronic notice to the members of the Academic Board or Committee, advising that a decision is sought regarding proposed recommendations, noting the circumstances, and attaching the proposed recommendations and any supporting documents;

Commented [A1]: I think this part could do with some clarification. As I read it, the circulation of the agenda and papers is done upon dates as advertised on the website. This doesn’t say who sets those dates or how. Is it a resolution of the Board/Committee? It also says that additional items may be circulated with the permission of the Chair, but that this must be at least three working days before the meeting (re the Academic Board and its Committees, but presumably there is no such prescription re lesser bodies such as sub-committees or task-forces). This implies that the website deadline for the circulation of the agenda must be more than three working days before the meeting, but the parameters remain unclear.

All of this becomes important if the starring of items in SO6(b) means that an item can only be starred by a member if notice of at least 2 working days is given. This is presumably why late items require 3 working days’ notice, and normal agenda items more than 3 working days. Query whether this starring requirement applies regarding discussion of matters at sub-committees, task-forces etc? If so, then some kind of similar prescription would have to apply regarding advance notice of circulation.

In my view, however, this would be too prescriptive and it would be better for people to be able to star items at the beginning of the meetings of sub-committees, etc, and maybe even committees, as it is inevitable that urgent late business will arise. One other way of dealing with the problem is by saying that any business of which there has been less than X days’ notice will be automatically starred.

Commented [AM2R1]: The responsibility for the timing of the Academic Board meetings has been clarified. The other questions regarding sub-committees, etc., have been handled by introducing 1.3(c) which allows Committees and Sub-Committees to elect to adopt the Standing Orders and 1.3(d) to chose to use only part of the Standing Orders.

Commented [A3]: You may need to include reference here to the three working day cut-off as specified in SO2 or make some adjustment in relation to starring in SO6.

Commented [AM4R3]: Added the provision that late items will be starred.

Commented [AM5]: The following is adapted directly from the Senate provisions. I think the Board process and that of the Senate should align.
c) The Executive Officer or Committee Officer will advise the Academic Board or Committee that the period for deliberation is at least seven calendar days or until a majority decision is received, unless a shorter timeframe is approved by the relevant Chair;

d) Upon receipt of a majority decision the recommendations shall be deemed approved or rejected in accordance with the decision; or

e) Upon the expiration of seven calendar days, if no majority decision is received the recommendations shall be deemed to have lapsed.

The suspension of Standing Orders is not possible for a meeting by circulation.

5 Order of Business

The normal order of business at each regular meeting of the Academic Board shall be as follows –

a) Welcome and Apologies.

b) Procedural Matters:
   i) adoption of unstarred items
   ii) minutes of previous meeting
   iii) proposed changes to the Academic Board Rule
   iv) business arising out of the minutes not listed in the agenda
   v) proposed changes to the membership of the Academic Board, its Committees or Sub-Committees.

c) Strategic Items of Business.

d) Report of the Chair.

e) Report of the Vice-Chancellor.

f) Questions with or without notice to the Vice-Chancellor and Chair of the Academic Board.

g) Motions of which notice has been given.

h) Reports of Academic Board Committees

i) General Business.

j) Next Meeting

The normal order of business at each regular meeting of the Committees and Sub-Committees of the Academic Board shall be as determined in the agenda, consistent with these Standing Orders.
The Chair may alter the normal order of business. Motions, other than those put by the Chair, must be proposed and seconded by members of the Academic Board, Committee or Sub-Committee.

6 Starring of items

a) The Agenda may indicate items starred for discussion, with other items to be resolved as presented without discussion.

b) Members of the Academic Board or Committee may star unstarring items for discussion by giving notice to the Executive Officer or Committee Officer at least two working days prior to the meeting, and in doing so must confirm the item they wish to be starred and provide a brief description of the reasons for their request.

7 Conduct of Meetings

Meetings are conducted as described in Part 7 of the Academic Board Rule, observing normal meeting procedures, with the Chair determining the speaking order for speakers communicating their desire to speak to the Chair before the meeting, or at the meeting by raising their hand. The method of voting at meetings of the Academic Board is described in Part 7(7) et seq. of the Academic Board Rule.

At the 12 June 2018 meeting of the Academic Board, members agreed that conversations at the Academic Board and its Committees should be polite, respectful, inclusive, factual, on-topic and non-pejorative. Members of the Academic Board and its Committees, and Academic Board representatives on Appointment or Promotion Committees, should conform to relevant University codes and policies, including the Staff Code of Conduct, the External Interests Policy 2010 and the Code of Conduct for Students. Members of the Academic Board, its Committees, Sub-Committees and Appointment and Promotion Committees shall not disclose confidential information.

8 Duration of Meetings

The expected standard duration for meetings of the Academic Board and Committees will be two hours; where the duration of an individual meeting will vary from this, the intended meeting duration will be communicated as far as possible in advance to all members. When required, meetings may be extended by a further 15 minutes by a vote of the members present.

9 Changes to Standing Orders

Changes to these Standing Orders will be made by the Academic Board only on the recommendation of the Academic Board’s Academic Standards and Policy Committee.

Note: Extract of Part 7 of the Academic Board Rule

7.1 Meetings of the Academic Board

(1) The Chair is responsible for convening meetings of the Academic Board, in the manner specified in the procedures.
(a) The Chair must convene at least six meetings in each calendar year.
(b) The Chair may also convene a meeting at any time on their own motion.
(c) The Chair must convene a meeting if requested to do so by any of:
   (i) Senate;
   (ii) the Vice-Chancellor; or
   (iii) at least 50% of all members.

(2) A meeting held or a resolution passed at a meeting is not invalid because:
   (a) a person entitled to receive notice of the meeting did not receive it; or
   (b) less than the prescribed time of notice was given.

(3) A person who is acting in the position of an ex officio member may attend meetings and may
   exercise the voting rights of that position.
(4) An ex officio member, elected staff member or student member may nominate a standing
   alternate to attend meetings on their behalf.
   (a) The member must inform the Secretary to the Academic Board in writing of the
      following at least two days before the next meeting:
      (i) the fact of the appointment of the alternate;
      (ii) the alternate’s name;
      (iii) the alternate’s contact details; and
      (iv) the alternate’s position.
   (b) The alternate must meet the membership criteria applicable to the member.

(5) Quorum for Academic Board meetings is 30 members.
   (a) If no quorum is present within 30 minutes of the notified starting time of a meeting,
      the meeting may consider only procedural matters and must not transact any other business.
   (6) The Secretary to the Academic Board must arrange for minutes of each meeting to be taken
      and recorded.

      (a) Minutes must record all motions put to a meeting, and their outcomes.
      (b) Copies of draft minutes must be provided to each member no later than the date
          when notice of the next meeting is given.
      (c) Minutes, once approved, must be signed by the Chair as a true and correct record.

(7) Any resolution which is to be put to a vote by members must be duly proposed and
    seconded.

(8) Each member present at a meeting has one deliberative vote.
   (a) Voting will be conducted by show of hands, unless a secret ballot is required.
   (b) A secret ballot must be conducted if:
      (i) demanded by any two members present at the meeting and entitled to vote;
      or
      (ii) directed by the Chair.

(9) Except in relation to motions of dissent under subsection 7.1(13), the Chair has one casting
    vote, in addition to a deliberative vote, if there is a tied vote.
(a) No casting vote is available in relation to a motion of dissent under subsection 7.1(13).

(10) Ordinary resolutions will be carried by a majority of those present at the meeting and eligible to vote.

(11) A special resolution will be carried by at least 75% of those present at the meeting and eligible to vote.

(a) A special resolution is required to amend any Rule made by the Academic Board.

(12) Except for a motion of dissent in the Chair, only the Chair may put a motion without notice to a meeting of the Academic Board.

(13) A member of the Academic Board may move a motion of dissent from a ruling by the Chair without notice.

(a) A motion of dissent will be carried by at least 75% of those present at the meeting and eligible to vote.

(b) A successful motion of dissent will:

(i) overrule the relevant ruling of the Chair; and

(ii) substitute a new ruling for that ruling.

(c) The Chair must not preside when a dissent motion is put and resolved. The Deputy Chair will preside in such circumstances, and if they are not present, the Academic Board must elect another member to preside.

7.2 Meetings of Committees

(1) Committee Chairs are responsible for convening committee meetings, and will determine the schedule of meetings in consultation with the Chair of the Academic Board.

(2) A member of a committee may nominate an alternate to attend a meeting on their behalf, by giving written notice to the relevant Chair at least two days before any meeting the alternate is to attend.

(3) Meeting and quorum requirements for committees will be as specified in their Terms of Reference.

(4) The Secretary to the Academic Board will arrange for minutes of each committee meeting to be taken and recorded.
RECOMMENDATION

That the Undergraduate Studies Committee recommend that the Academic Board:
(1) approve the proposal from the Faculty of Engineering to amend the Bachelor of Advanced Computing;
and
(2) approve the amendment of course resolutions and unit of study tables arising from the proposal,
with effect from 1 January 2020.

EXECUTIVE SUMMARY

It is proposed to amend the degree resolutions of the Bachelor of Advanced Computing in order to change the requirements for the award of Honours

At the 7 May meeting of USC the School of Computer Science proposed to create a distinct research path for Honours by requiring students to undertake research training (including the completion of research projects and a research methods unit) in order to be eligible for Honours.

This proposal makes further modifications to the rules regarding Honours. Students will be required to achieve a specified WAM to be eligible to undertake the Honours units of study. The calculation of the class of Honours will be based on 48 cp of 3000 and higher level units including the research units of study. The HWAM ranges have been modified in line with this change in accordance with the Coursework Policy Part 19 Section 96.

ATTACHMENTS

Attachment 1: Minor Course Amendment proposal – Bachelor of Advanced Computing (Honours)
Minor Course Amendment Proposal

Faculty: Faculty of Engineering and Information Technologies
Contact person: Dr Josiah Poon
Honours Coordinator

1. Name of award course
   Bachelor of Advanced Computing (Honours)

2. Purpose of proposal
   To amend the Course Resolutions of the Bachelor of Advanced Computing (Honours).
   We wish to limit the award of Honours in BAdvComp to students who have completed research training, comparable to those gaining honours in BSc and other degrees. BAdvComp (Honours) is currently awarded based on a candidate’s EIHWAM. This does not differentiate students who have completed their research training (including the completion of research projects and a research methods unit) from those who did not.

   In order to distinguish research path (Honours) from non-research path, amend the course resolutions of Bachelor of Advanced Computing (Honours) and the unit of study table to clarify the requirements of the award of Honours.

3. Details of amendment
   Appendix 1: Bachelor of Advanced Computing (Honours) Course Resolutions
   Appendix 2: Bachelor of Advanced Computing (Honours) handbook table

4. Transitional arrangements
   These resolutions apply to students who commenced their candidature after 1 January 2020.

5. Other relevant information

6. Signature of Dean
Bachelor of Advanced Computing and combined degrees

Bachelor of Advanced Computing and combined degrees
Bachelor of Computing
Bachelor of Advanced Computing
Bachelor of Advanced Computing and Bachelor of Science
Bachelor of Advanced Computing and Bachelor of Commerce

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the ‘Coursework Rule’), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course Resolutions

1. Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course and stream title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPCOMPUT-01</td>
<td>Bachelor of Computing</td>
</tr>
<tr>
<td>BPADVCMP-01</td>
<td>Bachelor of Advanced Computing</td>
</tr>
<tr>
<td>BPACMSCI-01</td>
<td>Bachelor of Advanced Computing / Bachelor of Science</td>
</tr>
<tr>
<td>BPACMCOM-01</td>
<td>Bachelor of Advanced Computing / Bachelor of Commerce</td>
</tr>
</tbody>
</table>

2. Attendance Pattern
The attendance pattern for these courses is full time or part time according to candidate choice. Part-time students must still satisfy appropriate enrolment progression and are subject to the same degree time limits as full-time students. Visa requirements commonly restrict international students to full time study only. The Faculty strongly recommends full-time enrolment as the preferred option for all undergraduate students unless exceptional circumstances exist.

3. Streams
(1) The Bachelor of Computing is not available in streams.
(2) The Bachelor of Advanced Computing is available in the Dalyell stream.
(3) Completion of a stream is not a requirement of the Bachelor of Advanced Computing. The requirements for the Dalyell stream are set out in Table S of the Shared Pool for Undergraduate Degrees. Candidates wishing to transfer into or out of the Dalyell stream should contact the Student Centre.
(4) The Bachelor of Science, as part of the Bachelor of Advanced Computing / Bachelor of Science combined degree, is available in the following streams:
   (a) Health
   (b) Medical Science
   (c) Dalyell
   Completion of a stream is not a requirement of the Bachelor of Science. The requirements for the completion of each stream are as specified in Table A for the Bachelor of Science or, in the case of the Dalyell Stream, in Table S of the Shared Pool for Undergraduate Degrees. Candidates wishing to transfer between the Bachelor of Science streams should contact the Student Centre. Candidates who qualify for the Dalyell stream may complete that stream while also completing another stream.
(5) The Bachelor of Commerce, as part of the Bachelor of Advanced Computing / Bachelor of Commerce combined degree, is available in the following streams:
   (a) Dalyell
   Completion of a stream is not a requirement of the Bachelor of Commerce. The requirements for the completion of the Dalyell Stream are set out in Table S the Shared Pool for Undergraduate Degrees. Candidates wishing to transfer into or out of the Dalyell Stream should contact the Student Centre.

4. Cross-Faculty Management
(1) Candidates will be under the general supervision of the Faculty of Engineering and Information Technologies for the duration of the degree or combined degree.
(2) The Deans of the Faculty of Engineering and Information Technology and the Faculty responsible for the second degree shall jointly exercise authority in any matter concerned with the combined course not otherwise dealt with in these resolutions.

5. Admission to Candidature
(1) Admission to the Bachelor of Advanced Computing, the Bachelor of Advanced Computing and Bachelor of Science and the Bachelor of Advanced Computing and Bachelor of Commerce is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander applicants. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission requirements are found in the Coursework Rule and the Coursework Policy.
(2) Commencing candidates may not be admitted to candidature in the Bachelor of Computing. With the permission of the Faculty, candidates in the Bachelor of Advanced Computing may transfer into the Bachelor of Computing as specified in Clause 13 below.
Bachelor of Advanced Computing and combined degrees

(3) Admission to the Dalyell stream requires achievement of a minimum tertiary admission rank (ATAR) set by the Board of Interdisciplinary Studies or equivalent standard.

6. Requirements for Award

(1) The units of study that may be taken for the Bachelor of Computing, the Bachelor of Advanced Computing/Bachelor of Commerce and the Bachelor of Advanced Computing/Bachelor of Science are:

(a) Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(b) Table A for the Bachelor of Commerce;
(c) Table A for the Bachelor of Science;
(d) Table S from the Shared Pool for Undergraduate Degrees;
(e) Table O from the Shared Pool for Undergraduate Degrees.

In these resolutions, except where otherwise specified, Table S and Table O mean Table S and Table O as specified here.

(2) To qualify for the award of the Bachelor of Computing, a candidate must complete 144 credit points, comprising:

(a) 78 credit points of core units as specified in Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(b) An Information Technology Major (48 credit points) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing and as defined in section 7 below;
(c) Optionally, up to 12 credit points of units of study in the Open Learning Environment as listed in Table O;
(d) Optionally a minor (36 credit points) from Table S or Table A;
(e) Where appropriate, additional elective units as required from Table A for the Bachelor of Computing/Bachelor of Advanced Computing.

(3) To qualify for the award of the Bachelor of Advanced Computing, a candidate must complete 192 credit points, comprising:

(a) 96 credit points of core units as specified in Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(b) An Information Technology Major (48 credit points) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing and as defined in section 7 below;
(c) At least 12 credit points of 4000-level or higher IT electives from Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(d) Optionally up to 12 credit points of units of study in the Open Learning Environment as listed in Table O;
(e) Optionally, minor (36 credit points) or second major (48 credit points) from Table S or Table A;
(f) Where appropriate, additional elective units as required from Table A for the Bachelor of Computing/Bachelor of Advanced Computing or Table S.

(4) To qualify for the award of the Bachelor of Advanced Computing / Bachelor of Science a candidate must complete 240 credit points comprising:

(a) 96 credit points of core units as specified in Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(b) An Information Technology Major (48 credit points) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing and as defined in section 7 below;
(c) At least 12 credit points of 4000-level or higher IT electives from Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(d) Degree core: 12 credit points of mathematics degree core units of study as set out in Table A for the Bachelor of Science (students may count the units from their major(s) or minor(s) to fulfill this requirement) and 12 credit points of 1000-level science elective units of study (excluding units listed as Mathematics degree core) as set out in Table A (students may count the units from their major(s) or minor(s) to fulfill this requirement); and
(e) A Science Major (48 credit points) or a 3-year program with an embedded major from Table A for the Bachelor of Science, and which is different from the major completed to satisfy requirements specified clause 6 (4)(b) above (note: candidates taking Computational Data Science to fulfill requirements specified in clauses 6 (4) (b) may not take Data Science to fulfill requirements for the second major specified in this clause);
(f) If enrolled in a stream, requirements for the stream as specified in Table A for the Bachelor of Science or Table S.
(g) 12 credit points of units of study in the Open Learning Environment as listed in Table O;
(h) Where appropriate, additional elective units as required from Table A for the Bachelor of Computing/Bachelor of Advanced Computing, Table A for the Bachelor of Science and Table S.

(5) To qualify for the award of the Bachelor of Advanced Computing / Bachelor of Commerce a candidate must complete 240 credit points comprising:

(a) 96 credit points of core units as specified in Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(b) An Information Technology Major (48 credit points) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing and as defined in section 7 below;
(c) At least 12 credit points of 4000-level or higher IT electives from Table A for the Bachelor of Computing/Bachelor of Advanced Computing;
(d) 24 credit points of core units of study as set out in Table A for the Bachelor of Commerce;
(e) A Commerce Major (48 credit points) from Table A for the Bachelor of Commerce;
(f) 12 credit points of units of study in the Open Learning Environment as specified in Table O;
(g) Where appropriate, additional elective units as required from Table A for the Bachelor of Computing/Bachelor of Advanced Computing, Table A for the Bachelor of Commerce, and Table S.

7. Majors, Minors and Programs

(1) Bachelor of Computing and Bachelor of Advanced Computing

(a) Completion of at least one a major (the Information Technology Major) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing is a requirement for the Bachelor of Computing and Bachelor of Advanced Computing. The majors available as Information Technology Majors are:

(i) Computer Science
(ii) Software Development
(iii) Information Systems
(iv) Computational Data Science

(b) Completion of a minor (the common pool minor) as listed and specified in Table S is optional in the Bachelor of Computing. Completion of a minor or major (the common pool minor or major) as listed and specified in Table S is optional in the Bachelor of Advanced Computing. The available minors and majors and requirements are as specified in Table S. Students taking an Information Technology Major or a program which contains a major (the Science Program) from Table A for the Bachelor of Science may not take a minor or major in Data Science from Table S.

(2) Bachelor of Advanced Computing / Bachelor of Science

(a) Completion of a major (the Information Technology Major) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing is a requirement for the Bachelor of Advanced Computing/Bachelor of Science. The majors available as Information Technology Majors are as specified in clause 7 (1)(a) for the Bachelor of Advanced Computing.

(b) Completion of a major (the Science Major) or a program which contains a major (the Science Program) from Table A for the Bachelor of Science is a requirement for the Bachelor of Advanced Computing/ Bachelor of Science. The Science Major must not be the same.
as the Information Technology Major completed to satisfy requirements specified in clause 7 (2)(a) above. Students taking an Information Technology Major in Computational Data Science may not take a Table A major for the Bachelor of Science or Table S Major in Data Science. The majors and programs available and requirements for completing the majors and programs are as specified in Table A for the Bachelor of Science.

(3) Bachelor of Advanced Computing / Bachelor of Commerce
(a) Completion of a major (the Information Technology Major) from Table A for the Bachelor of Computing/Bachelor of Advanced Computing is a requirement for the Bachelor of Advanced Computing/ Bachelor of Commerce. The majors available are as specified in clause 7 (1) (a) for the Bachelor of Advanced Computing.
(b) Completion of a major (the Commerce Major) from Table A for the Bachelor of Commerce is a requirement. The majors available and requirements for completing the major are as specified in Table A for the Bachelor of Commerce.

8. Progression Rules
(1) Progression within a major, program or minor: Except with the permission of the relevant program, major or minor coordinator, candidates must have passed, or be concurrently enrolled in, all units of study at a given level before enrolling in any units at a higher level.
(2) Progression within the Bachelor of Advanced Computing combined degrees: Candidates must adhere to any progression rules for the Bachelor of Science or Bachelor of Commerce as relevant.
(3) Progression within the Medical Science Stream: Students in this stream will be required to meet the progression requirements for the stream.
(4) Progression with the Dalyell Stream:
(a) With the permission of the Dalyell coordinator, candidates in the Dalyell stream may attempt advanced units at higher levels than the usual sequence through a program, major or minor.
(b) Candidates must achieve an Annual Average Mark at a level determined by the Board of Interdisciplinary Studies in each year of study to continue in the Dalyell stream. Candidates who do not maintain an Annual Average Mark at the level determined by the Board of Interdisciplinary Studies may continue in any other major, minor, program or stream into which they were admitted, but will not remain in the Dalyell stream.

9. Requirements for the Honours degree
(1) Bachelor of Computing: Honours is not available in the Bachelor of Computing.
(2) Bachelor of Advanced Computing (as either a single degree or as part of a combined degree): Honours is awarded in the Bachelor of Advanced Computing to meritorious candidates who meet the level of performance specified in clause 10.
(a) Admission to the Honours program requires a WAM of at least 68 in the major and an overall WAM of at least 65 calculated at the end of the semester immediately prior to the commencement of Honours.
(b) Honours is awarded in the Bachelor of Advanced Computing to meritorious candidates who complete an embedded honours component and meet the level of performance as specified in clause 10. The honours mark is determined by calculating a WAM from the 48 credit points of units including 24 credit points of research-related units (INFO4001, INFO4002, INFO4003 and INFO4990), and the best 24 credit points of 3000-, 4000- and 5000-level units from Bachelor of Advanced Computing Table A. Non research related units must include at least one 4000- or 5000-level unit.
(3) Honours in an area of study in the Bachelor of Science and Bachelor of Commerce, as part of a combined degree with the Bachelor of Advanced Computing
(a) Honours in an area of study in the Bachelor of Science or Bachelor of Commerce, as part of the combined degree, is available to meritorious candidates by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component after completion of requirements for the combined degree.
(b) For candidates completing the Bachelor of Science or Bachelor of Commerce as part of a combined degree with the Bachelor of Advanced Computing and also completing an embedded honours component in the Bachelor of Advanced Studies, the requirement in the Bachelor of Advanced Studies for completion of a second major shall be met by the Information Technology major specified in 6 (4) (b) or 6 (5) (b).

10. Award of the Degrees
(1) The Bachelor of Advanced Computing degree is awarded with honours. The honours degree is awarded in classes ranging from First Class to Second Class, Division Two. The various classes of Honours are awarded on the basis of a candidate’s EIHWM, provided the provided the condition of clause 9 (2) is satisfied.

<table>
<thead>
<tr>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>75 &lt;= EIHWM</td>
</tr>
<tr>
<td>Honours Class II (Division 1)</td>
<td>70 &lt;= EIHWM &lt;=75</td>
</tr>
<tr>
<td>Honours Class II (Division 2)</td>
<td>65 &lt;= EIHWM &lt;=70</td>
</tr>
</tbody>
</table>

Candidates who do not meet the requirements for honours in the Bachelor of Advanced Computing but who have otherwise satisfied the course requirements, will be awarded the pass degree.

(1) Candidates for the Bachelor of Advanced Computing degree who did not meet the requirements for the Honours degree specified in 9 (2) will be awarded the Bachelor of Advanced Computing.
(2) Honours in the Bachelor of Advanced Computing is awarded in classes ranging from First Class to Third Class. The various classes of Honours are awarded on the basis of a candidate’s HWAM.

<table>
<thead>
<tr>
<th>Description</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Honours Class I</td>
<td>80 &lt;= WAM</td>
</tr>
<tr>
<td>Honours Class II (Division 1)</td>
<td>75 &lt;= WAM &lt; 80</td>
</tr>
<tr>
<td>Honours Class II (Division 2)</td>
<td>70 &lt;= WAM &lt; 75</td>
</tr>
<tr>
<td>Honours Class III</td>
<td>65 &lt;= WAM &lt; 70</td>
</tr>
<tr>
<td>Honours not awarded (Pass)</td>
<td>WAM &lt; 65</td>
</tr>
</tbody>
</table>

(3) The Bachelor of Science and the Bachelor of Commerce are awarded at pass level. Honours in Science or Commerce is taken by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component.
(4) Candidates who attempt the Bachelor of Science or Bachelor of Commerce as part of a combined degree with the Bachelor of Advanced Computing with an embedded honours component in the Bachelor of Advanced Studies who do not meet the requirements for honours but who meet the requirement for the pass degree, may be awarded the relevant degree or combined degree at pass level for which they fulfill requirements.
11. **Cross-institutional study**

Cross-institutional study is not available in the Bachelor of Computing or Bachelor of Advanced Computing. Cross-institutional study in the Bachelor of Commerce or Bachelor of Science is as specified in the relevant degree and faculty resolutions.

12. **International exchange**

The faculties of Engineering and Information Technology, Science and Commerce encourage candidates in these degrees to participate in international exchange programs subject to the terms set out in the Resolutions of the Faculty of Engineering and Information Technology.

13. **Course Transfer**

(1) A candidate enrolled in the Bachelor of Advanced Computing who has satisfied the requirements of the Bachelor of Computing may transfer to the Bachelor of Computing and graduate.

(2) A candidate in a combined degree with the Bachelor of Advanced Computing may abandon that combined degree and elect to complete either the Bachelor of Advanced Computing or the other component of the combined degree (the Bachelor of Science or the Bachelor of Commerce) in accordance with the resolutions governing that degree.

(3) A candidate who, having satisfied requirements for a combined degree with the Bachelor of Advanced Computing, who has enrolled in the Bachelor of Advanced Studies to complete an embedded honours component as specified in 9 (3) (a) may abandon the Bachelor of Advanced Studies and graduate with the Bachelor of Advanced Computing or the associated combined degree in accordance with the resolutions governing that degree or those degrees.

14. **Credit for previous study**

Credit transfer is subject to the provisions of the Coursework Policy and the Resolutions of the Faculty of Engineering and Information Technologies and also, for students enrolled in combined degrees, the resolutions of the relevant faculty.

15. **Transitional Provisions**

(1) These resolutions apply to students who commenced their candidature after 1 January, 2018.

(2) Candidates who commenced prior to 1 January, 2020 may:

(a) complete the requirements in accordance with the resolutions governing their candidature immediately prior to these changes; or

(b) where approved by the Faculty, elect to proceed under these resolutions provided appropriate programs of study can be identified.
Appendix 2

Bachelor of Advanced Computing

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
</table>

Award requirements

Bachelor of Advanced Computing

To qualify for the award of the Bachelor of Advanced Computing, a candidate must complete 192 credit points, comprising:
(a) 96 credit points of degree core units of study as set out in the table below;
(b) A major (48 credit points) from the list of majors from the table below;
(c) At least 12 credit points of 4000-level or higher electives from the table below;
(d) (Optionally) up to 12 credit points of units of study in the Open Learning Environment as listed in Table O in the Shared Pool for Undergraduate Degrees;
(e) (Optionally) a minor of 36 credit points or a second major of 48 credit points as listed and specified in Table S in the Shared Pool for Undergraduate Degrees;
(f) Where appropriate, additional elective units from the table below or Table S in the Shared Pool for Undergraduate Degrees.

Bachelor of Computing

To qualify for the award of the Bachelor of Computing, a candidate must complete 144 credit points, comprising:
(a) 78 credit points of degree core units as set out in the table below;
(b) A major (48 credit points) from the list of majors from the table below;
(c) (Optionally) up to 12 credit points of units of study in the Open Learning Environment as listed in Table O in the Shared Pool for Undergraduate Degrees;
(d) (Optionally) a minor of 36 credit points as listed and specified in Table S in the Shared Pool for Undergraduate Degrees;
(e) Where appropriate, additional elective units from the table below.

Streams

The available streams in the Bachelor of Advanced Computing are:
Dalyell

Achievement of the Dalyell stream requires:
(i) Completion of 12 credit points of Dalyell units as set out in Table S;
(ii) Admission on the basis of ATAR or first year WAM as determined by the Board of Interdisciplinary Studies;
(iii) Maintenance of the required WAM as determined by the Board of Interdisciplinary Studies.

Majors

Table A majors available in this course are:
Computer Science
Computational Data Science
Information Systems
Software Development

Requirements from the majors are listed in the Majors tabs in this Handbook.

Minors

Table A minors available in this course are:
Computer Science
Computational Data Science
Information Systems
Software Development

Requirements from the minors are listed alongside the major requirements in the Majors tabs in this Handbook.
Honours

To be eligible for the award of Honours in the Bachelor of Advanced Computing, a candidate must complete 18 credit points of thesis units (INFO4001, INFO4002 and INFO4003) based on a research project, and 6 credit points of research methods (INFO4990), as listed below, and meet the performance levels as specified in clause 10 of the degree resolutions.

Degree Core

The degree core units of study required for this course are listed below. Candidates who exit at the third year do not complete the 4000-level degree core units and graduate with a Bachelor of Computing.

### 1000-level units of study

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
<th>Corequisites</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA1001</td>
<td>Foundations of Data Science</td>
<td>6</td>
<td>N DATA1901 or MATH1005 or MATH1905 or MATH1015 or MATH1115 or ENVX1001 or ENVX1002 or ECMT1010 or BUSS1020 or STAT1021 or STAT1022</td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>DATA1901</td>
<td>Foundations of Data Science (Adv)</td>
<td>6</td>
<td>A An ATAR of 95 or more N MATH1905 or ECMT1010 or ENVX2001 or BUSS1020 or DATA1001 or MATH1115</td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>ELEC1601</td>
<td>Introduction to Computer Systems</td>
<td>6</td>
<td>A HSC Mathematics extension 1 or 2</td>
<td>Semester 2</td>
</tr>
<tr>
<td>INFO1110</td>
<td>Introduction to Programming</td>
<td>6</td>
<td>N INFO1910 OR INFO1103 OR INFO1903 OR INFO1105 OR INFO1905</td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>INFO1111</td>
<td>Computing 1A Professionalism</td>
<td>6</td>
<td>N ENGG1805 OR ENGG1111 OR ENGD1000</td>
<td>Semester 1</td>
</tr>
<tr>
<td>INFO1112</td>
<td>Computing 1B OS and Network Platforms</td>
<td>6</td>
<td>C ELEC1601 AND (INFO1110 OR INFO1910 OR INFO1103 OR INFO1113)</td>
<td>Semester 2</td>
</tr>
<tr>
<td>INFO1113</td>
<td>Object-Oriented Programming</td>
<td>6</td>
<td>P INFO1110 OR INFO1910 N INFO1103 OR INFO1105 OR INFO1905</td>
<td>Semester 1 Semester 2 Summer Main</td>
</tr>
<tr>
<td>INFO1910</td>
<td>Introduction to Programming (Advanced)</td>
<td>6</td>
<td>A ATAR sufficient to enter Dalyell program, or passing an online programming knowledge test, which will be administered during the O-week prior to the commencement of the semester. N INFO1110 OR INFO1103 OR INFO1903 OR INFO1105 OR INFO1905</td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>MATH1002</td>
<td>Linear Algebra</td>
<td>3</td>
<td>A HSC Mathematics or MATH1111. Students who have not completed HSC Mathematics (or equivalent) are strongly advised to take the Mathematics Bridging Course (offered in February). N MATH1012 or MATH1014 or MATH1902</td>
<td>Semester 1 Summer Main</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credits</td>
<td>Prerequisites</td>
<td>Semester</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------</td>
<td>---------</td>
<td>-------------------------------------------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>MATH1021</td>
<td>Calculus Of One Variable</td>
<td>3</td>
<td>A HSC Mathematics Extension 1 or equivalent. P NSW HSC 2 unit Mathematics or equivalent or a credit or above in MATH1111 N MATH1011 or MATH1901 or MATH1906 or ENVX1001 or MATH1001 or MATH1921 or MATH1931</td>
<td>1, 2, Summer, Main</td>
</tr>
<tr>
<td>MATH1064</td>
<td>Discrete Mathematics for Computation</td>
<td>6</td>
<td>N MATH1004 or MATH1904</td>
<td>2</td>
</tr>
</tbody>
</table>

**2000-level units of study**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP2123</td>
<td>Data Structures and Algorithms</td>
<td>6</td>
<td>P INFO1110 OR INFO1910 OR INFO1113 OR DATA1002 OR DATA1902 OR INFO1103 OR INFO1903 N INFO1105 OR INFO1905 OR COMP2823</td>
<td>1</td>
</tr>
<tr>
<td>COMP2823</td>
<td>Data Structures and Algorithms (Adv)</td>
<td>6</td>
<td>P INFO1110 OR INFO1910 OR INFO1113 OR DATA1002 OR DATA1902 OR INFO1103 OR INFO1903 N INFO1105 OR INFO1905 OR COMP2123</td>
<td>1</td>
</tr>
</tbody>
</table>

*Note: Department permission required for enrolment*

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO2222</td>
<td>Computing 2 Usability and Security</td>
<td>6</td>
<td>P (INFO1103 OR INFO1105 OR INFO1905 OR INFO1113) AND (INFO1111 OR INFO1711 OR ENGG1111 OR ENGD1000 OR ENGG1805)</td>
<td>1</td>
</tr>
<tr>
<td>ISYS2120</td>
<td>Data and Information Management</td>
<td>6</td>
<td>A Programming skills P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905 OR INFO1003 OR INFO1903 OR DECO1012 N INFO2120 OR INFO2820 OR COMP5138</td>
<td>2</td>
</tr>
<tr>
<td>SOFT2412</td>
<td>Agile Software Development Practices</td>
<td>6</td>
<td>P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905</td>
<td>2</td>
</tr>
</tbody>
</table>

**3000-level units of study**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO3333</td>
<td>Computing 3 Management</td>
<td>6</td>
<td>P (INFO1111 OR INFO1711) AND (ISYS2120 OR INFO2120) AND SOFT2412 N INFO3402</td>
<td>1</td>
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</table>

**4000-level units of study**

INFO4444 - Computing 4 Innovation will be available from 2020.

**Honours units**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO4001</td>
<td>Thesis A</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>INFO4002</td>
<td>Thesis B</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>INFO4003</td>
<td>Thesis B Extended</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>INFO4444</td>
<td>Computing 4 Innovation</td>
<td>6</td>
<td>1</td>
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INFO4001 OR INFO4002 OR INFO4003 OR INFO4001 OR INFO4990
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO4990</td>
<td>IT Research Methods</td>
<td>6</td>
<td>N INFO4444 OR INFO5993&lt;br&gt;Note: Department permission required for enrolment</td>
<td>Semester 1&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td></td>
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<tr>
<td></td>
<td><strong>Electives</strong></td>
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<tr>
<td></td>
<td><strong>2000-level units of study</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMP2017</td>
<td>Systems Programming</td>
<td>6</td>
<td>P INFO1113 OR INFO1105 OR INFO1905 OR INFO1103&lt;br&gt;C COMP2123 OR COMP2823 OR INFO1905&lt;br&gt;N COMP2129</td>
<td>Semester 1&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>COMP2022</td>
<td>Programming Languages, Logic and Models</td>
<td>6</td>
<td>A MATH1004 OR MATH1904 OR MATH1064 OR MATH2069 OR MATH2969&lt;br&gt;P INFO1103 OR INFO1903 OR INFO1113&lt;br&gt;N COMP2922</td>
<td>Semester 2&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>COMP2922</td>
<td>Programming Languages, Logic and Models (Adv)</td>
<td>6</td>
<td>A MATH1004 OR MATH1904 OR MATH1064 OR MATH2069 OR MATH2969&lt;br&gt;P Distinction level result in INFO1103 OR INFO1903 OR INFO1113&lt;br&gt;N COMP2022</td>
<td>Semester 2&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>DATA2001</td>
<td>Data Science: Big Data and Data Diversity</td>
<td>6</td>
<td>P DATA1002 OR DATA1902 OR INFO1110 OR INFO1910 OR INFO1903 OR INFO1103&lt;br&gt;N DATA2901</td>
<td>Semester 1&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>DATA2002</td>
<td>Data Analytics: Learning from Data</td>
<td>6</td>
<td>A Basic Linear Algebra and some coding&lt;br&gt;P [DATA1001 or ENVI1001 or ENVI1002] or [MATH10X5 and MATH1115] or [MATH10X5 and STAT2011] or [MATH1905 and MATH1XXX (except MATH1XX5)] or [BUSS1020 or ECMT1010 or STAT1021]&lt;br&gt;N STAT2012 or STAT2912 or DATA2902</td>
<td>Semester 2&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>DATA2901</td>
<td>Big Data and Data Diversity (Advanced)</td>
<td>6</td>
<td>P DATA1002 OR DATA1902 OR INFO1110 OR INFO1903 OR INFO1103&lt;br&gt;N DATA2901</td>
<td>Semester 1&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>DATA2902</td>
<td>Data Analytics: Learning from Data (Adv)</td>
<td>6</td>
<td>A Basic linear algebra and some coding for example MATH1014 or MATH1002 or MATH1902 and DATA1001 or DATA1901&lt;br&gt;P A mark of 65 or above in any of the following (DATA1001 or DATA1901 or ENVI1001 or ENVI1002) or (MATH10X5 and MATH1115) or (MATH10X5 and STAT2011) or (MATH1905 and MATH1XXX [except MATH1XX5]) or (BUSS1020 or ECMT1020 or STAT1021)&lt;br&gt;N STAT2012 or STAT2912 or DATA2002</td>
<td>Semester 2&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>INFO2150</td>
<td>Introduction to Health Data Science</td>
<td>6</td>
<td>A Basic knowledge of Entity Relationship Modelling, database technology and SQL&lt;br&gt;P (INFO1003 OR INFO1903 OR INFO1103 OR INFO1110 OR INFO1910 OR DATA1002 OR DATA1902) AND (DATA1001 OR MATH1005 OR MATH1905 OR MATH1015 OR BUSS1020)&lt;br&gt;C DATA2001 OR DATA2901 OR ISYS2120 OR INFO2120 OR INFO2820 OR INFO1903</td>
<td>Semester 2&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>ISYS2110</td>
<td>Analysis and Design of Web Info Systems</td>
<td>6</td>
<td>P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905&lt;br&gt;N INFO2110</td>
<td>Semester 1&lt;br&gt; Semester 2</td>
</tr>
<tr>
<td>ISYS2160</td>
<td>Information</td>
<td>6</td>
<td>A INFO1003 OR INFO1103 OR INFO1903 OR INFO1113&lt;br&gt;N ISYS2140</td>
<td>Semester 2&lt;br&gt; Semester 2</td>
</tr>
</tbody>
</table>
### Systems in the Internet Age

**SOFT2201 Software Construction and Design 1**

6  
P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905  
N INFO3220  
Semester 2

#### 3000-level units of study

**COMP3027 Algorithm Design**

6  
A MATH1004 OR MATH1904 OR MATH1064  
P COMP2123 OR COMP2823 OR INFO1105 OR INFO1905  
N COMP2007 OR COMP2907 OR COMP3927  
Semester 1

**COMP3109 Programming Languages and Paradigms**

6  
P COMP2022 AND (COMP2007 OR COMP2907)  
Semester 2

**COMP3221 Distributed Systems**

6  
P (INFO1105 OR INFO1905) OR ((INFO1103 OR INFO1113) AND (COMP2123 OR COMP2823))  
N COMP2121  
Semester 1

**COMP3308 Introduction to Artificial Intelligence**

6  
A Algorithms. Programming skills (e.g. Java, Python, C, C++, Matlab)  
N COMP3608  
Semester 1

**COMP3419 Graphics and Multimedia**

6  
A Programming skills  
P COMP2123 OR COMP2823 OR INFO1105 OR INFO1905  
Semester 2

**COMP3520 Operating Systems Internals**

6  
P (COMP2017 OR COMP2129) AND (COMP2123 OR COMP2823 OR INFO1105 OR INFO1905)  
Semester 2

**COMP3608 Introduction to Artificial Intelligence (Adv)**

6  
A Algorithms. Programming skills (e.g. Java, Python, C, C++, Matlab)  
P Distinction-level results in at least one 2000 level COMP or MATH or SOFT unit  
N COMP3308  
Semester 1

**COMP3888 Computer Science Project**

6  
P (COMP2123 OR COMP2823) AND COMP2017 AND (COMP2022 OR COMP2922)  
N INFO3600 OR COMP3600 OR COMP3615 OR COMP3988  
Semester 2

**COMP3927 Algorithm Design (Adv)**

6  
A MATH1004 OR MATH1904 OR MATH1064  
P COMP2123 OR COMP2823 OR INFO1105 OR INFO1905  
N COMP2007 OR COMP2907 OR COMP3027  
Semester 1

Note: Department permission required for enrolment

**COMP3988 Computer Science Project (Advanced)**

6  
P [(COMP2123 OR COMP2823) AND COMP2017 AND (COMP2022 OR COMP2922) with Distinction level results in at least one of these units.]  
N INFO3600 OR COMP3615 OR COMP3600 OR COMP3888  
Semester 2

Note: Department permission required for enrolment

**DATA3404 Data Science Platforms**

6  
A This unit of study assumes that students have previous knowledge of database structures and of SQL. The prerequisite material is covered in DATA2001 or ISYS2120. Familiarity with a programming language (e.g. Java or C) is also expected.  
P DATA2001 OR DATA2901 OR ISYS2120 OR INFO2120 OR INFO2820  
N INFO3504 OR INFO3404  
Semester 1
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Requirements</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA3406</td>
<td>Human-in-the-Loop Data Analytics</td>
<td>6</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DATA3888</td>
<td>Data Science Capstone</td>
<td>6</td>
<td>P DATA2001 or DATA2901 or DATA2002 or DATA2902 or STAT2912 or STAT2012</td>
<td>Semester 2</td>
</tr>
<tr>
<td>ENGG3800</td>
<td>Industry and Community Projects</td>
<td>6</td>
<td>A Upper-level disciplinary knowledge. Required knowledge will vary by project. Note: Department permission required for enrolment</td>
<td>Intensive December, Intensive January, Intensive February, July Semester 1 Semester 2</td>
</tr>
<tr>
<td>INFO3315</td>
<td>Human-Computer Interaction</td>
<td>6</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>INFO3616</td>
<td>Principles of Security and Security Eng</td>
<td>6</td>
<td>A (INFO1110 OR INFO1910) AND INFO1112 AND INFO1113 AND MATH1064. Knowledge equivalent to the above units is assumed. This means good programming skills in Python or a C-related language, basic networking knowledge, and skills from discrete mathematics. A technical orientation is absolutely required, especially capacity to become familiar with new technology without explicit supervision. N ELEC5616 OR INFO2315</td>
<td>Semester 2</td>
</tr>
<tr>
<td>ISYS3401</td>
<td>Information Technology Evaluation</td>
<td>6</td>
<td>P (INFO2110 OR ISYS2110) AND (INFO2120 OR ISYS2120) AND (ISYS2140 OR ISYS2160)</td>
<td>Semester 1</td>
</tr>
<tr>
<td>ISYS3402</td>
<td>Decision Analytics and Support Systems</td>
<td>6</td>
<td>A Database Management AND Systems Analysis and Modelling P (ISYS2110 OR INFO2110) AND (ISYS2120 OR INFO2120)</td>
<td>Semester 2</td>
</tr>
<tr>
<td>ISYS3888</td>
<td>Information Systems Project</td>
<td>6</td>
<td>P (INFO2110 OR ISYS2110) AND (INFO2120 OR ISYS2120) AND (ISYS2140 OR ISYS2160) N INFO3600 OR ISYS3207 OR ISYS3400</td>
<td>Semester 2</td>
</tr>
<tr>
<td>SOFT3202</td>
<td>Software Construction and Design 2</td>
<td>6</td>
<td>P SOFT2201 N INFO3220</td>
<td>Semester 1</td>
</tr>
<tr>
<td>SOFT3410</td>
<td>Concurrency for Software Development</td>
<td>6</td>
<td>P (INFO1105 OR INFO1905) OR ((INFO1103 OR INFO1113) AND (COMP2123 OR COMP2823))</td>
<td>Semester 2</td>
</tr>
<tr>
<td>SOFT3888</td>
<td>Software Development Project</td>
<td>6</td>
<td>A SOFT3202 P [18CP 2000-level or above units from SOFT, COMP or INFO] N SOFT3413</td>
<td>Semester 2</td>
</tr>
<tr>
<td>4000-level units of study</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>INFO4003</td>
<td>Thesis B Extended</td>
<td>6</td>
<td>C INFO4001 OR INFO4002</td>
<td>Semester 1 Semester 2</td>
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</table>
**INFO4003 Thesis B (extension) will be available from 2020.**

### 5000-level units of study

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Points</th>
<th>Level</th>
<th>Description</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMP5045</td>
<td>Computational Geometry</td>
<td>6</td>
<td>A</td>
<td>Students are assumed to have a basic knowledge of the design and analysis of algorithms and data structures: you should be familiar with big-O notations and simple algorithmic techniques like sorting, binary search, and balanced search trees.</td>
<td>1</td>
</tr>
<tr>
<td>COMP5046</td>
<td>Natural Language Processing</td>
<td>6</td>
<td>A</td>
<td>Knowledge of an OO programming language</td>
<td>1</td>
</tr>
<tr>
<td>COMP5047</td>
<td>Pervasive Computing</td>
<td>6</td>
<td>A</td>
<td>ELEC1601 AND (COMP2129 OR COMP2017). Background in programming and operating systems that is sufficient for the student to independently learn new programming tools from standard online technical materials.</td>
<td>2</td>
</tr>
<tr>
<td>COMP5048</td>
<td>Visual Analytics</td>
<td>6</td>
<td>A</td>
<td>It is assumed that students will have basic knowledge of data structures, algorithms and programming skills.</td>
<td>2</td>
</tr>
<tr>
<td>COMP5216</td>
<td>Mobile Computing</td>
<td>6</td>
<td>A</td>
<td>COMP5214 OR COMP9103. Software Development in JAVA, or similar introductory software development units.</td>
<td>2</td>
</tr>
<tr>
<td>COMP5313</td>
<td>Large Scale Networks</td>
<td>6</td>
<td>A</td>
<td>Algorithmic skills (as expected from any IT graduate). Basic probability knowledge.</td>
<td>1</td>
</tr>
<tr>
<td>COMP5318</td>
<td>Machine Learning and Data Mining</td>
<td>6</td>
<td>A</td>
<td>INFO2110 OR ISYS2110 OR COMP9120 OR COMP5138</td>
<td>1 2</td>
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<tr>
<td>COMP5328</td>
<td>Advanced Machine Learning</td>
<td>6</td>
<td>A</td>
<td>COMP5318</td>
<td>2</td>
</tr>
<tr>
<td>COMP5329</td>
<td>Deep Learning</td>
<td>6</td>
<td>A</td>
<td>COMP5318</td>
<td>1</td>
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<tr>
<td>COMP5338</td>
<td>Advanced Data Models</td>
<td>6</td>
<td>A</td>
<td>This unit of study assumes foundational knowledge of relational database systems as taught in COMP5138/COMP9120 (Database Management Systems) or INFO2120/INFO2820/ISYS2120 (Database Systems 1).</td>
<td>2</td>
</tr>
<tr>
<td>COMP5347</td>
<td>Web Application Development</td>
<td>6</td>
<td>A</td>
<td>COMP9220 or COMP5028. The course assumes basic knowledge on OO design and proficiency in a programming language P INFO1103 or INFO1113 or COMP9103 or COMP9220 or COMP5028</td>
<td>1</td>
</tr>
<tr>
<td>COMP5348</td>
<td>Enterprise Scale Software Architecture</td>
<td>6</td>
<td>A</td>
<td>Programming competence in Java or similar OO language. Capacity to master novel technologies (especially to program against novel APIs) using manuals, tutorial examples, etc.</td>
<td>1</td>
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<tr>
<td>COMP5349</td>
<td>Cloud Computing</td>
<td>6</td>
<td>A</td>
<td>Good programming skills, especially in Java for the practical assignment, as well as proficiency in databases and SQL. The unit is expected to be taken after introductory courses in related units such as COMP5214 or COMP9103 Software Development in JAVA</td>
<td>1</td>
</tr>
<tr>
<td>COMP5415</td>
<td>Multimedia Design and Authoring</td>
<td>6</td>
<td></td>
<td></td>
<td>2</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
<td>Prerequisites</td>
<td>Semester</td>
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<tr>
<td>COMP5416</td>
<td>Advanced Network Technologies</td>
<td>6</td>
<td>A ELEC3506 OR ELEC9506 OR ELEC5740 OR COMP5116</td>
<td>2</td>
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</tr>
<tr>
<td>COMP5424</td>
<td>Information Technology in Biomedicine</td>
<td>6</td>
<td></td>
<td>1</td>
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<tr>
<td>COMP5425</td>
<td>Multimedia Retrieval</td>
<td>6</td>
<td>A COMP9007 or COMP5211. Basic Programming skills and data structure knowledge.</td>
<td>1</td>
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<tr>
<td>COMP5426</td>
<td>Parallel and Distributed Computing</td>
<td>6</td>
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<tr>
<td>COMP5427</td>
<td>Usability Engineering</td>
<td>6</td>
<td></td>
<td>2</td>
<td></td>
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<tr>
<td>COMP5417</td>
<td>Empirical Security Analysis and Engineering</td>
<td>6</td>
<td>A Students are expected to have: Good programming skills in Go, Python, or C. UNIX/Linux command-line and tools Technical orientation and foundational networking knowledge Sufficient mathematical skills to understand cryptography Experience working with version control</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>COMP5418</td>
<td>Applied Cybersecurity</td>
<td>6</td>
<td>A (ELEC5616 OR ELEC3506 OR INFO2315 OR INFO2222) with a grade of Credit or greater</td>
<td>2</td>
<td></td>
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<td><em>Note: Department permission required for enrolment</em></td>
<td></td>
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<tr>
<td>DATA5207</td>
<td>Data Analysis in the Social Sciences</td>
<td>6</td>
<td>A COMP5310</td>
<td></td>
<td></td>
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<tr>
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<td></td>
<td></td>
<td><em>Note: Department permission required for enrolment</em></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELEC5306</td>
<td>Advanced Signal Processing: Video Compression</td>
<td>6</td>
<td>A Basic understanding of digital signal processing (filtering, DFT) and programming skills (e.g. Matlab/Java/Python/C++)</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC5307</td>
<td>Advanced Signal Processing with Deep Learning</td>
<td>6</td>
<td>A Mathematics (e.g., probability and linear algebra) and programming skills (e.g. Matlab/Java/Python/C++)</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC5508</td>
<td>Wireless Engineering</td>
<td>6</td>
<td>A Basic knowledge in probability and statistics, analog and digital communications, error probability calculation in communications channels, and telecommunications network.</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC5509</td>
<td>Mobile Networks</td>
<td>6</td>
<td>A ELEC3505 AND ELEC3506. Basically, students need to know the concepts of data communications and mobile communications, which could be gained in one the following units of study: ELEC3505 Communications, ELEC3506 Data Communications and the Internet, or similar units. If you are not sure, please contact the instructor.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC5514</td>
<td>Networked Embedded Systems</td>
<td>6</td>
<td>A ELEC3305 AND ELEC3506 AND ELEC3607 AND ELEC5508</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>ELEC5616</td>
<td>Computer and Network Security</td>
<td>6</td>
<td>A A programming language, basic maths.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ELEC5618</td>
<td>Software Quality Engineering</td>
<td>6</td>
<td>A Writing programs with multiple functions or methods in multiple files; design of complex data structures and combination in non trivial algorithms; use of an integrated development environment; software version control systems.</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Unit Code</td>
<td>Unit Title</td>
<td>Credit Points</td>
<td>Description</td>
<td>Semester</td>
<td></td>
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<tr>
<td>-----------</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
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</tr>
<tr>
<td>ELEC5619</td>
<td>Object Oriented Application Frameworks</td>
<td>6</td>
<td>A Java programming, and some web development experience are essential. Databases strongly recommended</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>ELEC5620</td>
<td>Model Based Software Engineering</td>
<td>6</td>
<td>A programming language, basic maths.</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>INFO5010</td>
<td>IT Advanced Topic A</td>
<td>6</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1, Semester 2</td>
<td></td>
</tr>
<tr>
<td>INFO5011</td>
<td>IT Advanced Topic B</td>
<td>6</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1, Semester 2</td>
<td></td>
</tr>
<tr>
<td>INFO5991</td>
<td>Services Science Management and Engineering</td>
<td>6</td>
<td>A INFO5990. Students are expected to have a degree in computer science, engineering, information technology, information systems or business.</td>
<td>Semester 1, Semester 2</td>
<td></td>
</tr>
<tr>
<td>INFO5992</td>
<td>Understanding IT Innovations</td>
<td>6</td>
<td>A INFO5990. P 24 credit points of units at 5000-level or above PMGT5875</td>
<td>Semester 1, Semester 2</td>
<td></td>
</tr>
<tr>
<td>INFO5993</td>
<td>IT Research Methods</td>
<td>6</td>
<td></td>
<td>Semester 1, Semester 2</td>
<td></td>
</tr>
<tr>
<td>INFO6010</td>
<td>Advanced Topics in IT Project Management</td>
<td>6</td>
<td>A Students are assumed to understand the role of IT projects. P INFO6007, OR 3-5 years working experience in IT Project Management</td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>ISYS5050</td>
<td>Knowledge Management Systems</td>
<td>6</td>
<td>A An undergraduate degree in Computer Science or Information Systems. Good grasp of database technologies and the role of information systems in organisations.</td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>ISYS5070</td>
<td>Change Management in IT</td>
<td>6</td>
<td>A The unit is expected to be taken after the following related units INFO6007 Project Management in IT and COMP5206 Information Technologies and Systems.</td>
<td>Summer Main</td>
<td></td>
</tr>
</tbody>
</table>

COMP5348 Enterprise Scale Software Architecture will not be offered in 2019.
Non-Confidential

<table>
<thead>
<tr>
<th>Author</th>
<th>Rebecca Goldsworthy, Faculty of Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewer/Approver</td>
<td>KC Wong, Deputy Head of School (Education), School of Aerospace, Mechanical and Mechatronic Engineering</td>
</tr>
<tr>
<td>Paper title</td>
<td>Replacement of core unit in Bachelor of Engineering (Honours) Aeronautical, Biomedical, Mechanical and Mechatronic streams</td>
</tr>
<tr>
<td>Purpose</td>
<td>To amend the Bachelor of Engineering (Honours) Aeronautical, Biomedical, Mechanical and Mechatronic streams to replace core unit ENGG1802 with AMME1802 Engineering Dynamics</td>
</tr>
</tbody>
</table>

RECOMMENDATION

That the Undergraduate Studies Committee recommend that the Academic Board:

1. approve the proposal from the Faculty of Engineering to amend the Bachelor of Engineering (Honours) Aeronautical, Biomedical, Mechanical and Mechatronic streams; and

2. approve the amendment of unit of study tables arising from this proposal, with effect from 1 January 2020.

EXECUTIVE SUMMARY

It is proposed to amend the handbook tables of the Bachelor of Engineering (Honours) Aeronautical, Mechanical, Mechatronic, and Biomedical streams by replacing ENGG1802 with the re-badged unit of study, AMME1802 Engineering Dynamics.

Since the unit is no longer shared with the Civil Engineering stream, the academic content can now be more customised to the requirement of streams offered in AMME. It will thus achieve better curriculum integration with stream units such as AMME2301 Mechanics of Solids and AMME2500 Engineering Dynamics.

ATTACHMENTS

Attachment 1: Minor Course Amendment proposal – Bachelor of Engineering (Honours)
Minor Course Amendment Proposal

Faculty: Faculty of Engineering and Information Technologies

Contact person: Associate Professor KC Wong (x17143), Rebecca Goldsworthy (x14363)

1. Name of award course
   Bachelor of Engineering Honours (Aeronautical)
   Bachelor of Engineering Honours (Mechanical)
   Bachelor of Engineering Honours (Mechatronic)
   Bachelor of Engineering Honours (Biomedical)

2. Purpose of proposal
   To amend the handbook tables of the Bachelor of Engineering Honours (Aeronautical), Bachelor of Engineering Honours (Mechanical), Bachelor of Engineering Honours (Mechatronic), and Bachelor of Engineering Honours (Biomedical) by replacing ENGG1802 with the re-badged UOS, AMME1802.

   Since the unit is no longer shared with the Civil Engineering stream, the academic content can now be more customised to the requirement of streams offered in AMME. It will thus achieve better curriculum integration with stream units such as AMME2301 Mechanics of Solids and AMME2500 Engineering Dynamics.

3. Details of amendment
   Appendix 1: Bachelor of Engineering Honours (Aeronautical) handbook table
   Appendix 2: Bachelor of Engineering Honours (Mechanical) handbook table
   Appendix 3: Bachelor of Engineering Honours (Mechatronic) handbook table
   Appendix 4: Bachelor of Engineering Honours (Biomedical) handbook table

4. Transitional arrangements
   These arrangements apply to students who commenced their candidature after 1 January 2020.

5. Other relevant information
   Consultation has been undertaken with Prof Gregg Suaning from the School of Biomedical Engineering, as students in the Biomedical stream will also undertake the new AMME1802 unit. It has been agreed that examples of Biomechanics will be included in the content of AMME1802 to provide more immediate Biomedical relevance for students.

6. Signature of Dean
## Appendix 1

### Aeronautical Engineering Stream Table

#### Aeronautical Engineering Stream Table

**Aeronautical Stream Core units**

Complete all 108 credit points of the following units of study:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AERO1560</strong> Introduction to Aerospace Engineering</td>
<td>6</td>
<td>N ENGG1800 OR MECH1560 OR MTRX1701 OR CIVL1900 OR CHNG1108 OR AMME1900 OR BMET1900 OR ENGG1900</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AERO2703</strong> Aircraft Performance and Operations</td>
<td>6</td>
<td>A AERO1560 or ENGG1800, Familiarity with fundamental Aerospace concepts. P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923) AND ENGG1801</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>AERO3260</strong> Aerodynamics 1</td>
<td>6</td>
<td>A General conservation equations applied to fluid flow. Fundamental elements of potential flow; Vorticity and its effect on ideal flow; Basic mathematical skills required for plotting and graphing data; Linear algebra for solution of simultaneous linear equations; Fourier series; Complex numbers and complex functions. P (AMME2200 or AMME2261)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>AERO3261</strong> Propulsion</td>
<td>6</td>
<td>A Good knowledge of fluid dynamics and thermodynamics P AMME2200 or (AMME2261 and AMME2262)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME3360</strong> Aerospace Structures 1</td>
<td>6</td>
<td>P AMME2301</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME3460</strong> Aerospace Design 1</td>
<td>6</td>
<td>P AMME2301 and MECH2400</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME3560</strong> Flight Mechanics 1</td>
<td>6</td>
<td>A This Unit of Study builds on basic mechanics and aerodynamics material covered in previous Units and focuses it towards the analysis and understanding of aircraft flight mechanics. It is expected that students have satisfactorily completed the following material: ENGG1802 Engineering Mechanics: Forces, moments, equilibrium, momentum, energy, linear and angular motion. (ENGG1802 or AMME1802: Engineering Mechanics: Forces, moments, equilibrium, momentum, energy, linear and angular motion) AMME2500 Engineering Dynamics 1: Mechanisms, kinematics, frames of reference, mass and inertia, dynamics. If you struggled to pass AMME2500 and/or ENGG1802 (AMME1802 OR ENGG1802), you should spend some time revising the material of those Units of Study early in the semester. P AMME2500 OR AMME2600</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>AMME4460</strong> Aerospace Design 3</td>
<td>6</td>
<td>A AERO1400 and AERO2703 and AMME3465 P AERO3260 and AERO3261 and AERO3360 and AERO3460</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME1362</strong> Materials 1</td>
<td>6</td>
<td>A HSC Mathematics Extension 1 P CIVL2110 or AMME302</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>AMME2261</strong> Fluid Mechanics 1</td>
<td>6</td>
<td>A Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra. P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) N AMME2200</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME2262</strong> Thermal Engineering 1</td>
<td>6</td>
<td>A Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra. P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) N AMME2200</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>AMME2301</strong> Mechanics of Solids</td>
<td>6</td>
<td>P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) N CIVL2201</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td><strong>AMME2500</strong> Engineering Dynamics</td>
<td>6</td>
<td>A Familiarity with the MATLAB programming environment P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) AND ENGG1802 (AMME1802 OR ENGG1802)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME2700</strong> Instrumentation</td>
<td>6</td>
<td>A Programming skills, 1st year maths skills, familiarity with fundamental Engineering concepts. P AERO1560 OR MECH1560 OR MTRX1701 OR ENGG1800</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>AMME3500</strong> System Dynamics and Control</td>
<td>6</td>
<td>P AMME2500</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td><strong>ENGG1801</strong> Engineering Computing</td>
<td>6</td>
<td>N COSC1003</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Summer Main</td>
</tr>
<tr>
<td><strong>ENGG1802</strong> Engineering Mechanics</td>
<td>6</td>
<td>N CIVL1802</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2 Summer Main</td>
</tr>
<tr>
<td><strong>AMME1802</strong> Engineering Mechanics</td>
<td>8</td>
<td>N CIVL1802 OR ENGG1802</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2 Intensive</td>
</tr>
<tr>
<td><strong>MECH2400</strong> Mechanical Design 1</td>
<td>6</td>
<td>A ENGG1801 and ENGG1802 (AMME1802 OR ENGG1802), HSC Maths and Physics</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

Students undertaking the Space Major are exempt from AERO2703 and AERO4460.

Students in the combined BEHons/BA are exempt from AERO1560, and should take AMME2200 in place of AMME2261 and AMME2262.
## Aeronautical Stream Specialist units

Complete 48 credit points of the units listed below:

Select a minimum of 12 credit points from the following Aeronautical Advanced Specialist units:

### AERO4260 Aerodynamics 2
6  P  AMME2200 OR AMME2261

### AERO4360 Aerospace Structures 2
6  A  AERO3465
P  AERO3360

### AERO4560 Flight Mechanics 2
6  AMME2500 develops the basic principles of engineering mechanics and system dynamics that underpin this course. AERO3560 Flight Mechanics 1 develops the specifics of aircraft flight dynamics and stability. AMME3500 Systems control covers basic system theory and control system synthesis techniques.

P  AERO3960 and AMME3500

Select the remaining credit points from the following units:

### AERO1400 Intro to Aircraft Construction and Design
6  A  Some basic skills with engineering workshop hand tools is desirable.

### AMME2000 Engineering Analysis
6  P  (MATH1101 OR MATH1102 OR MATH1191 OR MATH1201 OR MATH1296 OR MATH131) AND (MATH1302 OR MATH1302) AND (MATH1303 Or MATH1323 OR MATH1323 OR MATH1907) AND (MATH1303 OR MATH1333) AND (ENGG1801 OR INFO1103 OR INFO1903 OR INFO1110 OR INFO1910 OR DATA1002 OR DATA1002)

### MATH2621 Vector Calculus and Differential Equations
6  P  (MATH121 OR MATH131 OR MATH132 OR MATH133) AND (MATH122 OR MATH131) AND (MATH130 OR MATH1302 OR MATH1303 OR MATH133)

### MATH2921 Vector Calculus and Differential Eq (Adv)
6  P  (MATH130 OR MATH131 OR MATH132 OR MATH133) OR (MATH120 OR MATH121 OR MATH130) OR (MATH130 OR MATH132 OR MATH133)

### AERO3465 Aerospace Design 2
6  A  AERO1400 AND AMME2302 AND AMME1362
P  AMME2301 and MECH2400

### AMME3060 Engineering Methods
6  P  AMME2000 OR MATH2067 OR (MATH2061 OR MATH2065)

### AERO5200 Advanced Aerodynamics
6  A  BE in the area of Aerospace Engineering or related Engineering field.

P  AERO3960 or AERO3360

Note: Department permission required for enrolment

### AERO5206 Rotary Wing Aircraft
6  A  Prior Learning: concepts from 3000 level Aerodynamics and Flight Mechanics will be applied to Rotary Wing Vehicles in this unit.

P  (AERO3260 OR AERO3261 OR AERO382) AND (AERO3560 OR AERO3560 OR AERO3560)

### AERO5400 Advanced Aircraft Design Analysis
6  A  Undergraduate level 1, 2 and 3 or Foundation Masters units in Aerospace Design are expected to have been completed before undertaking this unit.

P  AERO3460 OR AERO4860 OR AERO4860

N  AERO4491

### AERO5500 Flight Mechanics Test and Evaluation Adv
6  A  BE in area of Aerospace Engineering or related Engineering Field.

P  AERO2500 OR AERO3950 OR AERO3950

Note: Department permission required for enrolment

### AMME5060 Advanced Computational Engineering
6  A  Partial differential equations, Finite difference methods, Taylor series, Basic fluid mechanics including pressure, velocity, boundary layers, separated and recirculating flows. Basic computer programming skills.

Note: Department permission required for enrolment

### AMME5202 Computational Fluid Dynamics
6  A  Partial differential equations, Finite difference methods, Taylor series, Basic fluid mechanics including pressure, velocity, boundary layers, separated and recirculating flows. Basic computer programming skills.

Note: Department permission required for enrolment

### AMME5292 Advanced Fluid Dynamics
6  P  MECH3261 OR MECH9261 OR CIVL3612 OR CIVL9612 OR AERO3260 OR AERO9260

### AMME5510 Vibration and Acoustics
6  P  (AMME2301 OR AMME9301) AND (AMME2200 OR AMME2261 OR AMME9261) AND (AMME2500 OR AMME9500)

A maximum of 6 credit points can be selected from the Engineering General Elective Table.

Candidates enrolled in the Space major complete the following 18 credit points of units of study:

### AERO2705 Space Engineering 1
6  A  ENGG1801: First Year Maths and basic MATLAB programming skills.

P  (AERO1500 OR MECH1500 OR MTRX1700 OR ENGG1801) AND (MATH1001 OR MATH1021 OR MATH1091 OR MATH1201 OR MATH1201) AND (MATH1002 OR MATH1201 OR MATH1302 OR MATH1302) AND (MATH1003 OR MATH1203 OR MATH1303 OR MATH1923). Entry to this unit requires that students are eligible for the Space Engineering Major.

Note: Department permission required for enrolment

### AERO3760 Space Engineering 2
6  P  Students must have a 65% average in (AMME2500 AND AMME2261 AND AMME2301 AND AERO2705) OR (AMME2500 AND AMME2301 AND MTRX2700 AND AERO2705). Note: MUST have passed AERO2705

### AERO4701 Space Engineering 3
6  P  (65% average in (AERO3460 AND AERO3360 AND AERO3560 AND AERO3760) OR (MATH3290 AND MECH3281 AND MECH3361 AND AERO3760) OR (MATH3290 AND AMME3500 AND MTRX3700 AND AERO3760) AND [Must have passed AERO3760]). Students must have achieved a 65% average mark in 3rd year for enrolment in this unit.

For a standard enrolment plan for Aeronautical Engineering visit CUSP (https://cusp.sydney.edu.au).
## Mechanical Engineering Stream Table

### Mechanical Engineering Stream Core units

Complete all 108 credit points of the following units of study:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMME1362 Materials 1</td>
<td>6</td>
<td>A HSC Mathematics Extension 1</td>
<td>N CIVL2110 or AMME2302</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGG1801 Engineering Computing</td>
<td>6</td>
<td>N COSC1003</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENGG1802 Engineering Mechanics</td>
<td>6</td>
<td>N CIVL1802</td>
<td></td>
<td></td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>AMME1802 Engineering Mechanics</td>
<td>6</td>
<td>N CIVL1802 OR ENGG1802</td>
<td></td>
<td></td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>MECH1560 Introduction to Mechanical Engineering</td>
<td>6</td>
<td>N AERO1560 OR MTRX1701 OR ENGG1800 OR CIVL1900 OR CHNG1108 OR AMME1960 OR BMET1960 OR ENGG1960</td>
<td>Limited Places due to TAFE component. Department Permission required for non-BE(Mech) students.</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME2000 Engineering Analysis</td>
<td>6</td>
<td>P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1902 OR MATH1903 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1902) AND MATH1923 OR MATH1907 OR MATH1933) AND (AMME1801 OR ENGG1800 OR INFO1103 OR INFO1903 OR INFO1110 OR INFO1910 OR DATA1002 OR DATA1902)</td>
<td></td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME2261 Fluid Mechanics 1</td>
<td>6</td>
<td>A Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra.</td>
<td>P (MATH1001 OR MATH1901 OR MATH1902 OR MATH1903 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1902) AND MATH1923 OR MATH1907 OR MATH1933</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME2262 Thermal Engineering 1</td>
<td>6</td>
<td>A Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra.</td>
<td>P (MATH1001 OR MATH1901 OR MATH1902 OR MATH1903 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1902) AND MATH1923 OR MATH1907 OR MATH1933</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME2301 Mechanics of Solids</td>
<td>6</td>
<td>P ENGG1801 AND (AMME1802 OR ENGG1802) AND (MATH1001 OR MATH1021 OR MATH1901 OR MATH1902 OR MATH1903 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1902) AND MATH1923 OR MATH1907 OR MATH1933</td>
<td>N CIVL2201</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME2500 Engineering Dynamics</td>
<td>6</td>
<td>A Familiarity with the MATLAB programming environment</td>
<td>P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1902 OR MATH1903 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1902) AND MATH1923 OR MATH1907 OR MATH1933) AND ENGG1802 AND AMME1802 OR ENGG1802</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME2700 Instrumentation</td>
<td>6</td>
<td>A Programming skills, 1st year maths skills, familiarity with fundamental Engineering concepts.</td>
<td>P AERO1560 OR MECH1560 OR MTRX1701 OR ENGG1800</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH2400 Mechanical Design 1</td>
<td>6</td>
<td>A ENGG1801 and ENGG1802</td>
<td>AMME1802 OR ENGG1802, HSC Maths and Physics</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AMME3500 System Dynamics and Control</td>
<td>6</td>
<td>P AMME2500</td>
<td></td>
<td></td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MECH3260 Thermal Engineering 2</td>
<td>6</td>
<td>A Fundamentals of thermodynamics and fluid mechanics are needed to begin this more advanced course</td>
<td>P AMME2200 OR AMME2262</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH3261 Fluid Mechanics 2</td>
<td>6</td>
<td>P AMME2200 OR (AMME2261 AND AMME2262)</td>
<td></td>
<td></td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MECH3361 Mechanics of Solids 2</td>
<td>6</td>
<td>P AMME2301 AND (AMME1362 OR AMME2302 OR CIVL2110)</td>
<td></td>
<td></td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>MECH3362 Materials 2</td>
<td>6</td>
<td>A (1) A good understanding of basic knowledge and principles of material science and engineering from Materials 1 and mechanics of solids for simple structural elements (in tension, bending, torsion). (2) Reasonable mathematical skills in calculation of stresses and strains in simple structural elements.</td>
<td>P AMME2301 AND (AMME2302 OR AMME1362 OR CIVL2110)</td>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH3460 Mechanical Design 2</td>
<td>6</td>
<td>A Properties of engineering materials including fatigue failure theories. Statics and dynamics properties of machines.</td>
<td>P MECH2400 and AMME2301</td>
<td>Semester 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH3660 Manufacturing Engineering</td>
<td>6</td>
<td>P MECH2400 OR ENGG1800 OR AMME1960 OR BMET1960 OR MECH1560 OR ENGG1800</td>
<td></td>
<td></td>
<td>Semester 1</td>
<td></td>
</tr>
</tbody>
</table>

Candidates for the Space Major are exempt from AMME2000 and MECH3460.

Candidates in the combined BEHons/BA are exempt from MECH1560, and should take AMME2200 in place of AMME2261 and AMME2262.
## Mechanical Engineering Stream Specialist units

Complete 48 credit points of the units listed below:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH1400 Mechanical Construction</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MATH2921 Vector Calculus and Differential Equations</td>
<td>6</td>
<td>P (MATH1X21 or MATH1X31 or MATH1X01 or MATH1906) and (MATH1XX2) and (MATH1X23 or MATH1X33 or MATH1X03 or MATH1907)</td>
<td>N MATH2921 or MATH2065 or MATH2965 or (MATH2061 and MATH2022) or (MATH2061 and MATH2022) or (MATH2961 and MATH2922) or (MATH2961 and MATH2922) or (MATH2067)</td>
<td></td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MATH2921 Vector Calculus and Differential Eqs (Adv)</td>
<td>6</td>
<td>P ((MATH1921 or MATH1931 or MATH1901 or MATH1906) or (a mark of 65 or above in MATH1021 or MATH1001) and [MATH1902 or (a mark of 65 or above in MATH1002) and (MATH1923 or MATH1933 or MATH1903 or MATH1907) or (a mark of 65 or above in MATH1023 or MATH1003)]]</td>
<td>N MATH2021 or MATH2065 or MATH2965 or (MATH2061 and MATH2022) or (MATH2061 and MATH2922) or (MATH2961 and MATH2922) or (MATH2961 and MATH2922) or (MATH2067)</td>
<td></td>
<td>Semester 1</td>
<td></td>
</tr>
<tr>
<td>MECH2401 Human-Centred Engineering Design</td>
<td>6</td>
<td>A MECH1560 AND MECH1400</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME3660 Engineering Methods</td>
<td>6</td>
<td>A ENGG1602 AND AMME2301 AND AMME2500 AND MECH361</td>
<td>P MECH2400 and MECH3460</td>
<td>N MECH5416</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MECH4660 Mechatronic Systems</td>
<td>6</td>
<td>A MECH3661 OR AERO3660 OR MECH2660 OR MECH4601</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MECH5060 Advanced Computational Engineering</td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME5101 Energy and the Environment</td>
<td>6</td>
<td>A Students are expected to be familiar with the basic laws of thermodynamics, fluid mechanics and heat transfer</td>
<td>P MECH3260 OR MECH9260 or MECH8260 OR AERO3261 OR AERO9261</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5105 Risk Management Analysis</td>
<td>6</td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5202 Computational Fluid Dynamics</td>
<td>6</td>
<td>A Partial differential equations; Finite difference methods; Taylor series; Basic fluid mechanics including pressure, velocity, boundary layers, separated and recirculating flows. Basic computer programming skills. Note: Department permission required for enrolment.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5271 Computational Nanotechnology</td>
<td>6</td>
<td>A Understanding of basic principles of Newtonian mechanics, physics and chemistry, fluid mechanics and solid mechanics. Note: Department permission required for enrolment.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME5291 Advanced Fluid Dynamics</td>
<td>6</td>
<td>A Students are expected to be familiar with the basic laws of thermodynamics, fluid mechanics and heat transfer</td>
<td>P MECH3261 OR MECH9261 OR CIVL3612 OR CIVL9612 OR AERO3260 OR AERO9260</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5310 Engineering Tribology</td>
<td>6</td>
<td>A (AMME2302 OR AMME3932) AND (AMME2301 OR AMME3931) AND (MECH3261 OR MECH9261)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5510 Vibration and Acoustics</td>
<td>6</td>
<td>P (AMME2301 OR AMME3931) AND (AMME2200 OR AMME2261 OR AMME5921) AND (AMME2500 OR AMME5900)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME5530 Advanced Control and Optimisation</td>
<td>6</td>
<td>A Strong understanding of feedback control systems, specifically in the area of system modelling and control design in the frequency domain.</td>
<td>P AMME3500 OR AMME59501</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5912 Crash Analysis and Design</td>
<td>6</td>
<td>A Computer Aided Drafting. Basic FEA principles and Solid Mechanics. Note: Department permission required for enrolment.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MECH5255 Air Conditioning and Refrigeration</td>
<td>6</td>
<td>A Students are expected to be familiar with the basic laws of thermodynamics, fluid mechanics and heat transfer.</td>
<td>P MECH3260 OR MECH9260 or MECH8260</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH5265 Combustion</td>
<td>6</td>
<td>A Students are expected to be familiar with the basic laws of thermodynamics, fluid mechanics and heat transfer.</td>
<td>P (MECH3260 AND MECH3261) OR MECH9260 or MECH8260</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH5275 Renewable Energy</td>
<td>6</td>
<td>A The student will need a sound background in advanced level fluid mechanics, thermodynamics and heat transfer. In particular, students should be able to analyse fluid flow in turbomachinery; perform first and second law thermodynamic analysis of energy conversion systems, including chemically reacting systems; and perform advanced level calculations of conductive and convective and radiative heat transfer, including radiative spectral analysis.</td>
<td>P (MECH3260 AND MECH3261) OR (AERO3260 AND AERO3261) OR (MECH9260 AND MECH9261) OR (MECH9260 and MECH9262) OR (AERO9260 AND AERO9261) OR (AERO8260 and AERO8261). Students claiming to have prerequisite knowledge based on study at other institutions must contact the unit of study coordinator before enrolling in this unit and may be required to sit a pre-exam to demonstrate that they have the necessary knowledge and skills to undertake this advanced level unit. Note: Department permission required for enrolment.</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
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</tr>
<tr>
<td>MECH5310 Advanced Engineering Materials</td>
<td>6</td>
<td></td>
<td>P MECH3362 OR MECH9362 or MECH8362</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N MECH4310</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MECH5311 Microscopy and Microanalysis of Materials</td>
<td>6</td>
<td></td>
<td>A AMME1362 OR CIVL2110</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

A maximum of 6 credit points may be chosen from the Bachelor of Engineering General Elective Table.

Candidates enrolled in the Space major complete the following 18 credit points of units of study:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERO2705 Space Engineering 1</td>
<td>6</td>
<td></td>
<td>P (AERO1560 OR MECH1560 OR MTRX1701 OR ENGG1800) AND (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923). Entry to this unit requires that students are eligible for the Space Engineering Major. Note: Department permission required for enrolment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AERO3760 Space Engineering 2</td>
<td>6</td>
<td></td>
<td>P Students must have a 65% average in (AMME2500 AND AMME2261 AND AMME2301 AND AERO2705) OR (AMME2500 AND AMME2301 AND MTRX2700 AND AERO2705). Note: MUST have passed AERO2705</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AERO4701 Space Engineering 3</td>
<td>6</td>
<td></td>
<td>P [65% average in (AERO3460 AND AERO3360 AND AERO3560 AND AERO3760) OR (MECH3660 AND MECH3261 AND MECH3361 AND AERO3760) OR (MECH3660 AND AMME3500 AND MTRX3700 AND AERO3760)] AND [Must have passed AERO3760). Students must have achieved a 65% average mark in 3rd year for enrolment in this unit.</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

For a standard enrolment plan for Mechanical Engineering visit CUSP (https://cusp.sydney.edu.au).
# Mechatronic Engineering Stream Table

## Mechatronic Engineering Stream Core units

Complete all 108 credit points of the following units of study:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGG1801 Engineering Computing</td>
<td>6</td>
<td>N COSC1003</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ENGG1803 Engineering Mechanics</td>
<td>6</td>
<td>N CIVL1101 or CIVL1302</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME1802 Engineering Mechanics</td>
<td>6</td>
<td>N CIVL1802 or ENGG1802</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX1701 Introduction to Mechatronic Engineering</td>
<td>6</td>
<td>N MECH1560 OR ENGG1800 OR AERO1560 OR CIVL1900 OR CHNG1108 OR AMME1960 x OR BMET1960 OR ENGG1960</td>
<td>MTRX1701 and MTRX1705</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX1702 Mechatronics 1</td>
<td>6</td>
<td>A MTRX1701</td>
<td>N ELEC1101 or ELEC2602 or COSC1902 or COSC1002</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX1705 Introduction to Mechatronic Design</td>
<td>6</td>
<td>A H5C Mathematics Extension 1</td>
<td>N CIVL2110 or AMME2302</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME2362 Materials 1</td>
<td>6</td>
<td>P ELECE1010 (AMME1802 OR ENGG1802) AND (MATH1001 OR MATH1021 OR MATH1101 OR MATH11921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1102 OR MATH1102 OR MATH11922 OR MATH11923 OR MATH1903 OR MATH1903 OR MATH1907 OR MATH1933)</td>
<td>N CIVL2201</td>
<td></td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>AMME2301 Mechanics of Solids</td>
<td>6</td>
<td>P ELECE1010 (AMME1802 OR ENGG1802) AND (MATH1001 OR MATH1101 OR MATH1102 OR MATH11921 OR MATH11922 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1102 OR MATH1102 OR MATH11922 OR MATH11923 OR MATH11923 OR MATH1903 OR MATH1907 OR MATH1933)</td>
<td>N CIVL2201</td>
<td></td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>AMME2500 Engineering Dynamics</td>
<td>6</td>
<td>A Familiarity with the MATLAB programming environment</td>
<td>P (MATH1001 OR MATH1101 OR MATH1102 OR MATH11921 OR MATH11922 OR MATH11923 OR MATH11924) AND (MATH1102 OR MATH11922 OR MATH11923 OR MATH11924 OR MATH11925 OR MATH11933)</td>
<td>N MDSC1840 OR AMME1802 OR ENGG1902</td>
<td></td>
<td>Session 1</td>
</tr>
<tr>
<td>ELEC1103 Fundamentals of Elec and Electronic Eng</td>
<td>6</td>
<td>A Basic knowledge of differentiation and integration, and PHYS1003</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ELEC2104 Electronic Devices and Circuits</td>
<td>6</td>
<td>A ELEC1103. Ohm's Law and Kirchoff's Laws; action of Current and Voltage sources; network analysis and the superposition theorem; Thevenin and Norton equivalent circuits; inductors and capacitors, transient response of RL, RC and RLC circuits; the ability to use power supplies, oscilloscopes, function generators, meters, etc.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH2400 Mechanical Design 1</td>
<td>6</td>
<td>A ENGG1801 and ENGG1802</td>
<td>AMME1802 OR ENGG1802; HSC Maths and Physics</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX2700 Mechatronics 2</td>
<td>6</td>
<td>A MTRX1701 and MTRX1705. Students are assumed to know how to program using the &quot;C&quot; programming language. Additionally, students should understand the basic concepts behind simple digital logic circuits.</td>
<td>P MTRX1702 AND MTRX1705</td>
<td>N ELEC2601 or ELEC3807</td>
<td></td>
<td>Session 1</td>
</tr>
<tr>
<td>AMME3500 System Dynamics and Control</td>
<td>6</td>
<td>P AMME2500</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ELEC3204 Power Electronics and Applications</td>
<td>6</td>
<td>A 1. Differential equations, linear algebra, complex variables, analysis of linear circuits. 2. Fourier theory applied to periodic and non-periodic signals. 3. Software such as MATLAB to perform signal analysis and filter design. 4. Familiarity with the use of basic laboratory equipment such as oscilloscope, function generator, power supply, etc. 5. Basic electric circuit theory and analysis</td>
<td>P ELEC2104</td>
<td></td>
<td></td>
<td>Session 1</td>
</tr>
<tr>
<td>MECH3460 Mechanical Design 2</td>
<td>6</td>
<td>A Properties of engineering materials including fatigue failure theories. Statics and dynamics properties of machines.</td>
<td>P MECH2400 and AMME2301</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH3660 Manufacturing Engineering</td>
<td>6</td>
<td>P MECH2400 OR ENGG1960 OR AMME1960 OR BMET1960 OR MECH1560 OR ENGG1800</td>
<td></td>
<td></td>
<td></td>
<td>Session 1</td>
</tr>
<tr>
<td>MTRX3700 Mechatronics 3</td>
<td>6</td>
<td>A Completion of a first course in microprocessor systems, including assembly and C language programming, interfacing, introductory digital and analogue electronics.</td>
<td>P MTRX2700</td>
<td>N MECH4710</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX3760 Mechatronic Systems Design</td>
<td>6</td>
<td>P MTRX2700</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
</tbody>
</table>

Candidates for the Space Major are exempt from AMME1362 and MECH3460.

Candidates in the combined BE Hons/BA are exempt from MTRX1701 and ELEC3204.

## Mechatronic Engineering Stream Specialist units

Complete 48 credit points of the units listed below:

Complete a minimum of 24 credit points from the following units of study:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMME4710 Computer Vision and Image Processing</td>
<td>6</td>
<td>A The unit assumes that students have strong skills in MATLAB.</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
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</tr>
<tr>
<td>AMME5520 Advanced Control and Optimisation</td>
<td>6</td>
<td>Strong understanding of feedback control systems, specifically in the area of system modelling and control design in the frequency domain.</td>
<td>MATH3500 OR AMME3951 or AMME8501</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME5790 Introduction to Biomechatronics</td>
<td>6</td>
<td>Knowledge in mechanical and electronic engineering; adequate maths and applied maths skills; background knowledge of physics, chemistry and biology; Some programming capability; MATLAB, C, C++, software tools used by engineers including CAD and EDA packages.</td>
<td>(MECH3921 OR BMET3921) OR MTRX3700 OR (AMME3921 OR BMET5921 OR BMET9921)</td>
<td>AMME4790</td>
<td>AMME5790 is the last in a series of practical Biomechatronic and Electrical courses taken over three years. It takes these engineering concepts, along with the associated mathematical, electronic and mechanical theory and applies this knowledge to a series of practical, albeit specialised biomechatronic applications that will be encountered by Biomechatronic Engineers who enter this broad field on graduation.</td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH5720 Sensors and Signals</td>
<td>6</td>
<td>Strong MATLAB skills</td>
<td>MTRX3700</td>
<td>MECH4720</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX5700 Experimental Robotics</td>
<td>6</td>
<td>Knowledge of statics and dynamics, rotation matrices, programming and some electronic and mechanical design experience is assumed.</td>
<td>AMME3500 OR AMME8501 AND AMME8501</td>
<td>MTRX3700</td>
<td>Select a maximum of 6 credit points from the Bachelor of Engineering General Elective Table. And the remainder from:</td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME2000 Engineering Analysis</td>
<td>6</td>
<td>P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1102 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) AND (ENGG2001 OR INFO1010 OR INFO1903 OR INFO1110 OR INFO1910 OR DATA1003 OR DATA1902)</td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>AMME2200 Introductory Thermofluids</td>
<td>6</td>
<td>A (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1102 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933). Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra.</td>
<td>N AMME2261 OR AMME2262</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AMME3060 Engineering Methods</td>
<td>6</td>
<td>P AMME2000 OR MATH2067 OR (MATH2061 AND MATH2065) OR MATH2021</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ELEC3404 Electronic Circuit Design</td>
<td>6</td>
<td>A background in basic electronics and circuit theory is assumed.</td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MATH2021 Vector Calculus and Differential Equations</td>
<td>6</td>
<td>P (MATH1X21 or MATH1X31 or MATH1X01 or MATH1906) and (MATH1XX2) and (MATH1X23 or MATH1X33 or MATH1X03 or MATH1907)</td>
<td>N MATH2921 or MATH2065 or MATH2965 or (MATH2061 AND MATH2022) or (MATH2961 AND MATH2922) or (MATH2921 AND MATH2922) or (MATH2961 and MATH2922) or (MATH2967)</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MATH2821 Vector Calculus and Differential Eqs (Adv)</td>
<td>6</td>
<td>P [[MATH1921 or MATH1931 or MATH1901 or MATH1906] or (a mark of 65 or above in MATH1021 or MATH1001)] and (MATH1902 or (a mark of 65 or above in MATH1002)] and (MATH1923 or MATH1933 or MATH1903 or MATH1907) or (a mark of 65 or above in MATH1023 or MATH1003)] and (MATH2961 or MATH2965 or MATH2967 or (MATH2061 AND MATH2022) or (MATH2961 AND MATH2922) or (MATH2921 AND MATH2967)</td>
<td>N MATH2921 or MATH2065 or MATH2965 or (MATH2061 AND MATH2022) or (MATH2961 and MATH2922) or (MATH2921 AND MATH2967)</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
</tbody>
</table>

Candidates enrolled in the Space major complete the following 18 credit points of units of study:

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>AERO2705 Space Engineering 1</td>
<td>6</td>
<td>Eastern Year Maths and basic MATLAB programming skills.</td>
<td>P (AERO1560 OR MECH1560 OR MTRX1701 OR ENGG1500) AND (MATH1001 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923). Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra.</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>AERO3760 Space Engineering 2</td>
<td>6</td>
<td>Students must have a 65% average in AMME2500 AND AMME2261 AND AMME2301 AND AERO2705 OR (AMME2500 AND AMME2301 AND MTRX3700 AND AERO2705). Note: aerial permission required for enrolment</td>
<td></td>
<td></td>
<td>Semester 2</td>
<td></td>
</tr>
<tr>
<td>AERO4701 Space Engineering 3</td>
<td>6</td>
<td>P 65% average in (AERO3480 AND AERO3360 AND AERO3560 AND AERO3700) OR (MECH3660 AND MECH3361 AND MECH3361 AND AERO3760) OR (MECH3660 AND MECH3360 AND AERO3760) AND (MECH3650 AND MTRX3700 AND AERO3760)</td>
<td></td>
<td></td>
<td>Semester 1</td>
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</tbody>
</table>

For a standard enrolment plan for Mechatronic Engineering visit CUSP (https://cusp.sydney.edu.au)
Biomedical Engineering Stream Table

<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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<tbody>
<tr>
<td>Biomedical Engineering Stream Core units</td>
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<tr>
<td>Complete a total of 106 credit points of units of</td>
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<tr>
<td>study from the following unit groups:</td>
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<tr>
<td>Complete 6 credit points of:</td>
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<tr>
<td>ENGG1801 Engineering Computing</td>
<td>6</td>
<td>N COSC1003</td>
<td></td>
<td></td>
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<td>Semester 1 Summer Main</td>
</tr>
<tr>
<td>INFO1110 Introduction to Programming</td>
<td>6</td>
<td>N INFO1910 or INFO1103 or INFO1903 or INFO1105 or INFO1905</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>INFO1910 Introduction to Programming (Advanced)</td>
<td>8</td>
<td>A ATAR sufficient to enter Dylabel program, or passing an online programming knowledge test, which will be administered during the O-week prior to the commencement of the semester.</td>
<td>N INFO1110 or INFO1103 or INFO1903 or INFO1105 or INFO1905</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1 Semester 2</td>
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<tr>
<td>Complete 6 credit points of:</td>
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<tr>
<td>ENGG1802 Engineering Mechanics</td>
<td>6</td>
<td>N CIVL 1802</td>
<td></td>
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<td>Semester 2 Summer Main</td>
</tr>
<tr>
<td>AMME1802 Engineering Mechanics</td>
<td>6</td>
<td>N CIVL 1802 or ENGG1802</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2 INTENSIVE</td>
</tr>
<tr>
<td>PHYS1001 Physics 1 (Regular)</td>
<td>6</td>
<td>A HSC Physics or PHYS1003 or PHYS1004 or PHYS1902 or equivalent. Students who have not completed HSC Physics (or equivalent) are strongly advised to take the Physics Bridging Course (offered in February). Students are also encouraged to take (MATH1X21 or MATH1931 or MATH1X01 or MATH1906) and MATH1X02 concurrently.</td>
<td>N PHYS1902 or PHYS1901 or EDUH1017 or PHYS1903</td>
<td></td>
<td>Intensive Semester 1 January</td>
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<tr>
<td>Complete 6 credit points of:</td>
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<tr>
<td>AMME2203 Introductory Thermofluids</td>
<td>6</td>
<td>A (MATH1001 OR MATH1021 OR MATH1901 OR MATH1902 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1907 OR MATH1933). Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra.</td>
<td>N AMME2261 or AMME2262</td>
<td></td>
<td>Semester 2 Semester 2</td>
<td></td>
</tr>
<tr>
<td>CHNG2803 Heat and Mass Transfer</td>
<td>6</td>
<td>A It is assumed that students will be concurrently enrolled in or have already completed: CHNG2801 or equivalent, and (CHNG2802 or MATH2XXX)</td>
<td>P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923) AND (MATH1005 OR MATH1905 OR BUSS1120) AND ENGG1801 AND CHNG1103</td>
<td></td>
<td>Semester 1 Semester 2</td>
<td></td>
</tr>
<tr>
<td>ELEC2302 Signals and Systems</td>
<td>6</td>
<td>A (MATH1001 OR MATH1021) AND MATH1002 AND (MATH1003 OR MATH1023). Basic knowledge of differentiation &amp; integration, differential equations, and linear algebra.</td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BMET2400 Mechanical Design 1</td>
<td>6</td>
<td>A ENGG1801 and ELEC2302</td>
<td>AMME1802 or ENGG1802</td>
<td>HSC Maths and Physics</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>Complete 6 credit points of:</td>
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</tr>
<tr>
<td>AMME5790 Introduction to Biomechatronics</td>
<td>6</td>
<td>A Knowledge in mechanical and electronic engineering; adequate maths and applied maths skills; background knowledge of physics, chemistry and biology; Some programming capability; MATLAB, C, C++, software tools used by engineers including CAD and EDA packages.</td>
<td>P (MECH3921 OR BMET3921) OR MTRXG700 OR (AMME5921 OR BMET5921 OR BMET9921)</td>
<td>N AMME4790</td>
<td>AMME5790 is the last in a series of practical Biomechatronic and Electrical Courses taken over three years. It takes these engineering concepts, along with the associated mathematics, electronic and mechanical theory and applies this knowledge to a series of practical, albeit specialised biomechatronic applications that will be encountered by Biomechatronic Engineers who enter this broad field on graduation.</td>
<td>Semester 2</td>
</tr>
<tr>
<td>BMET5995 Advanced Bionics</td>
<td>6</td>
<td>P AMME5921 or BMET5921 or BMET9621 OR MECH3921 OR BMET3921</td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>ELEC3802 Fundamentals of Biomedical Engineering</td>
<td>6</td>
<td>A ELEC2304 or ELEC2104</td>
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<td>Semester 1</td>
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<tr>
<td>Complete all 72 credit points of:</td>
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<tr>
<td>CHEM1111 Chemistry 1A</td>
<td>6</td>
<td>A Students who have not completed HSC Chemistry (or equivalent) and HSC Mathematics (or equivalent) are strongly advised to take the Chemistry and Mathematics Bridging Courses (offered in February).</td>
<td>N CHEM1101 or CHEM1910 or CHEM1903 or CHEM1109 or CHEM1011 or CHEM1911 or CHEM1991</td>
<td>Students who have not completed secondary school chemistry are strongly advised to instead complete Fundamentals of Chemistry 1A in the first semester of the calendar year (unless you require 12 credit points of Chemistry and are commencing in semester 2). You should also take the Chemistry Bridging Course in advance (offered in February, and online year-round <a href="http://sydney.edu.au/science/chemistry/studying-chemistry/bridging-course.shtml">http://sydney.edu.au/science/chemistry/studying-chemistry/bridging-course.shtml</a>).</td>
<td>Semester 1 Semester 2 Semester 2 Summer Main</td>
<td></td>
</tr>
<tr>
<td>ELEC1103 Fundamentals of Elec and Electronic Eng</td>
<td>6</td>
<td>A Basic knowledge of differentiation and integration, and PHYS1003</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
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<tr>
<td>AMME1362 Materials 1</td>
<td>6</td>
<td>A</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>N CIVL2110 or AMME2302</td>
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<tr>
<td>BMET1960 Biomedical Engineering 1A</td>
<td>6</td>
<td>A</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>N ENGG1960 OR ENGG1800 OR CIVL1900 OR CHNG1108 OR MECH1560 OR AERO1560 OR MTRX1701 OR AMME1960</td>
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<tr>
<td>BMET1961 Biomedical Engineering 1B</td>
<td>6</td>
<td>N</td>
<td>AMME1961</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>HSC Biology and HSC Chemistry. Summer bridging courses are available for students who did not complete HSC Biology or Chemistry.</td>
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<tr>
<td>BMET2901 Anatomy and Physiology for Engineers</td>
<td>6</td>
<td>P</td>
<td>AMME1960 OR BMET1960 OR ENGG1800 OR ENGG1960 OR AMME1961 OR (Biol1xxx) AND [Bip 1000-level Chemistry]</td>
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<td>Semester 2</td>
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<tr>
<td>N MECH2901</td>
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<tr>
<td>BMET2960 Biomedical Engineering 2</td>
<td>6</td>
<td>A</td>
<td>AMME1960 OR BMET1960 OR (AMME1961 OR BMET1961)</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1923 OR MATH1924)</td>
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<tr>
<td>N AMME2960</td>
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<tr>
<td>ELEC2404 Electronic Devices and Circuits</td>
<td>6</td>
<td>A</td>
<td>ELEC1103. Ohm’s Law and Kirchhoff’s Laws; action of Current and Voltage sources; network analysis and the superposition theorem; Thevenin and Norton equivalent circuits; inductors and capacitors, transient response of RL, RC and RLC circuits; the ability to use power supplies, oscilloscopes, function generators, meters, etc.</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>BMET3660 Biomanufacturing</td>
<td>6</td>
<td>P</td>
<td>MECH2400 OR BMET2400 OR ENGG1960 OR AMME1960 OR ENGG1800 OR MECH1960</td>
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<td>Semester 1</td>
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<tr>
<td>N MECH2660</td>
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<tr>
<td>BMET3921 Biomedical Design and Technology</td>
<td>6</td>
<td>A</td>
<td>A basic understanding of human physiology and anatomy and an understanding of the engineering design process.</td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>P (AMME2302 OR AMME1962) AND (MECH2901 OR BMET2901) AND (MECH2400 OR BMET2400 OR ENGG1960 OR AMME1960 OR BMET1960 OR ENGG1800)</td>
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</tr>
<tr>
<td>N AMME3921 OR BMET3921 OR BMET3924 OR MECH3921</td>
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<tr>
<td>BMET4961 Biomechanics and Biomaterials</td>
<td>6</td>
<td>P</td>
<td>(ENGG1960 OR AMME1960) AND (MECH1960 OR BMET1960 OR AMME1962 OR AMME2962) AND (AMME3920 OR MECH3920 OR BMET3920) AND (AMME2960 OR AMME3920 OR AMME2962) AND (MECH2300 OR AMME3920 OR AMME2962) AND (MECH2901 OR BMET2901) AND (MECH3921 OR BMET3921)</td>
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<tr>
<td>N MECH4961</td>
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<tr>
<td>BMET4971 Tissue Engineering</td>
<td>6</td>
<td>P</td>
<td>MECH2901 OR BMET2901 AND (MECH3921 OR BMET3921)</td>
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<td>Semester 1</td>
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<tr>
<td>N AMME4971</td>
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</tbody>
</table>

Also complete 12 credit points of units of study from the Biomedical Engineering Stream Specialist table below.

### Biomedical Engineering Specialist units

Select a minimum of 12 credit points from the following units of study:

| AMME2262 Thermal Engineering 1               | 6             | A: Expected to be familiar with basic, first year, calculus, differential calculus and linear algebra. |                  |                |                | Semester 2       |
| AMME4710 Computer Vision and Image Processing | 6             | A: The unit assumes that students have strong skills in MATLAB. |                  |                |                | Semester 2       |
| AMME4990 Biomedical Product Development      | 6             | A: 1000-level chemistry, 2000-level biology, and specific knowledge of cell biology at least at the 1000-level, and preferably at the 2000-level. |                  |                |                | Semester 1       |
| AMME5931 Orthopaedic and Surgical Engineering | 6             | A: Basic concepts in engineering mechanics - statics, dynamics, and solid mechanics. Basic concepts in materials science, specifically with regard to types of materials and the relations between properties and microstructure. A basic understanding of human biology and anatomy. |                  |                |                | Semester 2       |
| BMET5951 Fundamentals of Neuromodulation      | 6             | A: ELEC1103 or equivalent. (MECH2901 OR BMET2901 OR AMME9901 OR BMET9901), and MECH3921 or BMET3921 or AMME9901 OR BMET9901 OR BMET9921 |                  |                |                | Semester 1       |
| BMET5958 Nanotechnology in Biomedical Engineering | 6             | P: MECH3921 OR BMET3921 OR AMME5921 OR BMET5921 OR BMET9921 |                  |                |                | Semester 2       |
| BMET5962 Introduction to Mechanobiology       | 6             | A: 6 credit points of 1000-level biology, 6 credit points of 1000-level chemistry and 6 credit points of 2000-level physiology or equivalent |                  |                |                | Semester 2       |
| BMET5992 Regulatory Affairs in the Medical Industry | 6             | P: 6 credit points of 1000-level Chemistry, and 6 credit points of Biology units |                  |                |                | Semester 2       |
| BMET5995 Advanced Bionics                     | 6             | P: AMME9921 OR BMET9921 OR MECH9921 OR AMME9951 |                  |                |                | Semester 1       |
| CHNG5601 Membrane Science                    | 6             | A: It is assumed that students have a general knowledge of: (MATH1001 OR MATH1021) AND (MATH1003 OR MATH1023) AND (CHNG2802 OR MATH2XXX) |                  |                |                | Semester 1       |

This course is for Master degree students and also is offered as an elective course for fourth year students. Some lectures may be given by a guest lecturer.
<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
<th>C: Corequisites</th>
<th>N: Prohibition</th>
<th>Session</th>
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</thead>
<tbody>
<tr>
<td>CHNG5604 Advanced Membrane Engineering</td>
<td>6</td>
<td>A CHNG5601</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>CHNG5605 Bio-Products: Laboratory to Marketplace</td>
<td>6</td>
<td>This course is for Master degree students and also is offered as an elective course for fourth year students.</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>COMP3498 Visual Analytics</td>
<td>6</td>
<td>A It is assumed that students will have basic knowledge of data structures, algorithms and programming skills.</td>
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<td>Semester 2</td>
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<tr>
<td>COMP3424 Information Technology in Biomedicine</td>
<td>6</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ELEC3005 Digital Signal Processing</td>
<td>6</td>
<td>A Familiarity with basic Algebra, Differential and Integral Calculus, continuous linear time-invariant systems and their time and frequency domain representations, Fourier transform, sampling of continuous time signals. P ELEC2302</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ELEC5514 Networked Embedded Systems</td>
<td>6</td>
<td>A ELEC3305 AND ELEC3506 AND ELEC3607 AND ELEC5508 P ELEC5509</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ELEC5701 Technology Venture Creation</td>
<td>6</td>
<td>N ENGG5102</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>HTIN5002 Quality Frameworks for Health Innovation</td>
<td>6</td>
<td>P at least 36cp of 3000-level or higher units and a WAM of 70+</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>MECH5720 Sensors and Signals</td>
<td>6</td>
<td>A Strong MATLAB skills P MTRX3700 N MECH4720</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>MTRX5700 Experimental Robotics</td>
<td>6</td>
<td>A Knowledge of statics and dynamics, rotation matrices, programming and some electronic and mechanical design experience is assumed. P (AMME3500 OR AMME3501) AND MTRX3700</td>
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<td>Semester 1</td>
</tr>
</tbody>
</table>

### Biomedical Engineering Stream Elective units

Select the remaining credit points from the following units of study. Biomedical Specialist Electives may also be counted as Stream Electives.

<p>| AMME2200 Introductory Thermofluids | 6 | A (MATH1001 OR MATH1021 OR MATH1901 OR MATH1902 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933). Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra. N AMME2261 OR AMME2262 | | | | Semester 2 |
| AMME2261 Fluid Mechanics 1 | 6 | A Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra. P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) | | | | Semester 1 |
| AMME2262 Thermal Engineering 1 | 6 | A Students are expected to be familiar with basic, first year, integral calculus, differential calculus and linear algebra. P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) N AMME2200 | | | | Semester 2 |
| AMME2301 Mechanics of Solids | 6 | P ENGG1802 AND (AMME1802 OR ENGG1802 AND MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1023 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) N CIVL2201 | | | | Semester 2 |
| AMME2500 Engineering Dynamics | 6 | A Familiarity with the MATLAB programming environment P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921 OR MATH1906 OR MATH1931) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) AND ENGG1802 (AMME1802 OR ENGG1802) | | | | Semester 1 |
| AMME3550 System Dynamics and Control | 6 | P AMME2500 | | | | Semester 1 |
| CHNG1103 Conservation of Mass and Energy | 6 | A HSC Mathematics Extension 1 | | | | Semester 2 |
| CHNG2800 Fluid Mechanics | 6 | A It is assumed that students will be concurrently enrolled in or have already completed CHNG2801 OR MATH2XXX | | | | Semester 1 |
| CHNG2803 Heat and Mass Transfer | 6 | A It is assumed that students will be concurrently enrolled in or have already completed: CHNG2801 or equivalent, and (CHNG2802 or MATH2XXX) P (MATH1001 OR MATH1021 OR MATH1901 OR MATH1921) AND (MATH1002 OR MATH1902) AND (MATH1003 OR MATH1903 OR MATH1923 OR MATH1907 OR MATH1933) AND (MATH1005 OR MATH1905 OR BUSS1020) AND ENGG1801 AND CHNG1103 | | | | Semester 1 |
| CHNG2804 Chemical Engineering Thermodynamics | 6 | A Calculus, linear algebra, numerical methods, computational tools (Matlab, Excel), basic mass and energy balances, heat transfer, mass transfer, momentum (from fluid mechanics), reaction balances. P CHNG1103 AND (CHEM1101 OR CHEM1111 OR CHEM1901 OR CHEM1911) | | | | Semester 2 |
| CHNG2805 Engineering for a Sustainable Society | 6 | A Mass and energy balances, physical chemistry, physics. P CHNG1103 | | | | Semester 2 |
| CHNG2806 Separation Processes | 6 | A It is assumed that students will be concurrently enrolled in or have already completed CHNG2804 AND CHNG2803 | | | | Semester 2 |
| CHNG3801 Process Plant Design | 6 | A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed. P CHNG2801 and CHNG2802 and CHNG2803 and CHNG2804 | | | | Semester 2 |
| CHNG3802 Process Dynamics and Control | 6 | A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed. P CHNG2802 or AMME2960 OR BMET2960 | | | | Semester 1 |</p>
<table>
<thead>
<tr>
<th>Unit of study</th>
<th>Credit points</th>
<th>A: Assumed knowledge</th>
<th>P: Prerequisites</th>
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<th>N: Prohibition</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHNG3803 Reaction Engineering</td>
<td>6</td>
<td>A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed.</td>
<td>P CHNG2801 and (CHNG2802 or AMME2960 OR BMET2960) and CHNG2803</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>CHNG3804 Biochemical Engineering</td>
<td>6</td>
<td>A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed.</td>
<td>P CHNG2801 and CHNG2802 and CHNG2803 and CHNG2804 and CHNG2805 and CHNG2806</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>CHNG3805 Particle Processing</td>
<td>6</td>
<td>A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed.</td>
<td>P CHNG2801 and CHNG2802 and CHNG2803 and CHNG2804 and CHNG2805 and CHNG2806</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>CHNG3806 Risk Management for Chemical Engineering</td>
<td>6</td>
<td>A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed.</td>
<td>P CHNG2801 and CHNG2802 and CHNG2803 and CHNG2804 and CHNG2805 and CHNG2806</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>CHNG3807 Products and Value Chains</td>
<td>6</td>
<td>A Enrolment in this unit of study assumes that all core 2000 level chemical engineering units have been successfully completed.</td>
<td>P CHNG2801; CHNG2802; CHNG2803; CHNG2804; CHNG2805; CHNG2806</td>
<td>C CHNG3805; CHNG3806</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 2</td>
</tr>
<tr>
<td>CHNG3808 Engineering Macromolecules and Nanocomposites</td>
<td>6</td>
<td>A CHNG2801 and 12 cp of CHEM1XXX</td>
<td>C CHNG3802</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>CHNG3809 Laboratory and Industrial Practice</td>
<td>6</td>
<td>C CHNG3802 AND CHNG3803</td>
<td></td>
<td>Note: Department permission required for enrolment</td>
<td></td>
<td>Semester 1 Semester 2</td>
</tr>
<tr>
<td>CHNG4802 Chemical Engineering Design A</td>
<td>6</td>
<td>A CHNG3801 AND CHNG3802 AND CHNG3803 AND CHNG3805 AND CHNG3806 AND CHNG3807. Enrolment in this unit of study assumes that all core 3000 level chemical engineering unit of study have been successfully completed.</td>
<td>P CHNG3805 AND CHNG3806 AND CHNG3807</td>
<td>C CHNG3802 AND CHNG3803</td>
<td>N CHNG4203</td>
<td>Semester 1</td>
</tr>
<tr>
<td>CHNG4808 Chemical Engineering Design B</td>
<td>6</td>
<td>A Enrolment in this unit of study assumes that all core 3000 level chemical engineering units of study have been successfully completed, as well as the related first semester UoS CHNG4202 or CHNG4203.</td>
<td>P CHNG4802 or CHNG4203</td>
<td>Department permission required for enrolment prior to CHNG4802 in the case of Mid-Year Entry students.</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>CIVL3310 Humanitarian Engineering</td>
<td>6</td>
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<td>Semester 1</td>
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<tr>
<td>CIVL3320 Engineering for Sustainable Development</td>
<td>6</td>
<td>P CIVL3310 OR CIVL9310</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>CIVL3330 Global Engineering Field Work</td>
<td>6</td>
<td>Note: Department permission required for enrolment</td>
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<td>Intensive Intensive July</td>
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<tr>
<td>COMP2017 Systems Programming</td>
<td>6</td>
<td>P INFO1113 OR INFO1105 OR INFO1905 OR INFO1103</td>
<td>C COMP2123 OR COMP2823 OR INFO1110 OR INFO1905</td>
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<td>Semester 1</td>
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<tr>
<td>COMP2022 Programming Languages, Logic and Models</td>
<td>6</td>
<td>A MATH1004 OR MATH1004 OR MATH1004 OR MATH2069 OR MATH2969</td>
<td>P INFO1103 OR INFO1903 OR INFO1113</td>
<td>N COMP2922</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>COMP2123 Data Structures and Algorithms</td>
<td>6</td>
<td>P INFO1110 OR INFO1910 OR INFO1113 OR DATA1002 OR DATA1902 OR INFO1103 OR INFO1903</td>
<td>N INFO1105 OR INFO1905 OR COMP2823</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>COMP2823 Data Structures and Algorithms (Adv)</td>
<td>6</td>
<td>P INFO1110 OR INFO1910 OR INFO1113 OR DATA1002 OR DATA1902 OR INFO1103 OR INFO1903</td>
<td>N INFO1105 OR INFO1905 OR COMP2123</td>
<td>Note: Department permission required for enrolment</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>COMP2922 Programming Languages, Logic and Models (Adv)</td>
<td>6</td>
<td>A MATH1004 OR MATH1004 OR MATH1004 OR MATH2069 OR MATH2969</td>
<td>P Distinction level result in INFO1103 OR INFO1903 OR INFO1113</td>
<td>N COMP2022</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 2</td>
</tr>
<tr>
<td>COMP3027 Algorithm Design</td>
<td>6</td>
<td>A MATH1004 OR MATH1004 OR MATH1004</td>
<td>P COMP2123 OR COMP2823 OR INFO1105 OR INFO1905</td>
<td>N COMP2007 OR COMP2907 OR COMP3927</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>COMP3221 Distributed Systems</td>
<td>6</td>
<td>P (INFO1105 OR INFO1905) OR ((INFO1103 OR INFO1113) AND (COMP2123 OR COMP2823))</td>
<td>N COMP2123</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>COMP3306 Introduction to Artificial Intelligence</td>
<td>6</td>
<td>A Algorithms. Programming skills (e.g. Java, Python, C, C++, Matlab)</td>
<td></td>
<td>N COMP3608</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>COMP3419 Graphics and Multimedia</td>
<td>6</td>
<td>A Programming skills</td>
<td>P COMP2123 OR COMP2823 OR INFO1105 OR INFO1905</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>COMP3520 Operating Systems Internals</td>
<td>6</td>
<td>P (COMP2017 OR COMP2129) AND (COMP2123 OR COMP2823 OR INFO1105 OR INFO1905)</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>COMP3685 Introduction to Artificial Intelligence (Adv)</td>
<td>6</td>
<td>A Algorithms. Programming skills (e.g. Java, Python, C, C++, Matlab)</td>
<td>P Distinction-level results in at least one 2000 level COMP or MATH or SOFT unit</td>
<td>N COMP3308</td>
<td>COMP3308 and COMP3608 share the same lectures, but have different tutorials and assessment (the same type but more challenging).</td>
<td>Semester 2</td>
</tr>
<tr>
<td>COMP3888 Computer Science Project</td>
<td>6</td>
<td>P (COMP2123 OR COMP2823) AND COMP2017 AND (COMP2022 OR COMP2922)</td>
<td>N INFO3600 OR COMP3600 OR COMP3615 OR COMP3888</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
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<tr>
<td>COMP3988 Computer Science Project (Advanced)</td>
<td>6</td>
<td>P: [COMP2123 OR COMP2823] and COMP2017 AND (COMP2022 OR COMP2922) with Distinction level results in at least one of these units.</td>
<td>N: INFO3600 OR COMP3615 OR COMP3600 OR COMP3888</td>
<td>Note: Department permission required for enrolment</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>COMP3927 Algorithm Design (Adv)</td>
<td>6</td>
<td>A: MATH1004 OR MATH1904 OR MATH1004</td>
<td>P: COMP2123 OR COMP2823 OR INFO1105 OR INFO1905</td>
<td>N: COMP2007 OR COMP2907 OR COMP3027</td>
<td>Note: Department permission required for enrolment</td>
<td>Semester 1</td>
</tr>
<tr>
<td>DATA2001 Data Science: Big Data and Data Diversity</td>
<td>6</td>
<td>P: DATA1002 OR DATA1902 OR INFO1110 OR INFO1910 OR INFO1903 OR INFO1013</td>
<td>N: DATA2901</td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DATA2901 Big Data and Data Diversity (Advanced)</td>
<td>6</td>
<td>P: DATA1002 OR DATA1902 OR INFO1110 OR INFO1903 OR INFO1013. Students need Distinction or better in one of the prerequisite units.</td>
<td>N: DATA2001</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>DATA2002 Data Analytics: Learning from Data</td>
<td>6</td>
<td>A: Basic Linear Algebra and some coding</td>
<td>P: [DATA1001 or ENVI1001 or ENVI1002] or [MATH1005 and MATH1115] or [MATH1005 and STAT2011] or [MATH1005 and MATH1XXX (except MATH1XXX)] or [BUSB1020 or ECMT1010 or STAT1021]</td>
<td>N: STAT2012 or STAT2912 or DATA2902</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DATA2902 Data Analytics: Learning from Data (Adv)</td>
<td>6</td>
<td>A: Basic linear algebra and some coding for example MATH1014 or MATH1102 or MATH1102 and DATA1001 or DATA1901</td>
<td>P: A mark of 65 or above in any of the following (DATA1001 or DATA1901 or ENVI1001 or ENVI1002) or (MATH1005 and MATH1115) or (MATH1005 and STAT2011) or (MATH1005 and MATH1XXX [except MATH1XXX]) or (GUBUS1020 or ECMT1020 or STAT1021)</td>
<td>N: STAT2012 or STAT2912 or DATA2902</td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>DATA2004 Data Science Platforms</td>
<td>6</td>
<td>A: This unit of study assumes that students have previous knowledge of database structures and of SQL. The prerequisite material is covered in DATA2001 or ISYS2120. Familiarity with a programming language (e.g. Java or C) is also expected.</td>
<td>P: DATA2001 OR DATA2901 OR ISYS2120 OR INFO2920 OR INFO2820</td>
<td>N: INFO3004 OR INFO3404</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>DATA3888 Data Science Capstone</td>
<td>6</td>
<td>P: DATA2001 or DATA2901 or DATA2002 or DATA2902 or STAT2912 or STAT2012</td>
<td></td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ELEC2103 Simulation and Numerical Solutions in Eng</td>
<td>6</td>
<td>A: ELEC1103. Understanding of the fundamental concepts and building blocks of electrical and electronics circuits and aspects of professional project management, teamwork, and ethics.</td>
<td>N: COSC1001 or COSC1901</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ELEC2302 Signals and Systems</td>
<td>6</td>
<td>A: (MATH1001 OR MATH1021) AND MATH1002 AND (MATH1003 OR MATH1023). Basic knowledge of differentiation &amp; integration, differential equations, and linear algebra.</td>
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<td>Semester 2</td>
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<tr>
<td>ELEC2602 Digital Logic</td>
<td>6</td>
<td>A: ELEC1601. This unit of study assumes some knowledge of digital data representation and basic computer organisation.</td>
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<td>Semester 1</td>
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<tr>
<td>ELEC3104 Engineering Electromagnetics</td>
<td>6</td>
<td>A: Differential calculus, integral calculus, vector integral calculus; electrical circuit theory and analysis using lumped elements; fundamental electromagnetic laws and their use in the calculation of static fields.</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ELEC3203 Electricity Networks</td>
<td>6</td>
<td>A: This unit of study assumes a competence in 1000 level MATH (in particular, the ability to work with complex numbers), in elementary circuit theory and in basic electromagnetics.</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ELEC3204 Power Electronics and Applications</td>
<td>6</td>
<td>A: 1. Differential equations, linear algebra, complex variables, analysis of linear circuits. 2. Fourier theory applied to periodic and non-periodic signals. 3. Software such as MATLAB to perform signal analysis and filter design. 4. Familiarity with the use of basic laboratory equipment such as oscilloscope, function generator, power supply, etc. 5. Basic electric circuit theory and analysis</td>
<td>P: ELEC2104</td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ELEC3206 Electrical Energy Conversion Systems</td>
<td>6</td>
<td>A: Following concepts are assumed knowledge for this unit of study: familiarity with circuit theory, electronic devices, ac power, capacitors and inductors, and electric circuits such as three-phase circuits and circuits with switches, the use of basic laboratory equipment such as oscilloscope and power supply.</td>
<td>P: ELEC3203</td>
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<td>Semester 2</td>
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<tr>
<td>ELEC3304 Control</td>
<td>6</td>
<td>A: Specifically the following concepts are assumed knowledge for this unit: familiarity with basic Algebra, Differential and Integral Calculus, Physics; solution of linear differential equations, Matrix Theory, eigenvalues and eigenvectors; linear electrical circuits, ideal op-amps; continuous linear time-invariant systems and their time and frequency domain representations, Laplace transform, Fourier transform.</td>
<td>P: ELEC2302 AND (MATH2061 OR MATH2067 OR MATH2021 OR MATH2961 OR MATH3000)</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ELEC3305 Digital Signal Processing</td>
<td>6</td>
<td>A: Familiarity with basic Algebra, Differential and Integral Calculus, continuous linear time-invariant systems and their time and frequency domain representations, Fourier transform, sampling of continuous time signals.</td>
<td>P: ELEC2302</td>
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<td>Semester 1</td>
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<tr>
<td>ELEC3404 Electronic Circuit Design</td>
<td>6</td>
<td>A: A background in basic electronics and circuit theory assumed.</td>
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<td>Semester 1</td>
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<tr>
<td>ELEC3405 Communications Electronics and Photonics</td>
<td>6</td>
<td>A: ELEC2104. A background in basic electronics and circuit theory is assumed.</td>
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<td>Semester 2</td>
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<tr>
<td>ELEC3505 Communications</td>
<td>6</td>
<td>P: ELEC2302. Fourier transform, fundamental in signals and systems theory, convolution, and similar techniques.</td>
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<td>Semester 1</td>
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<tr>
<td>ELEC3506 Data Communications and the Internet</td>
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<td>Semester 2</td>
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<tr>
<td>ELEC3607 Embedded Systems</td>
<td>6</td>
<td>A: ELEC1601 AND ELEC2602. Logic operations, theorems and Boolean algebra, data representation, number operations (binary, hex, integers and floating point), combinational logic analysis and synthesis, sequential logic, registers, counters, bus systems, state machines, simple CAD tools for logic design, basic computer organisation, the CPU, peripheral devices, software organisation, machine language, assembly language, operating systems, data communications and computer networks.</td>
<td>P: ELEC1601 AND ELEC2602 AND (COMP2129 OR COMP2017)</td>
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<td>Semester 1</td>
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<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
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<tr>
<td>ELEC3608 Computer Architecture</td>
<td>6</td>
<td>A ELEC3607. Knowledge of microprocessor systems (embedded systems architecture, design methodology, interfacing and programming) is required.</td>
<td>P ELEC2602</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ELEC3609 Internet Software Platforms</td>
<td>6</td>
<td>P (INFO1103 OR INFO1110 OR INFO1910) AND (INFO2110 OR ISYS2110) AND (INFO2120 OR INFO2820 OR ISYS2120)</td>
<td>N EBUS3003</td>
<td></td>
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<td>Semester 2</td>
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<tr>
<td>ELEC3610 E-Business Analysis and Design</td>
<td>6</td>
<td>N EBUS3003</td>
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<td>Semester 1</td>
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<tr>
<td>ELEC3702 Management for Engineers</td>
<td>6</td>
<td>N ENGG3005 or MECH3661</td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ELEC3802 Fundamentals of Biomedical Engineering</td>
<td>6</td>
<td>A ELEC2004 or ELEC2104 A knowledge of basic electrical engineering is required: Ohm's law, Thevenin and Norton's theorems, basic circuit theory involving linear resistors, capacitors and inductors, a basic knowledge of bipolar and field effect transistor theory, simplified theoretical mechanism of operation of transformers.</td>
<td>P ELEC2104 OR ELEC2602.</td>
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<td>Semester 2</td>
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<tr>
<td>ENGG3800 Industry and Community Projects</td>
<td>6</td>
<td>A Upper-level disciplinary knowledge. Required knowledge will vary by project. Note: Department permission required for enrolment</td>
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<td>Intensive December</td>
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<td>February Intensive</td>
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<td>January Intensive</td>
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<td>Semester 2</td>
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<tr>
<td>INFO1113 Object-Oriented Programming</td>
<td>6</td>
<td>P INFO1110 OR INFO1910</td>
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<td>Semester 1</td>
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<td></td>
<td></td>
<td>N INFO1103 OR INFO1105 OR INFO1905</td>
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<td>Semester 2</td>
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<tr>
<td>INFO2150 Introduction to Health Data Science</td>
<td>6</td>
<td>A Basic knowledge of Entity Relationship Modelling, database technology and SQL</td>
<td>P INFO1003 OR INFO1003 OR INFO1103 OR INFO1110 OR INFO1910 OR DATA1002 OR DATA1902 AND (DATA1001 OR MATH1001 OR MATH1905 OR MATH1015 OR BUSS1020) OR DATA2001 OR DATA2901 OR ISYS2120 OR INFO2120 OR INFO2820 OR INFO1903</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>INFO2911 IT Special Project 2A</td>
<td>6</td>
<td>P [85% average in IT units of study in previous year] AND [Permission from the School of IT]</td>
<td>Note: Department permission required for enrolment</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>INFO2912 IT Special Project 2B</td>
<td>6</td>
<td>P [85% average in IT units of study in previous year] AND [Permission from the School of IT]</td>
<td>Note: Department permission required for enrolment</td>
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<td>Semester 2</td>
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<tr>
<td>INFO3315 Human-Computer Interaction</td>
<td>6</td>
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<td>Semester 2</td>
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<tr>
<td>INFO3616 Principles of Security and Security Eng</td>
<td>6</td>
<td>A (INFO1110 OR INFO1910) AND INFO1112 AND MATH1064. Knowledge equivalent to the above units is assumed. This means good programming skills in Python or a C-related language, basic networking knowledge, and skills from discrete mathematics. A technical orientation is absolutely required, especially capacity to become familiar with new technology without explicit supervision.</td>
<td>N ELEC5616 OR INFO2315</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>INFO3911 IT Special Project 3A</td>
<td>6</td>
<td>P [85% average in IT units of study in previous year] AND [Permission from the School of IT]</td>
<td>Enrolment by department permission for students with 85% average in School of IT units plus minimum 75% average in other units</td>
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<td>Semester 1</td>
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<tr>
<td>INFO3912 IT Special Project 3B</td>
<td>6</td>
<td>P [85% average in IT units of study in previous year] AND [Permission from the School of IT]</td>
<td>Enrolment by department permission for students with 85% average in School of IT units plus minimum 75% average in other units</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>ISYS2110 Analysis and Design of Web Info Systems</td>
<td>6</td>
<td>P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905</td>
<td></td>
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<td>Semester 1</td>
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<tr>
<td>ISYS2120 Data and Information Management</td>
<td>6</td>
<td>A Programming skills</td>
<td>P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905 OR INFO1003 OR INFO1903 OR DECO1012 OR ISYS2120 OR INFO2820 OR COMP5138</td>
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<td>Semester 2</td>
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<tr>
<td>ISYS2160 Information Systems in the Internet Age</td>
<td>6</td>
<td>A INFO1003 OR INFO1103 OR INFO1903 OR INFO1113</td>
<td></td>
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<td>Semester 2</td>
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<tr>
<td>ISYS3888 Information Systems Project</td>
<td>6</td>
<td>P (INFO2110 OR ISYS2110) AND (INFO2120 OR ISYS2120) AND (ISYS2140 OR ISYS2160)</td>
<td></td>
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<td>Semester 2</td>
</tr>
<tr>
<td>ISYS3401 Information Technology Evaluation</td>
<td>6</td>
<td>P (INFO2110 OR ISYS2110) AND (INFO2120 OR ISYS2120) AND (ISYS2140 OR ISYS2160)</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>ISYS3402 Decision Analytics and Support Systems</td>
<td>6</td>
<td>A Database Management AND Systems Analysis and Modelling</td>
<td>P (ISYS2120 OR INFO2110) AND (ISYS2120 OR INFO2120)</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH2400 Mechanical Design 1</td>
<td>6</td>
<td>A ENGG1801 and ENGG4160 (AMME1802 OR ENGG1802), HSC Maths and Physics</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>BMET2400 Mechanical Design 1</td>
<td>6</td>
<td>A ENGG1801 and ENGG4160 (AMME1802 OR ENGG1802), HSC Maths and Physics</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH3260 Thermal Engineering 2</td>
<td>6</td>
<td>A Fundamentals of thermodynamics and fluid mechanics are needed to begin this more advanced course</td>
<td>P AMME2200 OR AMME2262.</td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MECH3261 Fluid Mechanics 2</td>
<td>6</td>
<td>P AMME2200 OR (AMME2261 AND AMME2262)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MECH3361 Mechanics of Solids 2</td>
<td>6</td>
<td>P AMME2301 AND (AMME2362 OR AMME2302 OR CIVIL2110)</td>
<td></td>
<td></td>
<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>Unit of study</td>
<td>Credit points</td>
<td>A: Assumed knowledge</td>
<td>P: Prerequisites</td>
<td>C: Corequisites</td>
<td>N: Prohibition</td>
<td>Session</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
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</tr>
<tr>
<td>MECH3362 Materials 2</td>
<td>6</td>
<td>A (1) A good understanding of basic knowledge and principles of material science and engineering from Materials I and mechanics of solids for simple structural elements (in tension, bending, torsion); (2) Reasonable mathematical skills in calculation of stresses and strains in simple structural elements.</td>
<td>P AMME2301 AND (AMME2302 OR AMME1362 OR CIVL2110)</td>
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<tr>
<td>MECH5311 Microscopy and Microanalysis of Materials</td>
<td>6</td>
<td>A AMME1362 OR CIVL2110</td>
<td></td>
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<td>Semester 1</td>
</tr>
<tr>
<td>MTRX1702 Mechatronics 1</td>
<td>6</td>
<td>A MTRX1701 or ELEC1101 or ELEC2802 or COSC1902 or COSC1002</td>
<td></td>
<td></td>
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<td>Semester 2</td>
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<tr>
<td>MTRX1705 Introduction to Mechatronic Design</td>
<td>6</td>
<td></td>
<td></td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>MTRX2700 Mechatronics 2</td>
<td>6</td>
<td>A MTRX1701 and MTRX1705. Students are assumed to know how to program using the 'C' programming language. Additionally, students should understand the basic concepts behind simple digital logic circuits.</td>
<td>P MTRX1702 AND MTRX1705</td>
<td>N ELEC2601 or ELEC3607</td>
<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>MTRX3700 Mechatronics 3</td>
<td>6</td>
<td>A Completion of a first course in microprocessor systems, including assembly and C language programming, interfacing, introductory digital and analogue electronics.</td>
<td>P MTRX2700, N MECH4710</td>
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<tr>
<td>MTRX3760 Mechatronic Systems Design</td>
<td>6</td>
<td>P MTRX2700</td>
<td></td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>SOFT2201 Software Construction and Design 1</td>
<td>6</td>
<td>P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905</td>
<td>N INFO3220</td>
<td></td>
<td></td>
<td>Semester 2</td>
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<tr>
<td>SOFT2412 Agile Software Development Practices</td>
<td>6</td>
<td>P INFO1113 OR INFO1103 OR INFO1105 OR INFO1905</td>
<td></td>
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<td></td>
<td>Semester 2</td>
</tr>
<tr>
<td>SOFT3202 Software Construction and Design 2</td>
<td>6</td>
<td>P SOFT2201 OR INFO3220</td>
<td></td>
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<td></td>
<td>Semester 1</td>
</tr>
<tr>
<td>SOFT3410 Concurrency for Software Development</td>
<td>6</td>
<td>P INFO1105 OR INFO1905 OR (INFO1103 OR INFO1113) AND (COMP2123 OR COMP2823)</td>
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<td>Note: Department permission required for enrolment</td>
<td></td>
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<tr>
<td>SOFT3888 Software Development Project</td>
<td>6</td>
<td>A 18CP 2000-level or above units from SOFT, COMP or INFO</td>
<td>N SOFT3413</td>
<td></td>
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</tr>
</tbody>
</table>

A maximum of 48 credit points should be chosen from the Biomedical Stream Electives. A maximum of 12 credit points can be taken as General Engineering Electives. Refer to the relevant Major Table for requirements to complete that major within the Biomedical Engineering stream.

For a standard enrolment plan for Biomedical Engineering visit CUSP (https://cusp.sydney.edu.au).
RECOMMENDATION

That the Undergraduate Studies Committee recommend that Academic Board:
(1) approve the proposal from Sydney Law School to amend the Bachelor of Laws; and
(2) approve the amendment of course resolutions arising from this proposal, with effect from 1 January 2020.

EXECUTIVE SUMMARY

The purpose of this proposal is to make minor changes to the Bachelor of Laws course resolutions in order to ensure compliance with University policy, and to remove any ambiguity in the interpretation of the resolutions.

The proposed changes seek to:
  i. Amend the resolutions on suspension to ensure consistency with the amendments made to Part 13 of the Coursework Policy 2014;
  ii. Clarify the resolutions on cross-institutional study; and
  iii. Clarify the resolutions on credit for previous study.

ENDORSEMENT HISTORY

<table>
<thead>
<tr>
<th>Governance Body</th>
<th>Meeting Date</th>
<th>Conditional / Unconditional Endorsement</th>
<th>Has feedback from this committee been addressed?</th>
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<td>BIS</td>
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<td>CCPC / UE</td>
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</table>

ATTACHMENTS

1. Minor Course Amendment Proposal (Bachelor of Laws)
Minor Course Amendment Proposal

Faculty: The University of Sydney Law School
Contact person: Dr Kevin Walton, Associate Dean (Professional Law Programs)

1. Name of award course
   Bachelor of Laws

2. Purpose of proposal
   To amend the LLB resolutions (i) to make the language in the resolutions consistent with the Learning and Teaching Policy 2015; (ii) to clarify the resolutions on cross-institutional study; (iii) to make the resolutions on suspension consistent with Part 13 of the Coursework Policy 2014; and (iv) to clarify the resolutions on credit for previous study.

3. Details of amendment

8 Cross-institutional study
   In addition to the provisions for cross-institutional study described in the resolutions of the University of Sydney Law School, cross-institutional study is only available under the following terms:
   (a) Candidates are not permitted to undertake any core unit or Part 2 elective (Jurisprudence) on a cross-institutional basis;
   (b) Candidates must have completed a minimum of 48 credit points towards the Bachelor of Laws before undertaking any cross-institutional study;
   (c) Candidates can receive a maximum of 24 credit point for cross-institutional study;
   (d) Candidates must satisfy the usual progression rules and maximum enrolment requirements;
   (e) The proposed cross-institutional unit must be offered within another Bachelor of Laws or Juris Doctor or Master of Laws program at an approved law school;
   (f) Candidates who apply in their penultimate year cannot enrol in more than 12 credit points of cross-institutional study in that year;
   (g) Candidates who apply in their penultimate year cannot enrol in a cross-institutional unit that is offered within a Master of Laws program.
   (2) Cross-institutional study is regarded as another form of credit and will be counted as such when considering eligibility.
   (3) The resolutions on cross-institutional study apply to study on exchange or study abroad that is undertaken during the final year of the degree.

9 Suspension, discontinuation and lapse of candidature
   (1) Candidates are entitled to suspend their law candidature enrolment on up to two separate occasions during their candidature and for up to one year in total. The Head of School and Dean may permit a further suspension of one year in exceptional circumstances. Suspensions exceeding two years in total will not Any further suspension must be approved by the Associate Dean and will only be approved except in cases of serious illness or misadventure.
   (2) Candidates will not be permitted to suspend in order to complete another award course unless they can provide evidence that the award course can be completed within two years and they have not previously suspended.

10 Credit for previous study
   (1) The following credit provisions apply to the Bachelor of Laws only. Credit for non-law units is covered by the resolutions for the degree combined with the Bachelor of Laws.
   (2) A candidate may be granted a maximum of 48 credit points towards the requirements of the Bachelor of Laws. Of these, a maximum of 24 credit points of non-specific credit may be granted in lieu of elective units (excluding the compulsory Jurisprudence requirement). Specific credit will only be granted for equivalent core units of study undertaken as part of a Bachelor of Laws degree at an approved Australian law school.
   (b) A maximum of 24 credit points of non-specific credit may be granted for elective units (excluding the Jurisprudence requirement) undertaken as part of a Bachelor of Laws degree or equivalent award course at an approved law school.
   (3) A candidate may be granted credit for law units of study under the following conditions:
(a) The unit of study was offered as part of a Bachelor of Laws or equivalent award course within a law school at an approved institution; and

(b) The unit has similar assessment requirements to units offered by the School.

(4) A candidate may not be granted credit for units of study:
(a) for which the result is Terminating Pass, Conceded Pass or equivalent; or
(b) which have been relied upon to qualify for the award of another degree or qualification. The only exceptions made are for units of study which were undertaken as part of a Combined Law degree program and credited toward the non-law component of that program, or units taken as part of a completed overseas legal qualification.

(5) Candidates who have completed a law degree or equivalent professional legal qualification from a recognised law school outside Australia may be granted up to 42 credit points of non-specific credit, but will be required to complete all compulsory units listed in the University of Sydney Law School Undergraduate Table.

4. Transitional arrangements
No transitional arrangements are required.

5. Other relevant information

6. Signature of Dean

Date: 11/06/2019

Professor Cameron Stewart
A/Head of School and Dean
Bachelor of Laws

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the 'Coursework Rule'), the Coursework Policy 2014, the Resolutions of the School, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BGLAWLAW-01</td>
<td>Bachelor of Laws</td>
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</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Admission to candidature

Admission to this course is available through a combined degree program only. The degrees combined with the Bachelor of Laws are:

(a) Bachelor of Arts
(b) Bachelor of Commerce
(c) Bachelor of Economics
(d) Bachelor of Engineering
(e) Bachelor of Science

4 Requirements for the pass degree

(1) The units of study that may be taken for the course are set out in the Sydney Law School Undergraduate Table.
(2) To qualify for the award of the pass degree, a candidate must successfully complete 144 credit points taken from the Sydney Law School Undergraduate Table, comprising:
   (a) 102 credit points of core units of study (including specified units of study worth 0 credit points); and
   (b) 42 credit points of elective units of study, of which a maximum of 36 credit points are taken from Part 1 and a minimum of 6 credit points are taken from Part 2.
(3) Students may apply to take up to a maximum of 24 credit points of LAW6000/JURS6000 units of study as elective units of study, enrolment in LAW6000/JURS6000 units of study will be subject to availability and any unit pre-requisites or assumed knowledge, which may include relevant industry experience or prior specialist study.
   (b) enrolment in LAW6000/JURS6000 units is only permitted after a candidate has completed 96 credit points towards the Bachelor of Laws.
   (c) students may only enrol in LAW6000/JURS6000 units listed in the Bachelor of Laws Elective units of study Table.
(4) A candidate may substitute one core unit of study with one elective unit of study in each semester of their penultimate year. Where such a replacement has occurred, a candidate must enrol in the deferred core unit(s) in their final year of the program. A candidate may not enrol in more than two electives in total in their penultimate year.

5 Requirements for the Honours degree

(1) Honours in the Bachelor of Laws is available to meritous students who complete an alternative set of units of study in the final year of the program. Admission requires a minimum WAM of at least 75 in core Law units of study completed to that point, with the exception of the unit of study Foundations of Law. Results in elective units will not be included in the WAM. Places in the Honours program are limited by available resources and entry is competitive. A higher WAM may be necessary for entry in any given year.
(2) To qualify for the award of the Honours degree, a candidate must successfully complete 144 credit points taken from the Sydney Law School Undergraduate Table, comprising:
   (a) 102 credit points of core units of study (including specified units of study worth 0 credit points); and
   (b) 30 credit points of elective units of study, of which a maximum of 24 credit points are taken from Part 1 and a minimum of 6 credit points are taken from Part 2; and
   (c) 12 credit points of Honours dissertation units of study.
(3) Students may apply to take up to a maximum of 24 credit points of LAW6000/JURS6000 units of study as elective units of study, enrolment in LAW6000/JURS6000 units of study will be subject to availability and any unit pre-requisites or assumed knowledge, which may include relevant industry experience or prior specialist study.
   (b) enrolment in LAW6000/JURS6000 units is only permitted after a candidate has completed 96 credit points towards the Bachelor of Laws.
   (c) students may only enrol in LAW6000/JURS6000 units listed in the Bachelor of Laws Elective units of study Table.
(4) The award of Honours also requires the completion of the combined degree in the standard minimum full time duration for that combined program. The grade of Honours will be determined by the candidate's Honours WAM (HWAM).
(5) The HWAM is calculated from a minimum of 96 credit points of Law units of study, including all core and elective units of study undertaken at the University of Sydney, with the exception of the unit of study Foundations of Law. The Honours units carry a weighting of two while all other units carry a weighting of one.

6 Award of the degree

(1) The Bachelor of Laws is awarded in the grades of either Pass or Honours. The Honours degree is awarded in either First Class or Second Class, as specified below:
In addition to the provisions for cross-institutional study described in the resolutions of the University of Sydney Law School, cross-institutional study is only available under the following terms:

(a) Candidates are not permitted to undertake any core unit or Part 2 elective (Jurisprudence) on a cross-institutional basis;
(b) Candidates must have completed a minimum of 48 credit points towards the Bachelor of Laws before undertaking any cross-institutional study;
(c) Candidates can receive a maximum of 24 credit points for cross-institutional study;
(d) Candidates must satisfy the usual progression rules and maximum enrolment requirements;
(e) The proposed cross-institutional unit must be offered within another Bachelor of Laws or Juris Doctor or Master of Laws program at an approved law school;
(f) Candidates who apply in their penultimate year cannot enrol in more than 12 credit points of cross-institutional study in that year.
(g) Candidates who apply in their penultimate year cannot enrol in a cross-institutional unit that is offered within a Masters of Laws program.

Cross-institutional study is regarded as another form of credit and will be counted as such when considering eligibility.

The resolutions on cross-institutional study apply to study on exchange or study abroad that is undertaken during the final year of the degree.

Suspension, discontinuation and lapse of candidature

Candidates are entitled to suspend their candidature enrolment on up to two separate occasions during their candidature and for up to one year in total. The Head of School and Dean may permit a further suspension of one year in exceptional circumstances. Suspensions exceeding two years in total will not be approved. Any further suspension must be approved by the Associate Dean and will only be approved except in cases of serious illness or misadventure. Candidates will not be permitted to suspend in order to complete another award course unless they can provide evidence that the award course can be completed within two years and they have not previously suspended.

Credit for previous study

(1) The following credit provisions apply to the Bachelor of Laws only. Credit for non-law units is covered by the resolutions for the degree combined with the Bachelor of Laws.

(2) A candidate may be granted a maximum of 48 credit points towards the requirements of the Bachelor of Laws. Of those, a maximum of 24 credit points of non-specific credit may be granted for elective units (excluding the compulsory Jurisprudence requirement):

(a) Specific credit will only be granted for equivalent core units of study undertaken as part of a Bachelor of Laws degree at an approved Australian law school.
(b) A maximum of 24 credit points of non-specific credit may be granted for elective units (excluding the Jurisprudence requirement) undertaken as part of a Bachelor of Laws degree or equivalent award course at an approved law school.

(3) A candidate may be granted credit for law units of study under the following conditions which have similar assessment requirements to units offered by the School:

(a) The unit of study was offered as part of a Bachelor of Laws or equivalent award course within a law school at an approved institution; and
(b) The unit has similar assessment requirements to units offered by the School.

(4) A candidate may not be granted credit for units of study:

(a) for which the result is Terminating Pass, Conceded Pass or equivalent; or
(b) which have been relied upon to qualify for the award of another degree or qualification. The only exceptions made are for units of study which were undertaken as part of a Combined Law degree program and credited toward the non-law component of that program, or units taken as part of a completed overseas legal qualification. Candidates who have completed a law degree or equivalent professional legal qualification from a recognized law school outside Australia may be granted up to 42 credit points of non-specific credit, but will be required to complete all core units listed in the University of Sydney Law School Undergraduate Table.

Transitional provisions

(1) These resolutions apply to candidates who commenced their candidature on or after 1 January, 2020.

(2) Subject to sub-rule (3), candidates who commenced prior to 1 January, 2017 should complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2022. The School may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.

(3) For all students who commenced their candidature prior to 1 January 2017, eligibility for the award of Honours will depend upon the time at which the student completes the requirements for the award of the degree. Notwithstanding sub-rule (2), where a student completes those requirements after 31 July 2022, the award of Honours will be solely determined according to the requirements stated in clause 5 of these resolutions.
Non-Confidential

<table>
<thead>
<tr>
<th>Author</th>
<th>Jane Conway, Senior Manager Education, Faculty of Medicine and Health</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewer/Approver</td>
<td>Professor Inam Haq, Associate Dean Education, Faculty of Medicine and Health</td>
</tr>
<tr>
<td>Paper title</td>
<td>Amended Course Resolutions to reflect the new organisational structure of the Faculty of Medicine and Health (FMH) from 2020 and consequent changes to the Faculty Resolutions.</td>
</tr>
<tr>
<td>Purpose</td>
<td>Approval is sought for the amended Course Resolutions to reflect the new organisational structure of the Faculty of Medicine and Health from 2020 and consequent changes to the Faculty Resolutions. These include and incorporate amended Course Resolutions from the Faculty of Health Sciences (FHS).</td>
</tr>
</tbody>
</table>

RECOMMENDATION

That the Undergraduate Studies Committee recommend that the Academic Board:
(1) approve the proposal from the Faculty of Medicine & Health and the Faculty of Health Sciences to amend the Bachelor of Pharmacy, Bachelor of Pharmacy (Honours), Bachelor of Pharmacy & Management, Bachelor of Pharmacy & Management (Honours), Bachelor of Arts / Master of Nursing, Bachelor of Nursing (Advanced Studies), Bachelor of Nursing (Honours), Bachelor of Science (Health) / Master of Nursing, Bachelor of Science / Master of Nursing, Bachelor of Oral Health, Bachelor of Applied Science (Diagnostic Radiography), Bachelor of Applied Science (Exercise & Sport Science), Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise & Sport Science), Bachelor of Applied Science (Exercise Physiology), Bachelor of Applied Science (Occupational Therapy), Bachelor of Applied Science (Physiotherapy) and Bachelor of Applied Science (Speech Pathology);
(2) approve the amendment of course resolutions arising from this proposal; and
(3) approve the consequent amendment of the Resolutions of Faculty for the Faculty of Medicine and Health, with effect from 1 January 2020.

EXECUTIVE SUMMARY

Changes have been made to the existing FMH and FHS Course Resolutions to reflect the new Faculty of Medicine and Health organisational structure. The aim of this work is to display the new and complete FMH structure in the 2020 Handbook and incorporate the Faculty of Health Sciences as a School. Changes to the Course Resolutions have also been required as a consequence of establishing new and revised Faculty Resolutions.

The Sydney Pharmacy School; Sydney Nursing School, Sydney Dental School and Faculty of Health Sciences have reviewed and refined the Course Resolutions for their respective Undergraduate Coursework programs to give full expression to the new FMH structure. These are:

**Pharmacy Undergraduate**
- Bachelor of Pharmacy
- Bachelor of Pharmacy (Honours)
- Bachelor of Pharmacy and Management
- Bachelor of Pharmacy and Management (Honours)

**Nursing Undergraduate**
- Bachelor of Arts/Master of Nursing
- Bachelor of Nursing (Advanced Studies)
- Bachelor of Nursing (Honours)
- Bachelor of Science (Health)/Master of Nursing
Non-Confidential
- Bachelor of Science/Master of Nursing

Dentistry Undergraduate
- Bachelor of Oral Health

Faculty of Health Sciences (Undergraduate)
- Bachelor of Applied Science (Diagnostic Radiography)
- Bachelor of Applied Science (Exercise and Sport Science)
- Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science)
- Bachelor of Applied Science (Exercise Physiology)
- Bachelor of Applied Science (Occupational Therapy)
- Bachelor of Applied Science (Physiotherapy)
- Bachelor of Applied Science (Speech Pathology)

ATTACHMENTS

PDF Files:
- FMH_MCAP_CE_UGSC_combined_2019.06.11_REVISED.pdf
- FHS_MCAP_undergraduate_Course Resolutions
Non-Confidential

<table>
<thead>
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<th>Author</th>
<th>Narelle Da Costa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reviewer/Approver</td>
<td>Prof. Inam Haq</td>
</tr>
<tr>
<td>Paper title</td>
<td>Sydney Pharmacy School: Minor Course Amendment Proposal</td>
</tr>
<tr>
<td>Purpose</td>
<td>The purpose of this proposal is to seek approval of the Undergraduate Studies Committee for amendments to the Senate Resolutions and Course Resolutions for undergraduate coursework degrees.</td>
</tr>
</tbody>
</table>

**RECOMMENDATION**

That the Undergraduate Studies Committee review and approve the amendments of the Senate and Course Resolutions for the following degree programs:

- Bachelor of Pharmacy (Attachment 1)
- Bachelor of Pharmacy (Honours)
- Bachelor of Pharmacy and Management (Attachment 2)
- Bachelor of Pharmacy and Management (Honours)

**EXECUTIVE SUMMARY**

It is proposed that these changes to the Senate and Course Resolutions will be effective from 2020.

**BACKGROUND / CONTEXT**

As Sydney Pharmacy School will no longer have Faculty Resolutions from 2020, information pertaining to Pharmacy undergraduate coursework degrees within the previous Pharmacy Faculty Resolutions and Local Provisions will be migrated to the Course Resolutions.

**CONSULTATION**

The changes were approved by the FMH Educational Committee via circulation and the FMH Faculty Board approved the changes on 11 April 2019.

**IMPLEMENTATION**

These changes will be updated within the 2020 Faculty of Medicine and Health Handbook.

**COMMUNICATION**

These changes will be updated within the 2020 Faculty of Medicine and Health Handbook.

**ATTACHMENTS**

Attachments (1 - 2) outline the amendments to the Course Resolutions for each undergraduate coursework degree.
Minor Course Amendment Proposal – Course Resolutions and Senate Resolutions

Faculty: Faculty of Medicine and Health (Sydney Pharmacy School)

Contact person:

1. **Name of award course**
   - Bachelor of Pharmacy
   - Bachelor of Pharmacy (Honours)
   - Bachelor of Pharmacy and Management
   - Bachelor of Pharmacy and Management (Honours)

2. **Purpose of proposal**
   To amend the Senate Resolutions and Course resolutions of the degrees to update references of Faculty to School and migrate information from previous Faculty Resolutions and Local Provisions.

3. **Details of amendment**
   **Course Resolutions**
   - Bachelor of Pharmacy/Bachelor of Pharmacy (Honours) – amend references of Faculty to School and references of Dean to Head of School and Dean and include the following in the Course Resolutions: Time Limits (Clause 6), Credit for previous study (Clause 6), International Exchange (Clause 7), Attendance requirements (Clause 8), Re-assessment provisions (Clause 10), Award of Honours degree (Clause 14), University Medal (Clause 15).
   - Bachelor of Pharmacy and Management/Bachelor of Pharmacy and Management (Honours) – amend references of Faculty to School and references of Dean to Head of School and Dean and include the following in the Course resolutions: Time Limits (Clause 6), Credit for previous study (Clause 6), International Exchange (Clause 7), Attendance requirements (Clause 8), Re-assessment provisions (Clause 10), Award of Honours degree (Clause 14) and University Medal (Clause 15).

   **Senate Resolutions** - amend references of Faculty of Pharmacy to Faculty of Medicine and Health or School of Pharmacy.

4. **Transitional arrangements**
   These changes will apply to candidates from 2020.

5. **Other relevant information**
   The Bachelor of Pharmacy Third Year Local Provision 2013 and the Final Year Assessment Provision 2016 have also been incorporated into the Course resolution changes.

6. **Signature of Head of School and Dean**
   
   Professor Andrew McLachlan
Bachelor of Pharmacy

Bachelor of Pharmacy (Honours)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the ‘Coursework Rule’), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1 Course codes

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<thead>
<tr>
<th>Code</th>
<th>Course title</th>
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<tbody>
<tr>
<td>BUPHARMA-01</td>
<td>Bachelor of Pharmacy</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Admission to candidature

Admission to undergraduate courses at the University of Sydney is either on the basis of completion of secondary study via the NSW Higher School Certificate, leading to the award of an Australian Tertiary Admission Ranking (ATAR) or equivalent (and subject to special admissions provisions as set out in the Coursework Policy) or on the basis of Flexible Special Entry Admission as set out in Admissions section of the Coursework Policy.

4 Requirements for award

(1) The units of study that may be taken for the course are set out in the Units of Study table for the Bachelor of Pharmacy.

(2) To qualify for the award of the pass degree, a candidate must successfully complete 192 credit points, including:

(a) 144 core credit points in the first three years (including PHAR3100); and

(b) an additional 48 credit points consisting of 18 credit points of core units (including PHAR4100) and 30 credit points of 4000-level units from either:

(i) 48 credit points of core coursework units of study; or

(ii) 24 credit points of core Honours units of study plus 24 credit points of major units of study; or

(iii) Industrial Placement or International Exchange elective units of study.

5 Time Limits

(1) A student must complete all the requirements for a bachelor’s degree or undergraduate advanced diploma within ten calendar years of first enrolment.

(2) All time limits include any period(s) of suspension.

6 Credit for previous study

For units of study offered by the Sydney Pharmacy School, credit will not usually be granted for recognised prior learning older than five years at the time of first enrolment in the unit or course for which credit is sought. For other units of study credit transfer is subject to the provisions of the Coursework Policy.

7 International Exchange

Exchange for pharmacy students is not straightforward due to the strict requirements of the pharmacy courses. For students enrolled in the international elective of the Bachelor of Pharmacy, international exchange is permitted in semester 2 of the final year.

8 Attendance requirements

(1) Students are required to be in attendance at the correct time and place of any formal or informal examinations. Non attendance on any grounds insufficient to claim special consideration will result in the forfeiture of marks associated with the assessment. Participation in a minimum number of assessment items may be included in the requirements specified for a unit of study.

(2) Students are expected to attend a minimum of 85% of compulsory activities for a unit of study, unless granted exemption by the Head of School and Dean. Associate Dean or coordinator. The Head of School and Dean, Associate Dean or coordinator most concerned may determine that a student fails a unit of study because of inadequate attendance. Alternatively, at their discretion, they may set additional assessment items where attendance is lower than 90%.

9 Additional requirements prior to commencing clinical placements

(1) Information about the procedures for gaining clearance for clinical placements will be provided after enrolment.

(2) Student clearance for clinical placements

The New South Wales Department of Health requires that all students obtain clearance in order to undertake clinical placements. This involves a criminal record check according to NSW Health policy.

All students should complete a prohibited employment declaration as required by the NSW Commission for Children and Young People.

(3) Immunisation

All students must have evidence of vaccinations and immunisation against certain infectious diseases prior to undertaking clinical placements. The requirements are consistent with Australian public health policy and NSW Health guidelines.
10 Re-assessment

1. Re-assessment may be permitted if students in their final year fail a single compulsory assessment resulting in a grade of fail in only that unit of study, preventing them from completing the degree that year. A grade of 50 Pass is the maximum grade a student can achieve if they pass the re-assessment.

2. The re-assessment will be in the form determined by the School. This may include one or more of the following, or other tasks as specified by the School:
   (i) supplementary examinations
   (ii) additional placements
   (iii) tutorials
   (iv) lectures
   (v) laboratory sessions.

3. Re-assessment for final year students will be conducted during the Replacement Exam period at the end of semester two.

4. Final year students who do not meet the requirements of 10(1), will not be permitted to undertake re-assessments and must re-enroll in, and successfully complete, the failed units of study.

5. Students enrolled in PHAR3000-level units may be permitted re-assessment for two compulsory components (main exam or OSCE) provided they have met the School attendance requirements.
   (a) A student may not undertake more than one supplementary assessment for the same compulsory component.
   (b) Supplementary assessments for PHAR3000-level units will be offered to eligible students at the end of the year.
   (c) Students who pass the supplementary assessment will receive a pass grade and mark of 50 percent for that assessment, or if the assessment is worth more than 50 percent of the unit of study, a pass grade and mark of 50 for the whole unit of study.
   (d) Students who have been approved for special consideration may be allowed to sit the exam or submit the required work at a negotiated date that should not be longer than the period of incapacitation, and in any case normally not longer than 3 months after the original examination or submission date. After this time the student will be considered to have discontinued with permission. Marks will be awarded at full value for re-assessment where special consideration is approved.

11 Progression rules

1. Candidates may not take a second year unit of study until they have successfully completed the first year units of study, prescribed by the School as qualifying or prerequisite units of study for the second year, as set out in the Units of Study table.

2. Candidates who fail only one first year unit of study and have no previous record of failure in the degree, who have an annual average mark (AAM) of [greater than or equal to] 60 for first year, may apply to the Head of School and Dean for a prerequisite waiver which would allow enrolment in the full complement of second year units of study, together with the failed unit of study successfully completed the first year units of study, prescribed by the Faculty as qualifying or prerequisite units of study for the second year, as set out in the Units of Study table.

3. Candidates may not take a third year unit of study until they have successfully completed all the first year units of study, and successfully completed the second year units of study, prescribed by the Faculty / School as qualifying or prerequisite units of study for the third year, as set out in the Units of Study table.

4. Candidates may not take a fourth year unit of study until they have successfully completed all the third year units of study, as set out in the Units of Study table except as permitted by 11(5).

5. Candidates who fail only one third year unit of study (except PHAR3820, PHAR3815, PHAR3825), and who have an average annual mark (AAM) of [greater than or equal to] 60 for third year, may apply to the Head of School and Dean for a prerequisite waiver which would allow enrolment in the full complement of subsequent year units of study, together with the failed unit of study. This condition applies only to a fail in a single unit of study, not to the OSCE (Objective Structured Clinical Examination), which is a barrier examination and a component of all units of study (except PHAR3815, PHAR3825, and PHAR3100 and PHAR3200). Candidates who fail the OSCE will not be entitled to apply for a prerequisite waiver and will be required to satisfactorily repeat ALL third year units of study (with the exception of PHAR3815, PHAR3825, and PHAR3100 and PHAR3200) if these Units of Study have already been passed.

12 Electives

1. Completion of an elective major is not a requirement of the course. Candidates have the option of completing one major elective. An elective major requires the completion of 24 credit points chosen from units of study listed in the table for that major elective. The major electives that may be available are:
   (a) Rural Industrial Placement
   (b) International

13 Requirements for the Honours degree

1. The Head of School and Dean may admit a student to the integrated Honours program if:
   (a) a student has no fail or absent fail results; and
   (b) has a WAM of at least 65 in second and third year units of study; and
   (c) an academic staff member has agreed to supervise the student's Honours research project; and
   (d) the student has met the requirements stated in the Pharmacy Professionalism Expectations Provisions 2017.

2. Honours students can progress to second semester Honours only if they obtain a credit average in their first semester marks. Students who fail this requirement will go back to the Pass coursework stream, fourth year second semester.

14 Award of the degree

1. The Bachelor of Pharmacy is awarded in the grades of either Pass or Honours. The honours degree is awarded in classes according to the conditions specified in the Resolutions for the Faculty of Pharmacy.

2. Candidates for the award of the Honours degree who do not meet the requirements, but who have otherwise satisfied the course requirements, will be awarded the Pass degree. To qualify for the award of the honours degree a candidate must:
   (a) complete the requirements for the pass degree but include the alternative 30 credit point honours pathway described in the Units of Study table for the degree;
   (b) normally be of no more than four years standing in the degree; and
   (c) normally have no fail or absent fail results.

3. The level of honours will be determined by both the honours mark and the HWAM as indicated in the table below. If the honours mark and HWAM indicate a different level of honours, the lesser level will be awarded.

<table>
<thead>
<tr>
<th>Level of honours</th>
<th>Honours mark</th>
<th>HWAM</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
<td>mark [greater than or equal to] 85</td>
<td>mark [greater than or equal to] 75</td>
</tr>
<tr>
<td>Second Class, Division 1</td>
<td>mark [greater than or equal to] 80</td>
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</tr>
<tr>
<td>Second Class, Division 2</td>
<td>mark [greater than or equal to] 75</td>
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<tr>
<td>-----------------</td>
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<td>------</td>
</tr>
<tr>
<td>Honours not awarded</td>
<td>mark &lt; 75</td>
<td>mark &lt; 65</td>
</tr>
</tbody>
</table>

(4) A candidate for the Honours program who does not meet the requirements for the award of honours shall be awarded the pass degree.

(5) HWAM means the Honours Weighted Mark calculated from results for all 2000, 3000 and 4000 level units attempted for the degree, weighted 2, 3 and 4 for their respective levels. The Honours units of study are given a weighting of 8 in this calculation.

15 **University Medal**

A student who is awarded Honours Class I and achieves a minimum final honours mark of 90 or greater in both honours units of study, and who also achieves a final WAM of 85 or greater over the entire degree, may be awarded a University Medal. The calculation of the final honours mark will be based on a 20 per cent weighting of the mark awarded for PHAR4815 and an 80 per cent weighting on the mark awarded for PHAR4830. The medal is awarded at the discretion of the School to the highest achieving students who in the opinion of the School have an outstanding academic record, in accordance with the Coursework Policy.

16 **Transitional provisions**

These resolutions apply to all students enrolled in all years of the Bachelor of Pharmacy from 1 January 2019 to 2020.
Bachelor of Pharmacy and Management
Bachelor of Pharmacy and Management (Honours)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the ‘Coursework Rule’), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1 Course codes

<table>
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<tr>
<th>Code</th>
<th>Course title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUPHAMGT-01</td>
<td>Bachelor of Pharmacy and Management</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Admission to candidature

(1) Admission to undergraduate courses at the University of Sydney is either on the basis of completion of secondary study via the NSW Higher School Certificate, leading to the award of an Australian Tertiary Admission Ranking (ATAR) or equivalent (and subject to the special admissions provisions as set out in the Coursework Policy).

4 Requirements for award

(1) The units of study that may be taken for the course are set out in the Units of Study table for the Bachelor of Pharmacy and Management.

(2) To qualify for the award of the pass degree, a candidate must complete 240 credit points, comprising of:

   (a) 192 credit points of core units of study in the first four years (including PHAR3100); and
   (b) an additional 48 credit points consisting of 18 credit points of core units (including PHAR4100) and 30 credit points from either:

      (i) 48 credit points of core Year 5 coursework units of study; or
      (ii) 24 credit points of core Year 5 Honours units of study; or
      (iii) Year 5 elective units of study.

5 Time Limits

(1) A student must complete all the requirements for a bachelor's degree or undergraduate advanced diploma within ten calendar years of first enrolment.

(2) All time limits include any period(s) of suspension.

6 Credit for previous study

For units of study offered by the Sydney Pharmacy School, credit will not usually be granted for recognised prior learning older than five years at the time of first enrolment in the unit or course for which credit is sought. For other units of study credit transfer is subject to the provisions of the Coursework Policy.

7 International Exchange

Exchange for pharmacy students is not straightforward due to the strict requirements of the pharmacy courses. For students enrolled in the international elective of the Bachelor of Pharmacy and Management, international exchange is permitted in semester 2 of the final year.

8 Attendance requirements

(1) Students are required to be in attendance at the correct time and place of any formal or informal examinations. Non attendance on any grounds insufficient to claim special consideration will result in the forfeiture of marks associated with the assessment. Participation in a minimum number of assessment items may be included in the requirements specified for a unit of study.

(2) Students are expected to attend a minimum of 85% of compulsory activities for a unit of study, unless granted exemption by the Head of School and Dean, Associate Dean or coordinator. The Head of School and Dean, Associate Dean or coordinator most concerned may determine that a student fails a unit of study because of inadequate attendance. Alternatively, at their discretion, they may set additional assessment items where attendance is lower than 90%.

9 Additional requirements prior to commencing clinical placements

(1) Information about the procedures for gaining clearance for clinical placements will be provided after enrolment.

(2) Student clearance for clinical placements

The New South Wales Department of Health requires that all students obtain clearance in order to undertake clinical placements. This involves a criminal record check according to NSW Health policy.

All students should complete a prohibited employment declaration as required by the NSW Commission for Children and Young People.

(3) Immunisation

All students must have evidence of vaccinations and immunisation against certain infectious diseases prior to undertaking clinical placements. The requirements are consistent with Australian public health policy and NSW Health guidelines.
10 Re-assessment

(1) Re-assessment may be permitted if students in their final year fail a single compulsory assessment resulting in a grade of fail in only that unit of study, preventing them from completing the degree that year. A grade of 50 Pass is the maximum grade a student can achieve if they pass the re-assessment.

(a) The re-assessment will be in the form determined by the School. This may include one or more of the following, or other tasks as specified by the School:

(i) supplementary examinations
(ii) additional placements
(iii) tutorials
(iv) lectures
(v) laboratory sessions

(2) Re-assessments for final year students will be conducted during the Replacement Exam period at the end of semester two.

(3) Final year students who do not meet the requirements of (1) above, will not be permitted to undertake re-assessments and must re-enrol in, and successfully complete, the failed units of study.

(4) Students enrolled in PHAR3000-level units may be permitted re-assessment for two compulsory components (main exam or OSCE) provided they have met the School attendance requirements.

(a) A student may not undertake more than one supplementary assessment for the same compulsory component.

(b) Supplementary assessments for PHAR3000-level units will be offered to eligible students at the end of the year.

(c) Students who pass the supplementary assessment will receive a pass grade and mark of 50% for that assessment or if the assessment is worth more than 50% of the unit of study, a pass grade and mark of 50 for the whole unit of study.

(d) Students who have successfully requested special consideration may be allowed to sit the exam or submit the required work at a negotiated date that should not be longer than the period of incapacitation, and in any case not normally longer than 3 months after the original examination or submission date. After this time the student will be considered to have discontinued with permission. Marks will be awarded at full value for re-assessment where special consideration is approved.

11 Progression rules

(1) Candidates may not take a second or third year unit of study until they have successfully completed the units of study prescribed by the Faculty School as qualifying or prerequisite units of study, as set out in the Units of Study table.

(a) successfully completed the units of study prescribed by the Faculty as qualifying or prerequisite units of study, as set out in the Units of Study table.

(2) Candidates who fail only one first year unit of study and have no previous record of failure in the degree, who have an annual average mark (AAM) of [greater than or equal to] 60 for that year, may apply to the Head of School and Dean for a prerequisite waiver which would allow enrolment in the full complement of units of study in the following year, together with the failed unit of study.

(3) Candidates may not take a fourth year unit of study until they have successfully completed all first and second year units of study, and successfully completed the third year units of study, prescribed by the Faculty School as qualifying or prerequisite units of study for the fourth year as set out in the Units of Study table.

(4) Candidates may not take a fifth year unit of study until they have successfully completed all the fourth year units of study as set out in the Units of Study table except as permitted in (5).

(5) Candidates who fail only one fourth year unit of study (except PHAR3820, PHAR3815, PHAR3825), and who have an annual average mark (AAM) of [greater than or equal to] 60 for fourth year, may apply to the Head of School and Dean for a prerequisite waiver which would allow enrolment in the full complement of subsequent year units of study, together with the failed unit of study. This condition applies only to a fail in a single unit of study, not to the OSCE (Objective Structured Clinical Examination), which is a barrier examination and a component of all units of study (except PHAR315, PHAR3825 and PHAR3100 and PHAR3200). Candidates who fail the OSCE will not be entitled to apply for a prerequisite waiver and will be required to satisfactorily repeat ALL fourth year units of study (with the exception of PHAR315, PHAR3825 and PHAR3100 and PHAR3200 if these Units of Study have already been passed.)

12 Electives

(1) Completion of an elective is not a requirement of the course. Candidates have the option of completing one elective. An elective requires the completion of 24 credit points chosen from units of study listed in the table for that elective. The electives that may be available are:

(a) Industrial Placement
(b) International Exchange

13 Requirements for the Honours degree

(1) The Head of School and Dean may admit a student to the integrated Honours program if:

(a) a student has no fail or absent fail results; and
(b) has a WAM of at least 65 in second, third and fourth year units of study; and
(c) an academic staff member has agreed to supervise the student's Honours research project; and
(d) the student has met the requirements stated in the Pharmacy Professionalism Expectation Provisions 2017.

(2) Honours students can progress to second semester Honours only if they obtain a credit average in their first semester marks. Students who fail this requirement will go back to the Pass stream, fifth year second semester.

14 Award of the degree

(1) The Bachelor of Pharmacy and Management is awarded in the grades of either Pass or Honours. The honours degree is awarded in classes according to the conditions specified in the Resolutions for the Faculty of Pharmacy.

(2) Candidates for the award of the Honours degree who do not meet the requirements, but who have otherwise satisfied the course requirements, will be awarded the pass degree. To qualify for the award of the Honours degree a candidate must:

(a) complete the requirements for the pass degree but include the alternative 30 credit point honours pathway described in the Units of study table for the degree;
(b) normally be of no more than five years standing in the degree; and
(c) normally have no fail or absent fail results.

(3) The level of honours will be determined by both the honours mark and the HWAM as indicated in the table below. If the honours mark and HWAM indicate a different level of honours, the lesser level will be awarded.

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</tr>
</tbody>
</table>

(4) A candidate for the honours program who does not meet the requirement for the award of honours shall be awarded the pass degree.

(5) HWAM means the Honours Weighted Mark calculated from results for all 2000, 3000, 4000 and 5000 level units attempted for the degree, weighted 2, 3, 4 and 5 for their respective levels. The Honours units of study are given a weighting of 8 in this calculation.

15 University Medal

A student who is awarded Honours Class I and achieves a minimum final honours mark of 90 or greater in both honours units of study, and who also achieves a final WAM of 85 or greater over the entire degree, may be awarded a University Medal. The calculation of the final honours mark will be based on a 20 per cent weighting of the mark awarded for PHAR4815 and an 80 per cent weighting on the mark awarded for PHAR4830. The medal is awarded at the discretion of the School to the highest achieving students who in the opinion of the School have an outstanding academic record, in accordance with the Coursework Policy.

16 Transitional Provisions

These resolutions apply to all students enrolled in all years of the Bachelor of Pharmacy and Management from 1 January 2020.
The purpose of this proposal is to advise the Undergraduate Studies Committee of changes to multiple undergraduate course resolutions within the Sydney Nursing School degree programs.

**RECOMMENDATION**

That the Undergraduate Studies Committee approve the below listed minor course amendment proposals. That the Undergraduate Studies Committee approve for these amendment to be effective from the 1 January 2020.

**EXECUTIVE SUMMARY**

It is proposed that in the course resolutions for the below listed degrees, specific English requirements relating to these degrees are added to each course resolution. Further, it is proposed that references to specific roles that formerly held delegations be changed to "relevant delegated authority" for the singular usage or "relevant delegated authorities" for the plural usage.

In 2018, the Sydney Nursing School joined multiple schools to form the Faculty of Medicine and Health. In 2019, the Faculty of Medicine and Health published a single handbook however, consolidated the individual school resolutions into a sub directory of the faculty resolutions. In 2020, those sub categories of resolutions will be published as a single set of faculty resolutions. These new faculty resolutions will remove references to English requirements that guided Sydney Nursing School courses and as such, these resolutions are being moved to the course resolutions. Further, the delegations within the Faculty of Medicine and Health have changed and may continue to change and as such all references to a specific delegated role have been changed to "relevant delegated authority" for the singular usage or "relevant delegated authorities" for the plural usage, so as to better reflect the current delegations.

The changes were approved by the Sydney Nursing School Curriculum Sub-Committee and the school Learning and Teaching Committee on 16 of April 2019 and the Faculty of Medicine and Health Education Committee on the 6 June 2019. The Faculty of Medicine and Health Faculty Board approved the changes on 20 June 2019.

These changes are proposed to make interpretation of course requirements easier for staff and students and to allow all course specific rules that are not shared across the Faculty of Medicine and Health to be located within the course resolutions.

The below listed courses require this change and have associated minor amendment forms:
- Bachelor of Nursing (Advanced Studies)
- Bachelor of Nursing (Honours)
- Bachelor of Arts/Master of Nursing
- Bachelor of Science/Master of Nursing
- Bachelor of Science (Health)/Master of Nursing
Minor Course Amendment Proposal

Faculty: Faculty of Medicine and Health – Susan Wakil School of Nursing and Midwifery

Contact person: Stuart Skene or Jenny Green

1. Name of award course
   BPARTNUR-01 Bachelor or Arts/Master of Nursing

2. Purpose of proposal
   The purpose of this proposal is to advise the Undergraduate Studies committee of changes to the course resolutions of the Bachelor of Arts/Master of Nursing from 2020.

3. Details of amendment
   In 2018, the Sydney Nursing School joined multiple schools to form the Faculty of Medicine and Health. In 2019, the Faculty of Medicine and Health published a single handbook however, consolidated the individual school resolutions into a sub directory of the faculty resolutions. In 2020, those sub categories of resolutions will be published as a single set of faculty resolutions. These new faculty resolutions will remove reference to English requirements that guided the Sydney Nursing School courses and as such, the resolutions are being moved to the course resolutions. Further, the delegations within the Faculty of Medicine and Health have changed and may continue to change and as such all references to a specific delegated role within the course resolutions have been changed to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations.

   The course resolutions refer to specific delegated roles at several locations and this proposal is to amend these to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations as per the attached document.

   The course resolutions for the Bachelor of Arts/Master of Nursing Section 6 Part 2 presently refer readers to the “school resolutions” in reference to English requirements and this proposal is to amend the reference as per the attached document for accuracy and to avoid confusion when interpreting the handbook.

4. Transitional arrangements
   The changes to admission requirements will have no impact on currently enrolled students and will take effect on 1 January 2020 for all commencing students.

5. Other relevant information

6. Signature of Dean
Bachelor of Arts/Master of Nursing

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the ‘Coursework Rule’), the Coursework Policy 2014, the Resolutions of the Faculty of Arts and Social Sciences and the University of Sydney Nursing School, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://www.sydney.edu.au/policies.

Course resolutions

1. Course codes

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<th>Code</th>
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</thead>
<tbody>
<tr>
<td>BPARTNUR-01</td>
<td>Bachelor of Arts/Master of Nursing</td>
</tr>
</tbody>
</table>

2. Attendance pattern

The attendance pattern for this course is full time or part time according to candidate choice.

3. Streams

(1) The Bachelor of Arts and Master of Nursing is available in the following streams:
   (a) Dalyell.
   (b) Completion of a stream is not a requirement of the Bachelor of Arts and the Master of Nursing. The requirements for the Dalyell Stream, in Table S of the Shared Pool for Undergraduate Degrees.

4. Master's type

The master's degree in these resolutions is a professional master's course, as defined by the Coursework Policy.

5. Cross faculty management

(1) Candidates will be under the general supervision of the University of Sydney Nursing School for the duration of the combined degree.
(2) The Deans relevant delegated authorities of the University of Sydney Nursing School and the Faculty of Arts and Social Sciences shall jointly exercise authority in any matter concerned with the combined course not otherwise dealt with in these resolutions.

6. Admission to candidature

(1) Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Admission standards set by regulatory bodies, accrediting agencies and government for teacher education must also be met. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission requirements are found in the Coursework Rule and Coursework Policy.
(2) English language requirements for this course are detailed in the Coursework Policy 2014 faculty resolutions.
(3) Applicants who have completed:
   (a) Units of study as part of an undergraduate bachelor's degree at the University of Sydney; or
   (b) Units of study as part of an undergraduate bachelor's degree (or Australian equivalent) at another tertiary institution are required to have met the progression rules outlined in clause 9(1).
(4) Where an applicant has not yet completed 48 credit points at the time of admission, the assessment will be based on completed study as the basis for admission and any units completed as part of this combined degree to the value or 48 credit points before the applicant can be granted entry to the Master of Nursing component of the degree.
(5) This course requires applicants to have the ability to undertake clinical placements. The Sydney Nursing School - Clinical Placement Provisions 2015 contains further details of the requirements.
(6) In addition, this course is not available to applicants who are registered to practise as a nurse in an Australian state or territory.
(7) Admission to the Dalyell stream requires achievement of a minimum tertiary admission rank (ATAR) set by the Board of Interdisciplinary Studies, or equivalent standard.

7. Requirements for award

(1) The units of study that may be taken for the Bachelor of Arts are set out in;
   (a) Table A for the Bachelor of Arts;
   (b) Table S from the Shared Pool for Undergraduate Degrees;
   (c) Table O from the Shared Pool for Undergraduate Degrees.
   In these resolutions, except where otherwise specified, Table A, Table S and Table O mean Table A, Table S and Table O as specified here.
(2) The units of study that may be taken for the Master of Nursing are set out in the Units of Study table for the Bachelor of Arts/Master of Nursing.
(3) Requirements for the Bachelor of Arts/Master of Nursing:
   To qualify for the award of the combined Bachelor of Arts/Master of Nursing, a candidate must complete a total of 192 credit points, including:
   (a) a major (48 credit points) from Table A;
   (b) 12 credit points of units from the Open Learning Environment as specified in Table O;
   (c) a minimum of 36 credit points of elective units or a minor (36 credit points) from Table A or Table S
   (d) if enrolled in a stream, complete the requirements for the stream as specified in Table S; and
   (e) 96 credit points of core units as specified in the Units of Study table for the Bachelor of Arts/Master of Nursing.
Bachelor of Arts/Master of Nursing

Candidates are required to attend clinical simulation and fieldwork as required for the Master of Nursing component. Where appropriate, the faculty may require individual candidates to undertake further or remedial theoretical, clinical or practical study in addition to the above requirements.

(4) Requirements for the Bachelor of Arts:
To qualify for the award of the Bachelor of Arts, a candidate must complete 144 credit points, comprising:
(a) 96 credit points specified in ZKS (3) (a)-(d) above; and
(b) 48 credit points of units as specified for years 2 and 3 from the Units of Study Table for the Bachelor of Arts/Master of Nursing which shall take the place of the compulsory minor specified in the resolutions for the Bachelor of Arts.

(5) Requirements for the Master of Nursing:
To qualify for the award of the Master of Nursing, a candidate must complete 96 credit points as specified in the Units of Study Table for the Bachelor of Arts/Master of Nursing of which 48 credit points are completed in years 2 and 3 of the degree.

8. Majors and Programs
(1) Completion of a major from Table A is a requirement for this combined degree.

9. Progression rules
(1) Candidates are required to successfully complete 48 credit points of 1000-level units in the first year (or part time equivalent) with a weighted average mark of at least 65 including credit granted from previous study to remain in the combined degree program and commence Master of Nursing units of study. Candidates who do not achieve this mark may not continue in the program; however, they may elect to transfer to the single Bachelor of Arts degree.

(2) Candidates may not commence Master of Nursing units of study until satisfactorily completing 48 credit points in the Bachelor of Arts component as specified in clause 7 (4). The Bachelor of Arts as specified in clause 7 (3) component must be completed before commencing 6000-level Master of Nursing units in the fourth and final year (or part-time equivalent) of the combined degree.

(3) All candidates must successfully complete all Year One Master of Nursing (5000 level) units of study before progressing to Year Two (6000 level) Master of Nursing units of study.

(4) In exceptional circumstances a candidate may be allowed to progress to the next stage with approval by the relevant delegated authority.

(5) Except with the permission of the relevant major or minor coordinator, candidates must pass all 1000-level units of study within a major, before proceeding to 2000-level units within that major or minor, or else undertake those 2000-level units concurrently with the 2000-level units. Except with the permission of the relevant major coordinator, candidates must pass all 2000-level units of study within a major, before proceeding to 3000-level units, or else undertake those 3000-level units concurrently with the 3000-level units.

(6) Candidates in the Dalryll Stream must achieve an annual average mark at a level determined by the Board of Interdisciplinary Studies in each year of study or over each 48 credit-point block to continue in the Dalryll Stream. Candidates who do not maintain an annual average mark at the level determined by the Board of Interdisciplinary Studies will not remain in the Dalryll Stream.

(7) With the permission of the Dalryll coordinator in the Faculty of Arts and Social Science, candidates in the Dalryll Stream may attempt units at higher levels than the usual sequence through a major or minor within the Bachelor of Arts.

10. Requirements for the award with Honours
(1) Honours in an area of study within the Bachelor of Arts is available to meritorious candidates by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component after completion of requirements for the Bachelor of Arts and Master of Nursing combined degree.

(2) For candidates completing the Bachelor of Arts and Master of Nursing and also completing an embedded honours component in the Bachelor of Advanced Studies, the requirement in the Bachelor of Advanced Studies for completion of a second major or equivalent shall be deemed to have been met by completion of the 48 credit points of units of study from the Units of Study Table for the Bachelor of Arts/Master of Nursing specified in clause ZKS (3) (e).

11. Award of the degree
(1) Candidates will be awarded a separate testamur for each degree completed.

(2) The Bachelor of Arts is awarded at pass level. Honours in Arts is taken by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component.

(3) Candidates who attempt the Bachelor of Arts with an embedded honours component in the Bachelor of Advanced Studies who do not meet the requirements for honours but who meet the requirement for the pass degree, may be awarded the relevant degree or combined degree at pass level for which they fulfill requirements.

(4) The Master of Nursing is awarded at the Pass level only.

12. Time limits
(1) A full time candidate must complete all the requirements for the combined pass degree within six calendar years of first enrolment, including periods of suspension.

(2) A part time candidate must complete all the requirements for the combined pass degree within eight calendar years of first enrolment, including periods of suspension.

13. Course transfer
(1) A candidate may abandon the combined degree program and elect to complete the Bachelor of Arts in accordance with the resolutions governing that degree at the time of transfer. Completion of the Master of Nursing in the future will require a new application for admission to candidature for that course and completion in accordance with the resolutions governing that degree.

14. Credit for previous study
(1) Credit awarded for previous study at another institution will not exceed 24 credit points and credit awarded for previous study at the University of Sydney will not exceed 96 credit points. Credit will not be awarded for clinical nursing units.

(2) Credit for nursing units of study will not be granted for recognised prior learning older than five years at the time of first enrolment.

15. Transitional provisions
(1) Credit for nursing units of study will not be granted for recognised prior learning older than five years at the time of first enrolment.

(2) Candidates who commence candidature after 1 January, 2018 who are seeking credit for prior study should note that the University does not undertake to offer 3000 level units in the Bachelor of Arts prior to 2020 and that it may not be possible to complete requirements for the Bachelor of Arts degree before the end of Semester 2 of that year. Where a student in the Bachelor of Arts proceeding under these resolutions applies for and is granted credit and wishes to complete the degree before 1 January 2020, the student will be offered the opportunity to complete the combined degree in a sequence that matches the availability of units in line with these resolutions.

(3) Candidates who commenced prior to 1 January, 2018 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2027.

(4) These resolutions apply to students who commenced their candidature after January 1, 2010.
Minor Course Amendment Proposal

Faculty: Faculty of Medicine and Health – Susan Wakil School of Nursing and Midwifery

Contact person: Stuart Skene or Jenny Green

1. Name of award course
   BPNURAD-01 Bachelor of Nursing (Advanced Studies)

2. Purpose of proposal
   The purpose of this proposal is to advise the Undergraduate Studies committee of changes to the course resolutions of the Bachelor of Nursing (Advanced Studies) from 2020.

3. Details of amendment
   In 2018, the Sydney Nursing School joined multiple schools to form the Faculty of Medicine and Health. In 2019, the Faculty of Medicine and Health published a single handbook however, consolidated the individual school resolutions into a sub directory of the faculty resolutions. In 2020, those sub categories of resolutions will be published as a single set of faculty resolutions. These new faculty resolutions will remove reference to English requirements that guided the Sydney Nursing School courses and as such, the resolutions are being moved to the course resolutions. Further, the delegations within the Faculty of Medicine and Health have changed and may continue to change and as such all references to a specific delegated role within the course resolutions have been changed to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations.

   The course resolutions refer to specific delegated roles at several locations and this proposal is to amend these to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations as per the attached document.

   The course resolutions for the Bachelor of Nursing (Advanced Studies) Section 3 part 2 presently refer readers to the “school resolutions” in reference to English requirements and this proposal is to amend the reference as per the attached document for accuracy and to avoid confusion when interpreting the handbook.

4. Transitional arrangements
   The changes to admission requirements will have no impact on currently enrolled students and will take effect on 1 January 2020 for all commencing students.

5. Other relevant information

6. Signature of Dean
Bachelor of Nursing (Advanced Studies)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the 'Coursework Rule'), the Coursework Policy 2014, the Resolutions of the School, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions
1. Course codes

<table>
<thead>
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<th>Code</th>
<th>Course title</th>
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<tbody>
<tr>
<td>BPNURADS-01</td>
<td>Bachelor of Nursing (Advanced Studies)</td>
</tr>
</tbody>
</table>

2. Attendance pattern
   - The attendance pattern for this course is full time or part time according to candidate choice.

3. Admission to candidature
   (1) Admission to undergraduate courses at the University of Sydney is competitive on the bases of completion of secondary study via the NSW Higher School Certificate, leading to the award of an Australian Tertiary Admission Ranking (ATAR) or equivalent (and subject to special provisions as set out in the Coursework Rule), or on the basis of Mature Age Admission as set out in the Admissions chapter of the Coursework Rule.
   (2) English language requirements for this course are detailed in the Coursework Policy 2014 school-resolutions.
   (3) This course requires applicants to have the ability to undertake clinical placements. The school's Clinical Policy contains further details of the requirements.
   (4) In addition, this course is not available to applicants who are registered to practice as a nurse in Australia or in New Zealand.

4. Requirements for award
   (1) The units of study that may be taken for the course are set out in the units of study table for the Bachelor of Nursing (Advanced Studies).
      (a) To qualify for the award of the Bachelor of Nursing (Advanced Studies) degree candidates must complete a minimum of 144 credit points, including all of the units of study set out in the table and any prescribed clinical experience.
      (b) Candidates are required to attend clinical simulation and fieldwork as required. Where appropriate, the School Faculty may require individual candidates to undertake further or remedial theoretical, clinical or practical study in addition to the above requirements.
   (2) Clinical requirements are stipulated in the School's Clinical Policy.

5. Progression
   (1) All candidates enrolled in the Bachelor of Nursing (Advanced Studies) must successfully complete a minimum of 36 credits points of Year One Bachelor of Nursing (Advanced Studies) units of study before progressing to Year Two Bachelor of Nursing (Advanced Studies) units of study as prescribed in the unit of study table for this degree.
   (2) Candidates may be permitted to enrol in some Year Two units of study while also enrolled in Year One units of study in the Bachelor of Nursing (Advanced Studies) providing the requested units are available in the required semester and the pre-requisites and/or co-requisites have been met.
   (3) All candidates enrolled in the Bachelor of Nursing (Advanced Studies) must successfully complete all Year One Bachelor of Nursing (Advanced Studies) units of study and a minimum of 36 credits points of Year Two Bachelor of Nursing (Advanced Studies) units of study before progressing to Year Three Bachelor of Nursing (Advanced Studies) units of study as prescribed in the unit of study table for this degree.
   (4) Candidates may be permitted to enrol in Year Three units of study while also enrolled in Year Two units of study in the Bachelor of Nursing (Advanced Studies) providing the requested units are available in the required semester and the pre-requisites and/or co-requisites have been met.
   (5) In exceptional circumstances a candidate may be allowed to progress to the next stage with approval from the Dean relevant delegated authority of the University of Sydney Nursing School Faculty of Medicine and Health.

6. Requirements for the Honours degree
   Admission, requirements and award of Honours are according to the Resolutions of the Bachelor of Nursing (Honours).

7. Award of the degree
   The Bachelor of Nursing (Advanced Studies) is awarded in one grade: Pass.

8. Time limits
   A candidate for the Bachelor of Nursing (Advanced Studies) must complete all of the course requirements within 10 calendar years.

9. Credit for previous study
   (1) Credit awarded for previous study at the University of Sydney or at another institution will not exceed 24 credit points.
   (2) Credit for nursing units of study will not be granted for recognised previous study older than five years at the time of first enrolment.

10. Transitional provisions
    (1) These resolutions apply to students who commenced their candidature after 1 January 2016 and students who commenced their candidature prior to 1 January 2016 who elect to proceed under these resolutions.
Minor Course Amendment Proposal

Faculty: Faculty of Medicine and Health – Susan Wakil School of Nursing and Midwifery

Contact person: Stuart Skene or Jenny Green

1. Name of award course
   - BHNURSIH-02 Bachelor of Nursing (Honours)
   - BHNURSIH-03 Bachelor of Nursing (Honours) (off-shore)

2. Purpose of proposal
   The purpose of this proposal is to advise the Undergraduate Studies committee of changes to the course resolutions of the Bachelor of Nursing (Honours) from 2020.

3. Details of amendment
   In 2018, the Sydney Nursing School joined multiple schools to form the Faculty of Medicine and Health. In 2019, the Faculty of Medicine and Health published a single handbook however, consolidated the individual school resolutions into a sub directory of the faculty resolutions. In 2020, those sub categories of resolutions will be published as a single set of faculty resolutions. These new faculty resolutions will remove reference to English requirements that guided the Sydney Nursing School courses and as such, the resolutions are being moved to the course resolutions. Further, the delegations within the Faculty of Medicine and Health have changed and may continue to change and as such all references to a specific delegated role within the course resolutions have been changed to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations.

   The course resolutions refer to specific delegated roles at several locations and this proposal is to amend these to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations as per the attached document.

   The course resolutions for the Bachelor of Nursing (Honours) Section 2 part 2 (a) presently refer readers to the “school resolutions” in reference to English requirements and this proposal is to amend the reference as per the attached document for accuracy and to avoid confusion when interpreting the handbook.

   The course resolutions for the Bachelor of Nursing (Honours) Section 3 part 1 (a) have been updated to reflect the changes within Faculty of Medicine and Health role titles and to remove a superseded administrative directive that no longer applies within the Faculty of Medicine and Health. Please see the attachment for this changes.

4. Transitional arrangements
   The changes to admission requirements will have no impact on currently enrolled students and will take effect on 1 January 2020 for all commencing students.

5. Other relevant information

6. Signature of Dean
Bachelor of Nursing (Honours)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the 'Coursework Rule'), the Coursework Policy 2014, the Resolutions of the School, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1. Course codes

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<thead>
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<th>Code</th>
<th>Course title</th>
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<tr>
<td>BHNURSIH-02</td>
<td>Bachelor of Nursing (Honours)</td>
</tr>
<tr>
<td>BHNURSIH-03</td>
<td>Bachelor of Nursing (Honours) (off-shore)</td>
</tr>
</tbody>
</table>

2. Admission to candidature

(1) Admission to candidature is dependent on appropriate supervision being available within the Faculty. Places will be offered to qualified applicants in the order in which complete applications are received, according to the following admission criteria.

(2) Admission to the Bachelor of Nursing (Honours) requires:

(a) satisfaction of the English language proficiency requirements detailed in the Coursework Policy 2014; and

(b) completion of a Bachelor of Nursing pass degree at the University of Sydney or equivalent qualification with a minimum WAM of 65; and

(c) current registration to practise nursing in Australia or another country.

(3) Qualifications used as the basis of admission must have been completed less than ten years prior to application. Qualifications older than ten years will be considered subject to the applicant providing further information substantiating appropriate continuing education and development. In these cases, admission will be at the discretion of the Dean.

3. Candidature

(1) Appointment of supervisor

(a) The Chair of the Honours Degrees Sub-Committee will appoint a research supervisor in consultation with the Associate Dean (Academic Lead Education) and notification to the Deputy Head of School.

(2) Attendance pattern

(a) The attendance pattern for this course can be full time or part time according to candidate choice.

4. Requirements for award

(1) To qualify for the award of the Bachelor of Nursing (Honours) degree candidates must complete:

(a) 24 credit points of units of study as specified in the unit of study table; and

(b) a thesis of up to 15,000 words.

(2) The grade of honours and the honours mark are determined by performance in the degree, according to the table in clause 7(1).

5. Enrolment and progression

(1) Candidate progression will be reviewed every six (6) months with the supervisor, as per assessment schedule.

(2) Documentation of the candidate's progression will be reviewed by the Honours Degrees Sub-Committee, and feedback will be provided to the candidate and supervisors about level of progress.

(3) Time limits:

(a) A full-time candidate must complete all the requirements for the course within two (2) calendar years of first enrolment.

(b) A part-time candidate must complete all the requirements for the course within three (3) years of first enrolment.

6. Examination of the thesis

(1) Two examiners internal to the University will be appointed by the Honours Degrees Sub-Committee in consultation with the supervisor.

(2) The Honours Degrees Sub-Committee determines the award mark taking into account the reports of the examiners. The Sub-Committee may appoint a third examiner (who may be external to the University) to assist in determining the award mark. The final estimation of the award mark is determined according to the table in 7(1).

7. Award of the degree

(1) The Bachelor of Nursing (Honours) is awarded in the following classes ranging from First Class to Third Class:

<table>
<thead>
<tr>
<th>A student who achieves an honours mark in the range</th>
<th>Will be awarded honours</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 &lt; honours mark &lt; 100</td>
<td>Class I</td>
</tr>
<tr>
<td>75 &lt; honours mark &lt; 80</td>
<td>Class II / Division 1</td>
</tr>
<tr>
<td>70 &lt; honours mark &lt; 75</td>
<td>Class II / Division 2</td>
</tr>
<tr>
<td>65 &lt; honours mark &lt; 70</td>
<td>Third Class</td>
</tr>
</tbody>
</table>

(2) The class of Honours shall be determined by the marks achieved in the Honours year weighted according to units of study as follows: NURS4025 (10 percent), NURS4026 (10 percent), and NURS4022 and NURS4023 (80 percent).
University medal

A student who receives an honours mark of 90 or above may be awarded a university medal. The medal is awarded at the discretion of the School Faculty to the highest achieving students who in the opinion of the School Faculty have an outstanding academic record, in accordance with the Coursework Policy 2014.

Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2018 and students who commenced their candidature prior to 1 January, 2018 who elect to proceed under these resolutions.

(2) Candidates who commenced their candidature prior to 1 January, 2018 may complete the requirements in accordance with the resolutions in force at the time, provided they complete requirements within the maximum period of candidature specified in those resolutions. The School Faculty may specify a later date for completion or specify alternative requirements for completion for students whose candidatures extend beyond the maximum period of candidature specified in the resolutions under which they were enrolled.
### Minor Course Amendment Proposal

**Faculty:** Faculty of Medicine and Health – Susan Wakil School of Nursing and Midwifery

**Contact person:** Stuart Skene or Jenny Green

1. **Name of award course**
   
   BPSCINUR-01 Bachelor of Science/Master of Nursing

2. **Purpose of proposal**
   
   The purpose of this proposal is to advise the Undergraduate Studies committee of changes to the course resolutions of the Bachelor of Science (Health)/Master of Nursing from 2020.

3. **Details of amendment**
   
   In 2018, the Sydney Nursing School joined multiple schools to form the Faculty of Medicine and Health. In 2019, the Faculty of Medicine and Health published a single handbook however, consolidated the individual school resolutions into a sub directory of the faculty resolutions. In 2020, those sub categories of resolutions will be published as a single set of faculty resolutions. These new faculty resolutions will remove reference to English requirements that guided the Sydney Nursing School courses and as such, the resolutions are being moved to the course resolutions. Further, the delegations within the Faculty of Medicine and Health have changed and may continue to change and as such all references to a specific delegated role within the course resolutions have been changed to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations.

   The course resolutions refer to specific delegated roles at several locations and this proposal is to amend these to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations as per the attached document.

   The course resolutions for the Bachelor of Science (Health)/Master of Nursing Section 6 Part 2 presently refer readers to the “school resolutions” in reference to English requirements and this proposal is to amend the reference as per the attached document for accuracy and to avoid confusion when interpreting the handbook.

4. **Transitional arrangements**
   
   The changes to admission requirements will have no impact on currently enrolled students and will take effect on 1 January 2020 for all commencing students.

5. **Other relevant information**

6. **Signature of Dean**
Bachelor of Science/Master of Nursing

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the 'Coursework Rule'), the Coursework Policy 2014, the Resolutions of the Faculty of Science and the University of Sydney Nursing School, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://www.sydney.edu.au/policies.

Course resolutions

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<td>BPSCINUR-01</td>
<td>Bachelor of Science/Master of Nursing</td>
</tr>
</tbody>
</table>

2. Attendance pattern
   - The attendance pattern for this course is full time or part time according to candidate choice.

3. Streams
   - The Bachelor of Science and Master of Nursing is available in the following streams:
     (a) Dalyell
     (b) Health
   - The requirements for the completion of each stream are as specified in Table A for the Bachelor of Science or, in the case of the Dalyell Stream, in Table S of the Shared Pool for Undergraduate Degrees. Completion of a stream is not a requirement of the Bachelor of Science and Master of Nursing.

4. Master's type
   - The master's degree in these resolutions is a professional master's course, as defined by the Coursework Policy.

5. Cross faculty management
   - Candidates will be under the general supervision of the University of Sydney Nursing School for the duration of the combined degree.
   - The relevant delegated authorities of the University of Sydney Nursing School and the Faculty of Science shall jointly exercise authority in any matter concerned with the combined course not otherwise dealt with in these resolutions.

6. Admission to candidature
   - Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Admission standards set by regulatory bodies, accrediting agencies and government for nurse registration must also be met. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission requirements are found in the Coursework Rule and Coursework Policy.
   - English language requirements for this course are detailed in the Coursework Policy 2014 Sydney Nursing School Faculty Resolutions.
   - Applicants who have completed:
     (a) Units of study as part of an undergraduate bachelor's degree at the University of Sydney; or
     (b) Units of study as part of an undergraduate bachelor's degree (or Australian equivalent) at another tertiary institution are required to have met the progression rules outlined in clause 9(1).
   - Where an applicant has not yet completed 48 credit points at time of admission, the assessment will be based on completed study as the basis for admission and any units completed as part of this combined degree to the value of 48 credit points before the applicant can be granted entry to the Master of Nursing component of the degree.
   - This course requires applicants to have the ability to undertake clinical placements. The Sydney Nursing School - Clinical Placement Provisions 2015 contain further details of the requirements.
   - In addition, this course is not available to applicants who are registered to practise as a nurse in an Australian state or territory.
   - Admission to the Dalyell stream requires achievement of a minimum tertiary admission rank (ATAR) set by the Board of Interdisciplinary Studies or above in an equivalent standard.

7. Requirements for award
   - The units of study that may be taken for the Bachelor of Science are: set out in:
     (a) Table A for the Bachelor of Science;
     (b) Table S from the Shared Pool for Undergraduate Degrees
     (c) Table O from the Shared Pool for Undergraduate Degrees
     (d) In these resolutions, except where otherwise specified, Table A, Table S and Table O mean Table A, Table S and Table O as specified here.
   - The units of study that may be taken for the Master of Nursing are set out in the Units of Study table for the Bachelor of Science/Master of Nursing.
   - To qualify for the award of the combined Bachelor of Science/Master of Nursing, a candidate must complete a total of 192 credit points, including:
     (a) Degree core: 12 credit points of Mathematics degree core units of study as set out in Table A and 12 credit points of 1000-level science elective units of study (excluding units listed as Mathematics degree core) as set out in Table A (students may count the units from their major to fulfill part of this requirement);
Bachelor of Science/Master of Nursing

(a) a major (48 credit points) from Table A; 
(b) 12 credit points from the Open Learning Environment as specified in Table O; 
(c) 12 credit points of elective units from Table A or Table S or units taken from the Dalyell stream; 
(d) if the candidate is enrolled in the Dalyell or Health stream, complete the requirements for the stream as specified in Table A or Table S; and 
(e) 96 credit points of core units as specified in the Units of Study table for the Bachelor of Science/Master of Nursing.

(4) Candidates are required to attend clinical simulation and fieldwork as required for the Master of Nursing component. Where appropriate, the faculty may require individual candidates to undertake further or remedial theoretical, clinical or practical study in addition to the above requirements.

(5) Requirements for the Bachelor of Science 
To qualify for the award of the Bachelor of Science, a candidate must complete 144 credit points, comprising: 
(a) 96 credit points specified in 7(3)(a) – (e) above; and 
(b) 48 credit points of units as specified for years 2 and 3 from the Units of Study Table for the Bachelor of Science/Master of Nursing which shall take the place of the compulsory minor specified in the resolutions for the Bachelor of Science.

(6) Requirements for the Master of Nursing 
To qualify for the award of the Master of Nursing, a candidate must complete 96 credit points as specified in the Units of Study table for the Bachelor of Science/Master of Nursing of which 48 credit points are completed in years 2 and 3 of the degree.

8. Majors and Programs 
(1) Completion of a major from Table A is a requirement for this combined degree.

9. Progression rules 
(1) Candidates are required to successfully complete 48 credit points at 1000-level in the first year (or part time equivalent) with a weighted average mark of at least 65 including credit granted from previous study to remain in the combined degree program and commence Master of Nursing units of study. Candidates who do not achieve this mark may not continue in the combined degree and will be transferred to the single Bachelor of Science degree.

(2) Candidates may not commence Master of Nursing units of study until satisfactorily completing 48 credits points in the Bachelor of Science component as specified clause 7(5). The Bachelor of Science component as specified in clause 7(5) must be completed before commencing 6000-level Master of Nursing units in the fourth and final year of the combined degree (part-time equivalent).

(3) All candidates must successfully complete all Year One Master of Nursing (5000 level) units of study before progressing to Year Two Master of Nursing units of study.

(4) In exceptional circumstances a candidate may be allowed to progress to the next stage with approval by the relevant delegated authority of the University of Sydney Nursing School.

(5) Progression within the Dalyell Stream 
(a) With the permission of the Dalyell coordinator, candidates in the Dalyell Stream may attempt units at higher levels than the usual sequence within the Bachelor of Science.
(b) Candidates who do not achieve the required annual mark average for progression within the Dalyell Stream may continue in any other stream they were admitted but will not remain in the Dalyell stream.

10. Requirements for the award with Honours 
(1) Honours in an area of study within the Bachelor of Science is available to meritorious candidates by enrolling in the Bachelor of Advanced Studies and completing an embeddedhonours component after completion of requirements for the Bachelor of Science and Master of Science/Master of Nursing.

(2) For candidates completing the Bachelor of Science and Master of Nursing and also completing an embedded honours component in the Bachelor of Advanced Studies, the requirement in the Bachelor of Advanced Studies for completion of a second major or equivalent shall be deemed to have been met by completion of the 48 credit points of units of study from the Units of Study table for the Bachelor of Science/Master of Nursing specified in clause 7(3).

11. Award of the degree 
(1) Candidates will be awarded a separate testamur for each degree completed.

(2) The Bachelor of Science is awarded at pass level. Honours in Science is taken by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component.

(3) Candidates who attempt the Bachelor of Science with an embedded honours component in the Bachelor of Advanced Studies who do not meet the requirements for honours but who meet the requirement for the pass degree, may be awarded the relevant degree or combined degree at pass level for which they fulfil requirements.

(4) The Master of Nursing is awarded at the Pass level only.

12. Time limits 
(1) A full time candidate must complete all the requirements for the combined pass degree within six calendar years of first enrolment, including periods of suspension.

(2) A part time candidate must complete all the requirements for the combined pass degree within eight calendar years of first enrolment, including periods of suspension.

13. Course transfer 
(1) A candidate may abandon the Bachelor of Science and Master of Nursing combined degree program and elect to complete the Bachelor of Science in accordance with the resolutions governing that degree at the time of transfer.

(2) Completion of the Master of Nursing in the future will require a new application for admission to candidature for that course and completion in accordance with the resolutions governing that degree.

(3) A candidate who has enrolled in the Bachelor of Advanced Studies to complete requirements of honours or a stream may, with the permission of the Faculty of Science and the University of Sydney Nursing School, abandon the Bachelor of Advanced Studies and exit with the Bachelor of Science and Master of Nursing.

14. Credit for previous study 
(1) Credit awarded for previous study at another institution will not exceed 24 credit points and credit awarded for previous study at the University of Sydney will not exceed 96 credit points.

(2) Credit for nursing units of study will not be granted for recognized prior learning older than five years at the time of first enrolment. Credit will not be granted for clinical nursing units.

15. Transitional provisions 
(1) These resolutions apply to students who commenced their candidature after 1 January, 2018 who are not seeking credit for prior study and students who commenced their candidature prior to 1 January, 2018 who elect to proceed under these resolutions. Students who commenced their candidature prior to 1 January 2018 who elect to transfer and proceed under these resolutions should note that the University does not undertake to offer 3000 level units of study prior to 2019 and that it may not be possible to complete requirements for the Bachelor of Science degree before the end of Semester 2 of that year or the single degree before the end of Semester 2 2019.
(2) Candidates who commence candidature after 1 January, 2018 who are seeking credit for prior study should note that the University does not undertake to offer 2000 and 3000 level units of study prior to 2019 and that it may not be possible to complete requirements for the Bachelor of Science degree before the end of Semester 2 of that year. Where a student in the Bachelor of Science proceeding under these resolutions applies for and is granted credit and wishes to complete the degree before 1 January 2020, the student will be offered the opportunity to complete the Bachelor of Science degree under the resolutions that applied at 1 January 2017.

(3) Candidates who commenced prior to 1 January, 2018 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2027.
Minor Course Amendment Proposal

Faculty: Faculty of Medicine and Health – Susan Wakil School of Nursing and Midwifery

Contact person: Stuart Skene or Jenny Green

1. Name of award course

   BPSCINUR-01 Bachelor of Science/Master of Nursing

2. Purpose of proposal

   The purpose of this proposal is to advise the Undergraduate Studies committee of changes to the course resolutions of the Bachelor of Science/Master of Nursing from 2020.

3. Details of amendment

   In 2018, the Sydney Nursing School joined multiple schools to form the Faculty of Medicine and Health. In 2019, the Faculty of Medicine and Health published a single handbook however, consolidated the individual school resolutions into a sub directory of the faculty resolutions. In 2020, those sub categories of resolutions will be published as a single set of faculty resolutions. These new faculty resolutions will remove reference to English requirements that guided the Sydney Nursing School courses and as such, the resolutions are being moved to the course resolutions. Further, the delegations within the Faculty of Medicine and Health have changed and may continue to change and as such all references to a specific delegated role within the course resolutions have been changed to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations.

   The course resolutions refer to specific delegated roles at several locations and this proposal is to amend these to “relevant delegated authority” for the singular usage or “relevant delegated authorities” for the plural usage, so as to better reflect the current delegations as per the attached document.

   The course resolutions for the Bachelor of Science/Master of Nursing Section 6 Part 2 presently refer readers to the “school resolutions” in reference to English requirements and this proposal is to amend the reference as per the attached document for accuracy and to avoid confusion when interpreting the handbook.

4. Transitional arrangements

   The changes to admission requirements will have no impact on currently enrolled students and will take effect on 1 January 2020 for all commencing students.

5. Other relevant information

6. Signature of Dean
Bachelor of Science/Master of Nursing

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the "Coursework Rule"), the Coursework Policy 2014, the Resolutions of the Faculty of Science and the University of Sydney Nursing School, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://www.sydney.edu.au/policies.

Course resolutions

1. Course codes

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<tr>
<td>BPSCINUR-01</td>
<td>Bachelor of Science/Master of Nursing</td>
</tr>
</tbody>
</table>

2. Attendance pattern

The attendance pattern for this course is full time or part time according to candidate choice.

3. Streams

(1) The Bachelor of Science and Master of Nursing is available in the following streams:
(a) Dalyell
(b) Health
(2) The requirements for the completion of each stream are as specified in Table A for the Bachelor of Science or, in the case of the Dalyell Stream, in Table S of the Shared Pool for Undergraduate Degrees. Completion of a stream is not a requirement of the Bachelor of Science and Master of Nursing.

4. Master's type

The master's degree in these resolutions is a professional master's course, as defined by the Coursework Policy.

5. Cross faculty management

(1) Candidates will be under the general supervision of the University of Sydney Nursing School for the duration of the combined degree.
(2) The relevant delegated authorities of the University of Sydney Nursing School and the Faculty of Science shall jointly exercise authority in any matter concerned with the combined course not otherwise dealt with in these resolutions.

6. Admission to candidature

(1) Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Admission standards set by regulatory bodies, accrediting agencies and government for nurse registration must also be met. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission requirements are found in the Coursework Rule and Coursework Policy.
(2) English language requirements for this course are detailed in the Coursework Policy 2014 Sydney Nursing School Faculty Resolutions.
(3) Applicants who have completed:
(a) Units of study as part of an undergraduate bachelor's degree at the University of Sydney; or
(b) Units of study as part of an undergraduate bachelor's degree (or Australian equivalent) at another tertiary institution are required to have met the progression rules outlined in clause 9(1).
(4) Where an applicant has not yet completed 48 credit points at time of admission, the assessment will be based on completed study as the basis for admission and any units completed as part of this combined degree to the value of 48 credit points before the applicant can be granted entry to the Master of Nursing component of the degree.
(5) This course requires applicants to have the ability to undertake clinical placements. The Sydney Nursing School - Clinical Placement Provisions 2015 contain further details of the requirements.
(6) In addition, this course is not available to applicants who are registered to practise as a nurse in an Australian state or territory.
(7) Admission to the Dalyell stream requires achievement of a minimum tertiary admission rank (ATAR) set by the Board of Interdisciplinary Studies or above in an equivalent standard.

7. Requirements for award

(1) The units of study that may be taken for the Bachelor of Science are: set out in:
(a) Table A for the Bachelor of Science;
(b) Table S from the Shared Pool for Undergraduate Degrees
(c) Table O from the Shared Pool for Undergraduate Degrees
(d) In these resolutions, except where otherwise specified, Table A, Table S and Table O mean Table A, Table S and Table O as specified here.
(2) The units of study that may be taken for the Master of Nursing are set out in the Units of Study table for the Bachelor of Science/Master of Nursing.
(3) Requirements for the Bachelor of Science/Master of Nursing

To qualify for the award of the combined Bachelor of Science/Master of Nursing, a candidate must complete a total of 192 credit points, including:
(a) Degree core: 12 credit points of Mathematics degree core units of study as set out in Table A and 12 credit points of 1000-level science elective units of study (excluding units listed as Mathematics degree core) as set out in Table A (students may count the units from their major to fulfill part of this requirement);
Item 4.4 FMH - UG Programs

Bachelor of Science/Master of Nursing

(b) a major (48 credit points) from Table A;
(c) 12 credit points from the Open Learning Environment as specified in Table O;
(d) 12 credit points of elective units from Table A or Table S or units taken from the Dalyell stream;
(e) if the candidate is enrolled in the Dalyell or Health stream, complete the requirements for the stream as specified in Table A or Table S; and
(f) 96 credit points of core units as specified in the Units of Study table for the Bachelor of Science/Master of Nursing.

(4) Candidates are required to attend clinical simulation and fieldwork as required for the Master of Nursing component. Where appropriate, the faculty may require individual candidates to undertake further or remedial theoretical, clinical or practical study in addition to the above requirements.

(5) Requirements for the Bachelor of Science

To qualify for the award of the Bachelor of Science, a candidate must complete 144 credit points, comprising:

(a) 96 credit points specified in 7(3) (a) – (e) above; and
(b) 48 credit points of units specified for years 2 and 3 from the Units of Study Table for the Bachelor of Science/Master of Nursing which shall take the place of the compulsory minor specified in the resolutions for the Bachelor of Science.

(6) Requirements for the Master of Nursing

To qualify for the award of the Master of Nursing, a candidate must complete 96 credit points as specified in the Units of Study Table for the Bachelor of Science/Master of Nursing of which 48 credit points are completed in years 2 and 3 of the degree.

8. Majors and Programs

(1) Completion of a major from Table A is a requirement for this combined degree.

9. Progression rules

(1) Candidates are required to successfully complete 48 credit points at 1000-level in the first year (or part time equivalent) with a weighted average mark of at least 65 including credit granted from previous study to remain in the combined degree program and commence Master of Nursing units of study. Candidates who do not achieve this mark may not continue in the combined degree and will be transferred to the single Bachelor of Science degree.

(2) Candidates may not commence Master of Nursing units of study until satisfactorily completing 48 credits points in the Bachelor of Science component as specified clause 7(5). The Bachelor of Science component as specified in clause 7(5) must be completed before commencing 6000-level Master of Nursing units in the fourth and final year of the combined degree (or part-time equivalent).

(3) All candidates must successfully complete all Year One Master of Nursing (5000 level) units of study before progressing to Year Two of Master of Nursing units of study.

(4) In exceptional circumstances a candidate may be allowed to progress to the next stage with approval by the relevant delegated authority of the University of Sydney Nursing School.

(5) Progression within the Dalyell Stream

(a) With the permission of the Dalyell coordinator, candidates in the Dalyell Stream may attempt units at higher levels than the usual sequence within the Bachelor of Science.

(b) Candidates who do not achieve the required annual average mark for progression within the Dalyell Stream may continue in any other stream they were admitted but will not remain in the Dalyell stream.

10. Requirements for the award with Honours

(1) Honours in an area of study within the Bachelor of Science is available to meritorious candidates by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component after completion of requirements for the Bachelor of Science and Master of Nursing combined degree.

(2) For candidates completing the Bachelor of Science and Master of Nursing and also completing an embedded honours component in the Bachelor of Advanced Studies, the requirement in the Bachelor of Advanced Studies for completion of a second major or equivalent shall be deemed to have been met by completion of the 48 credit points of units of study from the Units of Study table for the Bachelor of Science/Master of Nursing specified in clause 7(3).

11. Award of the degree

(1) Candidates will be awarded a separate testamur for each degree completed.

(2) The Bachelor of Science is awarded at pass level. Honours in Science is taken by enrolling in the Bachelor of Advanced Studies and completing an embedded honours component.

(3) Candidates who attempt the Bachelor of Science with an embedded honours component in the Bachelor of Advanced Studies who do not meet the requirements for honours but who meet the requirement for the pass degree, may be awarded the relevant degree or combined degree at pass level for which they fulfil requirements.

(4) The Master of Nursing is awarded at the Pass level only.

12. Time limits

(1) A full time candidate must complete all the requirements for the combined pass degree within six calendar years of first enrolment, including periods of suspension.

(2) A part time candidate must complete all the requirements for the combined pass degree within eight calendar years of first enrolment, including periods of suspension.

13. Course transfer

(1) A candidate may abandon the Bachelor of Science and Master of Nursing combined degree program and elect to complete the Bachelor of Science in accordance with the resolutions governing that degree at the time of transfer.

(2) Completion of the Master of Nursing in the future will require a new application for admission to candidature for that course and completion in accordance with the resolutions governing that degree.

(3) A candidate who has enrolled in the Bachelor of Advanced Studies to complete requirements of honours or a stream may, with the permission of the Faculty of Science and the University of Sydney Nursing School, abandon the Bachelor of Advanced Studies and exit with the Bachelor of Science and Master of Nursing.

14. Credit for previous study

(1) Credit awarded for previous study at another institution will not exceed 24 credit points and credit awarded for previous study at the University of Sydney will not exceed 96 credit points.

(2) Credit for nursing units of study will not be granted for recognised prior learning older than five years at the time of first enrolment. Credit will not be granted for clinical nursing units.

15. Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2018 who are not seeking credit for prior study and students who commenced their candidature prior to 1 January, 2018 who elect to proceed under these resolutions. Students who commenced their candidature prior to 1 January 2018 who elect to transfer and proceed under these resolutions should note that the University does not undertake to offer 3000 level units of study prior to 2019 and that it may not be possible to complete requirements for the Bachelor of Science degree before the end of Semester 2 of that year or the single degree before the end of Semester 2 2019.
Candidates who commence candidature after 1 January, 2018 who are seeking credit for prior study should note that the University does not undertake to offer 2000 and 3000 level units of study prior to 2019 and that it may not be possible to complete requirements for the Bachelor of Science degree before the end of Semester 2 of that year. Where a student in the Bachelor of Science proceeding under these resolutions applies for and is granted credit and wishes to complete the degree before 1 January 2020, the student will be offered the opportunity to complete the Bachelor of Science degree under the resolutions that applied at 1 January 2017.

Candidates who commenced prior to 1 January, 2018 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2027.
Non-Confidential

<table>
<thead>
<tr>
<th>Author</th>
<th>D Leadbeatter</th>
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<tbody>
<tr>
<td>Reviewer/Approver</td>
<td>Prof. Inam Haq</td>
</tr>
<tr>
<td>Paper title</td>
<td>Sydney Dental School: course resolutions changes professionalism</td>
</tr>
<tr>
<td>Purpose</td>
<td>The purpose of this proposal is to seek approval of the Undergraduate Studies Committee for 2020 additional changes to SDS course resolutions in alignment with FMH professionalism provisions, reassessment and fail grade.</td>
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</tbody>
</table>

RECOMMENDATION

That the Undergraduate Studies Committee review and approve the additional amendments to the 2020 course resolutions for the following Sydney Dental School programs:

Bachelor of Oral Health

EXECUTIVE SUMMARY

Course resolutions require amendment to align with 2020 combined FMH professionalism provisions.

BACKGROUND / CONTEXT

Reference to a specific professionalism assessment deleted from progression requirements for SDS courses since schools in FMH will operate under combined FMH professionalism provisions, and the updated reference to the fail grade and mark.

Clause 5 Reassessment inserted into the Course Resolutions, due to the revised FMH Faculty Resolutions no longer include this information.

CONSULTATION

Resolution changes were approved by FMH Education Committee 6 June 2019 and Faculty Board via circulation 14 June 2019.

IMPLEMENTATION

2020

COMMUNICATION

Changes to the professionalism processes in FMH will be communicated via the Sydney Dental School Learning and Teaching Committee and to students during welcome week activities.

ATTACHMENTS

(Attachment 1)
Minor Course Amendment Proposal – Course Resolutions

Faculty: Faculty of Medicine and Health (Sydney Dental School)

Contact person: Delyse Leadbeatter

1. Name of award course
   Bachelor of Oral Health

2. Purpose of proposal
   To update and amend Course Resolutions of the Bachelor of Oral Health regarding the Progression Rules and recent insertion of the Reassessment Clause;

   Clause 5 Reassessment
   Clause 6 (3) for the Bachelor of Oral Health, regarding clarity to the fail grade
   Clause 6 (4) (b) for the Bachelor of Oral Health, regarding professionalism provisions

3. Details of amendment Course Resolutions

   5 Reassessment
   (1) Reassessment may be offered to students, consistently with the progression requirements for the award course, on the basis of a student’s academic achievement across the relevant program and the nature of the relevant assessment.
   (2) Where reassessment is offered, one reassessment will be offered.
   (3) Reassessment will not be offered for the following components:
       (a) continuous sessional clinical or pre-clinical assessment;
       (b) attendance requirements; or (c) clinical experience.
   (4) Students are responsible for ensuring their availability for remediation and reassessment during the period specified by the School. No further opportunities for remediation or reassessment will be provided.
   (5) The grades awarded for reassessments are Pass or Fail.
   (6) Any student who fails a reassessment will be considered to have failed the year and will be required to repeat it.
   (7) The SDS Assessment Local provision contains further information about reassessment in the Sydney Dental School.

   6 Progression Rules
   (3) Where a student fails a component of a unit of study, which results in the student being considered to have failed the whole unit of study, a grade of Fail (FA) and a mark of 45 percent will be awarded for that unit of study.

   (4) Any student who fails to:
       (a) meet the requirements of continuous sessional clinical or pre-clinical assessment, in accordance with the Faculty School of Dentistry - Assessment Provisions 2017;
       (b) meet the requirements of the clinical and professionalism assessment, in accordance with the Faculty of Dentistry - Assessment Provisions 2017, the Faculty of Dentistry - Professionalism Provisions 2017 and the Faculty of Dentistry - Professionalism Expectations Provisions 2015;
       (c) (b) meet the attendance requirements, in accordance with the Faculty School of Dentistry - Attendance Provisions 2015; or
       (d) (c) demonstrate adequate depth and breadth of clinical experience will be considered to have failed the year and will be required to repeat it. No reassessment will be offered.
4. Transitional arrangements

These changes will apply to candidates from 2020.

5. Other relevant information

6. Signature of Dean
Bachelor of Oral Health

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the ‘Coursework Rule’), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

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<tr>
<td>BUORAHEA-01</td>
<td>Bachelor of Oral Health</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Admission to candidature

(1) Available places will be offered to qualified applicants on merit, in accordance with the following admission criteria.

(2) Admission to the Bachelor of Oral Health requires:

(a) a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents),
(b) performance in an interview to a standard considered satisfactory by the Head of School and Dean.

(3) Applicants are ranked by merit and offers for available places are issued according to the ranking. The School Faculty may give bonus point to, or rank separately, any applicants who apply for admission under a Special Admission Program.

4 Requirements for award

(1) The units of study that may be taken for the course are set out in Table of Undergraduate Units of Study for the Bachelor of Oral Health.

(2) To qualify for the award of the degree, a candidate must successfully complete a fixed curriculum of 144 credit points in the order prescribed in the table of units.

(3) Students must attend clinical simulation and clinical placements to meet the requirements of the program.

5 Reassessment

(1) Reassessment may be offered to students, consistently with the progression requirements for the award course, on the basis of a student academic achievement across the relevant program and the nature of the relevant assessment.

(2) Where reassessment is offered, one reassessment will be offered.

(3) Reassessment will not be offered for the following components:

(a) continuous sessional clinical or pre-clinical assessment;
(b) attendance requirements; or
(c) clinical experience.

(4) Students are responsible for ensuring their availability for remediation and reassessment during the period specified by the School. No further opportunities for remediation or reassessment will be provided.

(5) The grades awarded for reassessments are Pass or Fail.

(6) Any student who fails a reassessment will be considered to have failed the year and will be required to repeat it.

(7) The SDS Assessment Local provision contains further information about reassessment in the Sydney Dental School.

6 Progression rules

All Years

(1) These progression requirements should be read in conjunction with the relevant Unit of Study Outlines, Faculty Local Provisions and Faculty Resolutions.

(2) Satisfactory performance requires a mark of 50% or higher unless otherwise specified in the relevant unit of study outline.

(3) Where a student fails a component of a unit of study, which results in the student being considered to have failed the whole unit of study, a grade of Fail (FA) and a mark of 45 percent will be awarded for that unit of study.

(4) Any student who fails to:

(a) meet the requirements of continuous sessional clinical or pre-clinical assessment, in accordance with the Sydney Dental School School of Dentistry - Faculty of Dentistry - Assessment Provisions 2017;
(b) meet the requirements of the clinical and professionalism assessment, in accordance with the Sydney Dental School Faculty of Dentistry - Assessment Provisions 2017, the Faculty of Dentistry - Professionalism Provisions 2017 and the Sydney Dental School Faculty of Dentistry - Professionalism Expectations Provisions 2015;
(c) meet the attendance requirements, in accordance with the School of Dentistry Sydney Dental School Faculty of Dentistry - Attendance Provisions 2015; or
(d) demonstrate adequate depth and breadth of clinical experience will be considered to have failed the year and will be required to repeat it. No reassessment will be offered.
(5) Any student who successfully completes a reassessment, and has not yet reached the maximum period for meeting course requirements, will be permitted to progress.

(6) Any student who fails a reassessment will be considered to have failed the year.

(7) Any student who fails a Unit of Study after having repeated the year of study will be asked to show good cause why they should be permitted to re-enrol in the award course, in accordance with the provisions of the Coursework Policy 2014.

(8) Year 1

(1) Students may not progress to Year 2 unless they have passed the following assessments:
   (a) Periodontics Theory Barrier Exam
   (b) Periodontal Instrumentation Practical Barrier Exam

(2) Students who fail both of these assessments will be considered to have failed the year and will be required to repeat it. No reassessment will be offered.

(3) Students who fail no more than 1 of these assessments will be offered reassessment.

(4) Students who fail reassessment will be considered to have failed the entire year and will be required to repeat it.

(9) Year 2

(1) Students may not progress to Year 2 Semester 2 unless they have passed the Paedodontics Pre-Clinical Practical Barrier Exam.

(2) Students who fail this assessment will be offered reassessment.

(3) Students who fail reassessment will be considered to have failed the entire year and will be required to repeat it.

7 Award of the degree

The Bachelor of Oral Health is awarded as Pass only.

8 Cross institutional study

Cross institutional study is not available in this course.

9 Credit for previous study

(1) Candidates may be granted credit for previous studies, according to the provisions of the Coursework Policy 2014, and in addition:
   (a) the study must be completed no more than five years before admission to candidature for this course;
   (b) the study completed must be equivalent to any unit of study in the Bachelor of Oral Health table of units;
   (c) the study must have been completed to credit level or equivalent;
   (d) if the previous award has been conferred, the maximum credit that may be granted is 48 credit points.

10 Transitional provisions

(1) These resolutions apply to persons who commenced their candidature after 1 January, 2018 and persons who commenced their candidature prior to 1 January, 2018 and who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2018 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that requirements are completed by 1 January, 2021, or later date as the faculty may, in special circumstances, approve.
Minor Course Amendment Proposal

Faculty: Faculty of Health Sciences
Contact person: A/Prof Corinne Caillaud

1. Name of award course

- Bachelor of Applied Science (Diagnostic Radiography)
- Bachelor of Applied Science (Exercise and Sport Science)
- Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science)
- Bachelor of Applied Science (Exercise Physiology)
- Bachelor of Applied Science (Occupational Therapy)
- Bachelor of Applied Science (Physiotherapy)
- Bachelor of Applied Science (Speech Pathology)

2. Purpose of proposal

The purpose of this proposal is to seek amendments to undergraduate award courses, currently offered by the Faculty of Health Sciences, which will be offered by the Faculty of Medicine and Health from 2020.

These amendments are intended to be administrative in nature, in order to maintain a consistent set of requirements for courses that will be offered by the Sydney School of Health Sciences as we transition to the new Faculty structure. Requirements that were previously governed by the Faculty Resolutions for the Faculty of Health Sciences are proposed to now be included as part of the course resolutions.

3. Details of amendment

The specific amendments are included in the attached documents for each course.

In summary, the amendments specify requirements for credit, clinical placement requirements, and requirements for satisfactory progress, in addition to updating references to the Faculty of Health Sciences to now specify the Faculty of Medicine and Health.

4. Transitional arrangements

The transitional arrangements are set out in the proposed course resolutions for each course.

5. Other relevant information

These changes have been endorsed by the Faculty of Health Sciences Education Committee (the standing committee for approval of curriculum matters)

6. Signature of Dean
BACHELOR OF APPLIED SCIENCE  
(DIAGNOSTIC RADIOGRAPHY)

Bachelor of Applied Science (Diagnostic Radiography)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the ‘Coursework Rule’), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

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<td>BPASDRAD-01</td>
<td>Bachelor of Applied Science (Diagnostic Radiography)</td>
</tr>
<tr>
<td>BPASDRAD1HON</td>
<td>Bachelor of Applied Science (Diagnostic Radiography) (Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for these courses is full-time only.

3 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Policy 2014.

4 Requirements for award

(1) The units of study that may be taken for these courses are set out in the Faculty of Health Sciences:
   (a) Table of units of study for the Bachelor of Applied Science (Diagnostic Radiography); and
   (b) Table of International Health UOSs; and
   (c) Table of Undergraduate Elective units of study.

(2) To qualify for the award of the pass degree, a candidate must successfully complete 192 credit points of units of study comprising:
   (a) 174 credit points of core units; and
   (b) 6 credit points of elective units chosen from the ‘International Health’ list (BACH3128, HSBH3009 or HSBH3012); and
   (c) 12 credit points chosen from the Faculty of Health Sciences Undergraduate Faculty Elective List (or from any undergraduate units available throughout the University, subject to approval by the Program Director Dean.)
5 Progression rules

Students are required to attempt and pass all MRTYXXXX Work Integrated Learning units of study in the progression order as displayed table of units of study for the Bachelor of Applied Science (Diagnostic Radiography) Pass and Honours. Students who fail Work Integrated Learning units of study will undergo remediation activities in accordance with the Faculty’s Clinical progression procedures.

5 Satisfactory progress

(1) The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as set out in the provisions relating to progression in the Coursework Policy), students must pass the following clinical educational fieldwork/professional experience units of study which are critical to progression through the course:
   i. MRTY2104 Radiography Work Integrated Learning 1
   ii. MRTY2108 Radiography Work Integrated Learning 2
   iii. MRTY3121 Radiography Work Integrated Learning 3
   iv. MRTY3123 Radiography Work Integrated Learning 4
   v. MRTY4038 Radiography Work Integrated Learning 5
   vi. MRTY4040 Radiography Work Integrated Learning 6
   vii. MRTY4042 Radiography Work Integrated Learning 7
   viii. MRTY4044 Radiography Work Integrated Learning 8

(2) Students must meet all requirements of clinical placement components of any unit of study undertaken. Performance in clinical placements will be monitored in accordance with the requirements specified in the unit of study outline, and any relevant University policy or provision.

(3) Students who have failed two units of study specified in Clause 6 (1) or twice failed the same unit of study identified in Clause 6 (1) will result in a student being asked to Show Good Cause as to why they should be allowed to re-enrol in their award course.

(4) Students must complete at least one core unit per semester where core units are available for study in the normal progression pattern. Students who fail a core unit of study must repeat the failed unit at the first opportunity.

(5) Students whose conduct or work towards their award is unsatisfactory, may, on the recommendation of the highest delegated authority, be refused permission by the Faculty to undertake or continue the clinical educational fieldwork/professional experience component of their award. The Faculty reserves the right not to place a student in any clinical placement or other professional experience setting in any instance where the performance, personal or professional conduct of the student does not meet the required standard of the professional organisation, regardless of the fact that the student may be enrolled in the unit of study.

6 Requirements for the Honours degree

(1) Honours is available to meritorious students as an integrated honours degree. Students who will complete an alternative set of units of study in the last three semesters of the program. Admission to the Honours program is by permission of the program coordinator Program Director and Associate Dean after the completion of second year. Admission is competitive and is based on performance during years 1 and 2 of the course. Performance is assessed based on the student's Weighted Average Mark (WAM), however, students will not normally be admitted to the honours program if they have failed a unit of study.

(2) To qualify for the award of the honours degree a candidate must:
   a) complete the requirements for the pass degree but include the alternative honours units of study listed in the Bachelor of Applied Science (Diagnostic Radiography) Honours Table of units of study.
   b) maintain a credit average or higher throughout the honours program.
   c) not fail a unit of study throughout their degree (except with the approval of the relevant delegated authority) any exceptions require Honours Committee approval.

7 Award of the degree

(1) The Bachelor of Applied Science (Diagnostic Radiography) is awarded at either Pass or Honours level. The honours degree is awarded in classes ranging from First Class to Third Class according to the rules specified in the Resolutions of the Faculty of Health Sciences.

(2) The honours mark will be determined in integrated honours by the following calculation:
Final honours mark = 2/3*(FHS HWAM) + 1/3*(Yr 3/4 WAM), where the FHS HWAM is the average mark for honours units weighted as follows:
1 x BHSC3021 Honours A: Research Design
2 x BHSC4012 Honours B: Applied Research Skills
7 x BHSC4013 Honours C: Research Project
and the Yr 3/4 WAM is the average mark of all attempted Year 3 and Year 4 units of study, as specified in the
Faculty Sydney School of Health Sciences handbook, excluding Practicum and Clinical Placement units.

(3) Honours is awarded in the following classes:

<table>
<thead>
<tr>
<th>Description</th>
<th>Mark Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
<td>80≥ honours mark ≤100</td>
</tr>
<tr>
<td>Second Class / (Division I)</td>
<td>75≥ honours mark &lt;80</td>
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<td>Second Class / (Division II)</td>
<td>70≥ honours mark &lt;75</td>
</tr>
<tr>
<td>Third Class</td>
<td>65≥ honours mark &lt;70</td>
</tr>
<tr>
<td>Honours not awarded</td>
<td>mark &lt;65</td>
</tr>
</tbody>
</table>

(4) Candidates for the award of the Honours degree who do not meet the requirements, will be awarded the pass
degree if they have completed the requirements for that award.

8 International exchange

The Faculty encourages candidates to participate in international exchange programs subject to the host institution
offering units of study that are considered acceptable by the Course Director Program Director or contained within
an institutional-specific MoU. For more information on international exchanges refer to the International Office.

9 Credit for previous study

(1) Credit transfer is subject to the provisions of the Coursework Policy 2014 and the Resolutions of the Faculty of
Health Sciences, Faculty of Medicine and Health, except that credit will not be granted for recognised prior learning
older than 5 years at the time of first enrolment.
(2) Credit will not be granted for any unit of study which a result of Terminating Pass or Pass (Concessional) has
been awarded.
(3) All candidates for the Bachelor of Applied Science (Diagnostic Radiography) pass and Bachelor of Applied
Science (Diagnostic Radiography) honours notwithstanding any credit transfer, must complete 192 credit points of
study.

10 Requirements for students undertaking clinical placements

(1) Certificate of competency in CPR
Students must provide proof they hold an Australian current Cardiopulmonary (CPR) Certificate prior to
attending their placement and that it is valid for the duration of the placement. Please refer to our University
Placements web site for further information:
https://sydney.edu.au/students/clinical-placement-checks/first-aid.html

(2) Student clearance for clinical placements
The NSW Ministry of Health requires that all students obtain clearance in order to undertake clinical
placements. This involves a criminal record check. Please refer to the University’s Placements web site for
further information:
https://sydney.edu.au/students/clinical-placement-checks/criminal-record-check.html

(3) Immunisation
Students must have evidence of vaccinations and immunisation against certain infectious diseases prior to
undertaking clinical placements. The requirements are consistent with Australian public health policy and
NHMRC guidelines. Please refer to the University’s Placements web site for further information:
https://sydney.edu.au/students/clinical-placement-checks/vaccinations.html

(4) Working with Children check
Students undertaking ‘child-related’ placements as part of their course are subject to the requirements of the NSW Child Protection (Working with Children) Act 2012 and the Working with Children Procedures 2014. For further information:


(5) NSW Health Records and Information Privacy Act (2002)
Students must familiarise themselves with the content of the NSW Health Privacy Management Plan and comply with the NSW Ministry of Health Code of Conduct, NSW Health Records and Information Privacy Act 2002 and Privacy and Personal Information Protection Act 1998. Please refer to the University’s Placements web site for further information:

https://sydney.edu.au/students/clinical-placement-checks/privacy.html

10 Course Transfer

A student currently enrolled in the Bachelor of Applied Science (MRS) Diagnostic Radiography may apply for the Bachelor of Applied Science (Diagnostic Radiography) through the Universities Admissions Centre, or where applicable, through the International Office as a new student. Candidates who receive an offer of admission into the new degree may receive credit for some first year units of study but will not receive credit for any units of study completed in years 2 or 3 of their original course.

11 Transitional Provisions

(1) These resolutions apply to students who commenced their candidature after 1 January 2019 2020 and students who commenced their candidature prior to 1 January 2019 2020 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January 2019 2020 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January 2024. The faculty may specify a later date for completion specify alternative requirements for completion of candidatures that extend beyond this time.
BACHELOR OF APPLIED SCIENCE (EXERCISE AND SPORT SCIENCE)

Course rules

Bachelor of Applied Science (Exercise and Sport Science)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the "Coursework Rule"), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course and stream title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPASESSC-03</td>
<td>Bachelor of Applied Science (Exercise and Sport Science)</td>
</tr>
<tr>
<td>BPASEAVS-01</td>
<td>Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science)</td>
</tr>
<tr>
<td>BHASESSH-01</td>
<td>Bachelor of Applied Science (Exercise and Sport Science) (Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for these courses is full time only.

3 Faculty management

1. Candidates undertaking the Bachelor of Applied Science (Exercise and Sport Science) and the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) without Honours will be under the supervision of the Faculty of Health Sciences Faculty of Medicine and Health.

2. Candidates undertaking the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) with Honours will be under the supervision of the Faculty of Health Sciences Faculty of Medicine and Health for all parts of the degree except the embedded Honours component specified in Section 8 of these resolutions.

3. Candidates undertaking an embedded Honours component as specified in Section 8 of these resolutions will be under the supervision of the faculty offering and supervising the embedded Honours component in which the candidate enrols. The faculty offering and supervising the embedded component will direct the Faculty of Health Sciences Faculty of Medicine and Health on all matters relating to admission, requirements, award of honours mark and award of honours grade.

4. The Dean of the Faculty of Health Sciences Faculty of Medicine and Health shall exercise authority in any matter concerned with the Bachelor of Applied Science (Exercise and Sport) and the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) with or without Honours not otherwise dealt with in these resolutions.

4 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres
5 Requirements for award

(1) The units of study that may be taken for the Bachelor of Applied Science (Exercise and Sport Science) and the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) are set out in:
   (a) Table A for the Bachelor of Applied Science (Exercise and Sport Science) and the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science);
   (b) Table S of the Shared Pool for Undergraduate Degrees; and
   (c) Table O of the Shared Pool for Undergraduate Degrees.
In these resolutions, except where otherwise specified, Table A, Table S and Table O mean Table A, Table S and Table O as specified here.

(2) Bachelor of Applied Science (Exercise and Sport Science):
To qualify for the award of the Bachelor of Applied Science (Exercise and Sport Science), a candidate must complete 144 credit points, comprising:
   (a) Degree Core: 12 credit points of core units of study as set out in Table A
   (b) a major (48 credit points) in Exercise Science listed and defined in Section 6 below and specified in Table A; and
   (c) a minor (36 credit points) in Physical Activity and Health as listed and defined in Section 6 below and specified in Table A;
   (d) optionally, a second minor (36 credit points) or second major (48 credit points) as defined in Section 6 below and specified in Table A or Table S; and
   (e) optionally, up to 12 credit points of elective units from Table O
   (f) any additional elective units of study from Table A or Table S to satisfy a total of 144 credit points for the course

(3) Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science):
To qualify for the award of the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science), a candidate must complete 192 credit points, comprising:
   (a) Degree Core: 12 credit points of core units of study as set out in Table A
   (b) a major (48 credit points) in Exercise Science listed and defined in Section 6 below and specified in Table A; and
   (c) a minor (36 credit points) in Physical Activity and Health as listed and defined in Section 6 below and specified in Table A; and
   (d) a second major (48 credit points) as defined in Section 6 below and specified in Table A or Table S;
   (e) 12 credit points of units of study in the Open Learning Environment as listed in Table O;
   (f) a minimum of 24 credit points at 4000 level from Table A or Table S, including a research, community, industry or entrepreneurship project of at least 12 and a maximum of 36 credit points; and
   (g) any additional elective units of study from Table A or Table S to satisfy a total of 192 credit points for the course;

6 Majors and minors

(1) Bachelor of Applied Science (Exercise and Sport Science):
   (a) Completion of a major and minor from Table A is a requirement of the Bachelor of Applied Science (Exercise and Sport Science). Requirements for completion of majors and minors are as set out in Table A and Table S.
   (b) Candidates in the Bachelor of Applied Science (Exercise and Sport Science) have the option of completing a second major from Table A (which includes the embedded minor in Physical Activity and Health) or a second minor or major from Table S.

(2) Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science):
Completion of an Exercise Science major from Table A, a minor in Physical Activity and Health, and a second major from Table A (which includes the embedded minor in Physical Activity and Health) or second major from Table S, is a requirement of the Bachelor of Applied Science/Bachelor of Advanced Studies. Requirements for completion of majors and minors are as set out in Table A and Table S.

(3) The majors and minors available in Table A in the Bachelor of Applied Science (Exercise and Sport Science) and the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) are:
7 Progression rules

(1) Progression within a major, minor or program:
Enrolment and progression within a major, minor or program is governed by progression rules specified for that component in the relevant Table.

(2) Progression within the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science):
Except with the permission of the Bachelor of Applied Science (Exercise and Sport Science) course program director, candidates who must complete the degree requirements listed under 5(2) before progressing to 4000-level units.

8 Satisfactory progress

(1) The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as set out in the provisions relating to progression in the Coursework Policy), students must pass the following clinical educational fieldwork/professional experience units of study which are critical to progression through the course:
   i. EXSS3XXX Practicum in Exercise Science 1
   ii. EXSS3XXX Practicum in Exercise Science 2

(2) Students must meet all requirements of clinical placement components of any unit of study undertaken. Performance in clinical placements will be monitored in accordance with the requirements specified in the unit of study outline, and any relevant University policy or provision.

(3) Students who have failed two units of study specified in Clause 8 (1) or twice failed the same unit of study identified in Clause 6 (1) will result in a student being asked to Show Good Cause as to why they should be allowed to re-enrol in their award course.

(4) Students must complete at least one core unit per semester where core units are available for study in the normal progression pattern. Students who fail a core unit of study must repeat the failed unit at the first opportunity.

(5) Students whose conduct or work towards their award is unsatisfactory, may, on the recommendation of the highest delegated authority, be refused permission by the Faculty to undertake or continue the clinical educational fieldwork/professional experience component of their award. The Faculty reserves the right not to place a student in any clinical placement or other professional experience setting in any instance where the performance, personal or professional conduct of the student does not meet the required standard of the professional organisation, regardless of the fact that the student may be enrolled in the unit of study.

89 Requirements for the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) with honours

(1) An embedded Honours component, involving a research project, is available to meritorious students in the Bachelor of Applied Science/Bachelor of Advanced Studies (Exercise and Sport Science) who complete an alternative set of units of study in the final year.
   (a) Candidates undertaking an Honours component within the Faculty of Health Sciences Faculty of Medicine and Health must complete the requirements for the Honours component full-time over two consecutive semesters. If the Faculty School is satisfied that a student is unable to attempt the Honours component on a full time basis and if the Associate Dean so recommends, permission may be granted to undertake Honours part-time over four consecutive semesters.
   (b) For candidates undertaking an Honours component with the Faculty of Health Sciences Faculty of Medicine and Health, admission, requirements and award of honours are according to the Coursework Policy, these resolutions and the Resolutions of the Faculty of Health Sciences Faculty of Medicine and Health.
   (c) For candidates undertaking an Honours component in another faculty, admission, requirements and award of Honours are according to the Coursework Policy, these resolutions and the relevant resolutions of the faculty in which the component is undertaken.
Admission to Honours is by permission of the Associate Dean and relevant honours coordinator or Program Director after the completion of all of the following requirements:

(a) Completion of the requirements set out in 5(2)
(b) a Weighted Average Mark of at least 65.0 in units of study completed to that point, and a major or study of equivalent depth in the area of the proposed honours project; or a credit average in 48 credit points in relevant 2000-level and 3000 units of study relevant to the honours area, as determined by the faculty concerned;
(c) any requirements for honours entry set by the relevant department, school or faculty.

To qualify for the award of the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) with Honours, a candidate must complete the requirements for the pass degree and at least 36 and a maximum of 48 credit points of additional Honours units at 4000 level or above, including an Honours research project of at least 12 and a maximum of 36 credit points, and at least 12 and a maximum of 36 credit points of Honours coursework, as required by the relevant department and published in the faculty handbook. Honours subject areas and units of study for honours within the Faculty Sydney School of Health Sciences are listed in Table A for the relevant faculty school or Table S in the Shared Pool for Undergraduate degrees.

The grade of Honours will be determined by an honours mark calculated from work in the embedded Honours component as specified in these resolutions, in the resolutions for the Faculty of Health Sciences or in the resolutions of the relevant faculty school.

910 Award of the Bachelor of Applied Science (Exercise and Sport Science), Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) and Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) with Honours

(1) Candidates for the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) who have completed the requirements for the Bachelor of Applied Science (Exercise and Sport Science) but who do not meet the requirements for the combined degree will be awarded the Bachelor of Applied Science (Exercise and Sport Science).

(2) Honours in the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) is awarded in classes ranging from First Class to Third Class according to the following table, the Coursework Policy and rules specified in the Resolutions of the Faculty of Health Sciences Faculty of Medicine and Health, or relevant resolutions for the faculty in which the embedded honours component is undertaken.

<table>
<thead>
<tr>
<th>Honours Mark Range</th>
<th>Honours Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 ≤ mark ≤ 100</td>
<td>First Class</td>
</tr>
<tr>
<td>75 ≤ mark &lt; 80</td>
<td>Second Class / Division 1</td>
</tr>
<tr>
<td>70 ≤ mark &lt; 75</td>
<td>Second Class / Division 2</td>
</tr>
<tr>
<td>65 ≤ mark &lt; 70</td>
<td>Third Class</td>
</tr>
</tbody>
</table>

(3) Candidates for the award of the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) with honours who do not meet the requirements for the honours degree, but who otherwise meet the requirements for the Bachelor of Applied Science (Exercise and Sport Science), or the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) will be awarded the Bachelor of Applied Science (Exercise and Sport Science), or the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) as appropriate.
1011 Course transfer

A candidate may abandon the Bachelor of Applied Science / Bachelor of Advanced Studies (Exercise and Sport Science) combined degree and elect to complete the Bachelor of Applied Science (Exercise and Sport Science) in accordance with these resolutions.

1112 Credit for previous study

(1) Credit transfer is subject to the provisions of the Coursework Policy, the Resolutions of the Faculty of Medicine and Health Sciences or, in the case of a major or minor offered by another faculty, any relevant resolutions of that faculty.
(2) The Coursework Policy specifies the general conditions for the granting of credit for previous study to courses, except that credit will not be granted for recognised prior learning older than 5 years at the time of first enrolment.
(3) Credit will not be granted for any unit of study for which a result of Terminating Pass or Pass (Concessional) has been awarded.

1213 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2011 2020.
(2) Candidates who commenced prior to 1 January, 2011 2020 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2025 2016. The Faculty School may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
BACHELOR OF APPLIED SCIENCE (EXERCISE PHYSIOLOGY)

Bachelor of Applied Science (Exercise Physiology)
Bachelor of Applied Science (Exercise Physiology) (Honours)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the 'Coursework Rule'), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPASEXPH-02</td>
<td>Bachelor of Applied Science (Exercise Physiology)</td>
</tr>
<tr>
<td>BPASEXPH1HON</td>
<td>Bachelor of Applied Science (Exercise Physiology) (Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for this course is full time only.

3 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Policy 2014.

4 Requirements for award

(1) The units of study that may be taken for this course are set out in the Course Tables for the Bachelor of Applied Science (Exercise Physiology), the Faculty of Health Sciences Undergraduate Electives Table, the list of Table S Electives from the Shared Pool for Undergraduate Degrees and Table O from the Shared Pool for Undergraduate Degrees.

Unless otherwise indicated in these resolutions the Course Tables, the Undergraduate Electives Table, Table S and Table O mean the tables specified here.

(2) To qualify for the award of the pass degree, a candidate must successfully complete 192 credit points of units of study including:
   a) 156 credit points of core units of study from the Course Tables
   b) 6 credit points of selective units of study from the Course Tables
   c) Optionally, up to 12 credit points of units of study in the Open Learning Environment as listed in Table O
   d) Where appropriate, additional elective units of study as required, chosen from the list of elective units in the Course Tables; from the Faculty of Health Sciences Undergraduate Electives table, or from the list of Table S Electives.
5 Requirements for the Honours degree

(1) Honours is available to meritorious students who complete an alternative set of units of study in the last three semesters of the program. Admission to the Honours program is by permission of the program coordinator and Associate Dean after the completion of second year. Admission is competitive and is based on performance during years 1 and 2 of the course. Performance is assessed based on the student's Weighted Average Mark (WAM), however, students will not normally be admitted to the honours program if they have failed a unit of study.

(2) To qualify for the award of the honours degree a candidate must:
   (a) complete the requirements for the pass degree but include the alternative honours units of study listed in the Bachelor of Applied Science (Exercise Physiology) Honours Table of units of study.
   (b) maintain a credit average or higher throughout the honours program.
   (c) not fail a unit of study throughout their degree (any exceptions require Honours Committee approval).

6 Credit for previous study

(1) The Coursework Policy specifies the general conditions for the granting of credit for previous study for these courses, except that credit will not be granted for recognised prior learning older than 5 years at the time of first enrolment.

(2) Credit will not be granted for any unit of study for which a result of Terminating Pass or Pass (Concessional) has been awarded.

7 Requirements for students undertaking clinical placements

(1) Certificate of competency in CPR
   Students must provide proof they hold an Australian current Cardiopulmonary (CPR) Certificate prior to attending their placement and that it is valid for the duration of the placement. Please refer to our University Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/first-aid.html

(2) Student clearance for clinical placements
   The NSW Ministry of Health requires that all students obtain clearance in order to undertake clinical placements. This involves a criminal record check. Please refer to the University's Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/criminal-record-check.html

(3) Immunisation
   Students must have evidence of vaccinations and immunisation against certain infectious diseases prior to undertaking clinical placements. The requirements are consistent with Australian public health policy and NHMRC guidelines. Please refer to the University’s Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/vaccinations.html

(4) Working with Children check
   Students undertaking ‘child-related’ placements as part of their course are subject to the requirements of the NSW Child Protection (Working with Children) Act 2012 and the Working with Children Procedures 2014. For further information: https://sydney.edu.au/students/working-with-children.html

(5) NSW Health Records and Information Privacy Act (2002)
   Students must familiarise themselves with the content of the NSW Health Privacy Management Plan and comply with the NSW Ministry of Health Code of Conduct, NSW Health Records and Information Privacy Act 2002 and Privacy and Personal Information Protection Act 1998. Please refer to the University’s Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/privacy.html

8 Satisfactory progress

(1) The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as set out in the provisions relating to progression in the Coursework Policy), students
must pass the Practicum and Clinical Practice units of study, which are critical to progression through the
course:

(2) Students must meet all requirements of clinical placement components of any unit of study undertaken.
Performance in clinical placements will be monitored in accordance with the requirements specified in the
unit of study outline, and any relevant University policy or provision.

(3) Students who have failed two units of study specified in Clause 8 (1) or twice failed the same unit of study
identified in Clause 8 (1) will result in a student being asked to Show Good Cause as to why they should
be allowed to re-enrol in their award course.

(4) Students must complete at least one core unit per semester where core units are available for study in
the normal progression pattern. Students who fail a core unit of study must repeat the failed unit at the
first opportunity.

(5) Students whose conduct or work towards their award is unsatisfactory, may, on the recommendation of
the highest delegated authority, be refused permission by the Faculty to undertake or continue the clinical
educational fieldwork/professional experience component of their award. The Faculty reserves the right
not to place a student in any clinical placement or other professional experience setting in any instance
where the performance, personal or professional conduct of the student does not meet the required
standard of the professional organisation, regardless of the fact that the student may be enrolled in the
unit of study.

(6) Candidates for honours must maintain a credit average throughout the program.

6.9 Award of the degree

(1) The Bachelor of Applied Science (Exercise Physiology) is awarded at either Pass or Honours level. The
honours degree is awarded in classes ranging from First Class to Third Class according to the rules specified
in the Resolutions of the Faculty of Health Sciences.

(2) The honours mark will be determined in integrated honours by the following calculation:
Final honours mark = 2/3*(FHS HWAM) + 1/3*(Yr 3/4 WAM), where the FHS HWAM is the average mark for
honours units weighted as follows:
1 x BHSC3021 Honours A: Research Design
2 x BHSC4012 Honours B: Applied Research Skills
7 x BHSC4013 Honours C: Research Project
and the Yr 3/4 WAM is the average mark of all attempted Year 3 and Year 4 units of study, as specified in the
Faculty table of units of study for the Bachelor of Applied Science (Exercise Physiology), excluding Practicum
and Clinical Practice units of study.

(3) Honours is awarded in the following classes:

<table>
<thead>
<tr>
<th>Description</th>
<th>Mark Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
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<tr>
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<td>70≤ honours mark &lt;75</td>
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<tr>
<td>Third Class</td>
<td>65≤ honours mark &lt;70</td>
</tr>
<tr>
<td>Honours not awarded</td>
<td>mark &lt;65</td>
</tr>
</tbody>
</table>

(4) Candidates for the award of the Honours degree who do not meet the requirements, will be awarded the
pass degree if they have completed the requirements for that award.

10 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2020 and students
who commenced their candidature prior to 1 January, 2020 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2020 may complete the requirements in accordance with the
resolutions in force at the time of their commencement, provided that the requirements are completed by 1
January, 2026. The Faculty may specify a later date for completion or specify alternative requirements for
completion of candidatures that extend beyond this time.
BACHELOR OF APPLIED SCIENCE
(OCcupational Therapy)

Bachelor of Applied Science (Occupational Therapy)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the 'Coursework Rule'), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

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<tr>
<th>Code</th>
<th>Course and stream title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPASOCTE-05</td>
<td>Bachelor of Applied Science (Occupational Therapy)</td>
</tr>
<tr>
<td>BPASOCTE5HON</td>
<td>Bachelor of Applied Science (Occupational Therapy) (Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for these courses is full time only.

3 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Policy 2014.

4 Requirements for award

(1) The units of study that may be taken for these courses are set out in the Faculty of Health Sciences: (a) Table of units of study for the Bachelor of Applied Science (Occupational Therapy); and (b) Table of Health Sciences Undergraduate Elective units of study

(2) To qualify for the award of the pass degree, a candidate must complete 192 credit points of units of study comprising: (a) 156 credit points of core units; and (b) 36 credit points of elective units, including a minimum of 6 credit points from the Behavioural or Social Sciences and 6 credit points from the Biomedical Sciences.

5 Requirements for the Honours degree

(1) Honours is available to meritorious students who complete an alternative set of units of study in the last three semesters of the program. Admission to the Honours program is by permission of the program coordinator and Associate Dean after the completion of second year. Admission is competitive and is based on performance during years 1 and 2 of the course. Performance is assessed based on the student's Weighted Average Mark.
(WAM), however, students will not normally be admitted to the honours program if they have failed a unit of study.

(2) To qualify for the award of the honours degree a candidate must:
   (a) complete the requirements for the pass degree but include the alternative honours units of study listed in the Bachelor of Applied Science (Occupational Therapy) Honours Table of units of study.
   (b) maintain a credit average or higher throughout the honours program
   (c) not fail a unit of study throughout their degree (any exceptions require Honours Committee approval).

6 Credit for previous study

(1) The Coursework Policy specifies the general conditions for the granting of credit for previous study for these courses, except that credit will not be granted for recognised prior learning older than 5 years at the time of first enrolment.

(2) Credit will not be granted for any unit of study for which a result of Terminating Pass or Pass (Concessional) has been awarded.

7 Requirements for students undertaking clinical placements

(1) Certificate of competency in CPR
   Students must provide proof they hold an Australian current Cardiopulmonary (CPR) Certificate prior to attending their placement and that it is valid for the duration of the placement. Please refer to our University Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/first-aid.html

(2) Student clearance for clinical placements
   The NSW Ministry of Health requires that all students obtain clearance in order to undertake clinical placements. This involves a criminal record check. Please refer to the University’s Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/criminal-record-check.html

(3) Immunisation
   Students must have evidence of vaccinations and immunisation against certain infectious diseases prior to undertaking clinical placements. The requirements are consistent with Australian public health policy and NHMRC guidelines. Please refer to the University’s Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/vaccinations.html

(4) Working with Children check
   Students undertaking ‘child-related’ placements as part of their course are subject to the requirements of the NSW Child Protection (Working with Children) Act 2012 and the Working with Children Procedures 2014. For further information: https://sydney.edu.au/students/working-with-children.html

(5) NSW Health Records and Information Privacy Act (2002)
   Students must familiarise themselves with the content of the NSW Health Privacy Management Plan and comply with the NSW Ministry of Health Code of Conduct. NSW Health Records and Information Privacy Act 2002 and Privacy and Personal Information Protection Act 1998. Please refer to the University’s Placements web site for further information:
   https://sydney.edu.au/students/clinical-placement-checks/privacy.html

8 Satisfactory progress

(1) The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as set out in the provisions relating to progression in the Coursework Policy), students must pass the following clinical educational fieldwork/professional experience units of study which are critical to progression through the course:
   i. OCCP1100 Professional Practice I
   ii. OCCP2086 Professional Practice II
   iii. OCCP3061 Professional Practice IIIA
   iv. OCCP3065 Professional Practice IIIB
   v. OCCP4088 Professional Practice IV or OCCP4092 Professional Practice IVH
(2) Students must meet all requirements of clinical placement components of any unit of study undertaken. Performance in clinical placements will be monitored in accordance with the requirements specified in the unit of study outline, and any relevant University policy or provision.

(3) Students who have failed two units of study specified in Clause 8 (1) or twice failed the same unit of study identified in Clause 8 (1) will result in a student being asked to Show Good Cause as to why they should be allowed to re-enrol in their award course.

(4) Students must complete at least one core unit per semester where core units are available for study in the normal progression pattern. Students who fail a core unit of study must repeat the failed unit at the first opportunity.

(5) Students whose conduct or work towards their award is unsatisfactory, may, on the recommendation of the highest delegated authority, be refused permission by the Faculty to undertake or continue the clinical educational fieldwork/professional experience component of their award. The Faculty reserves the right not to place a student in any clinical placement or other professional experience setting in any instance where the performance, personal or professional conduct of the student does not meet the required standard of the professional organisation, regardless of the fact that the student may be enrolled in the unit of study.

(6) Candidates for honours must maintain a credit average throughout the program.

6.9 Award of the degree

(1) The Bachelor of Applied Science (Occupational Therapy) is awarded at either Pass or Honours level. The honours degree is awarded in classes ranging from First Class to Third Class according to the rules specified in the Resolutions of the Faculty of Health Sciences.

(2) The honours mark will be determined in integrated honours by the following calculation:
Final honours mark = 2/3*(FHS HWAM) + 1/3*(Yr 3/4 WAM), where the FHS HWAM is the average mark for honours units weighted as follows:
1 x BHSC3021 Honours A: Research Design
2 x BHSC4012 Honours B: Applied Research Skills
7 x BHSC4013 Honours C: Research Project
and the Yr 3/4 WAM is the average mark of all attempted Year 3 and Year 4 units of study, as specified in the Faculty table of units of study for the Bachelor of Applied Science (Occupational Therapy) Honours, excluding Professional Practice units.

(3) Honours is awarded in the following classes:

<table>
<thead>
<tr>
<th>Description</th>
<th>Mark Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
<td>80≥ honours mark ≤100</td>
</tr>
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<td>Second Class / (Division I)</td>
<td>75≥ honours mark &lt;80</td>
</tr>
<tr>
<td>Second Class / (Division II)</td>
<td>70≥ honours mark &lt;75</td>
</tr>
<tr>
<td>Third Class</td>
<td>65≥ honours mark &lt;70</td>
</tr>
<tr>
<td>Honours not awarded</td>
<td>mark &lt;65</td>
</tr>
</tbody>
</table>

(4) Candidates for the award of the Honours degree, who do not meet the requirements, will be awarded the pass degree if they have completed the requirements for that award.

7.10 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2019 2020 and students who commenced their candidature prior to 1 January, 2019 2020 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2019 2020 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2024 2025. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
BACHELOR OF APPLIED SCIENCE (PHYSIOTHERAPY)

Bachelor of Applied Science (Physiotherapy)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the "Coursework Rule"), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

1 Course codes

<table>
<thead>
<tr>
<th>Code</th>
<th>Course and stream title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BPASPHYS-06</td>
<td>Bachelor of Applied Science (Physiotherapy)</td>
</tr>
<tr>
<td>BPASPHYS6HON</td>
<td>Bachelor of Applied Science (Physiotherapy)(Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for these courses is full time only.

3 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Policy 2014.

4 Requirements for award

1. The units of study that may be taken for these courses are set out in the Faculty of Health Sciences Table of units of study for the Bachelor of Applied Science (Physiotherapy).
2. To qualify for the award of the pass degree, a candidate must successfully complete 192 credit points of units of study, comprising 174 credit points of core units of study and 18 credit points of elective units of study.

5 Requirements for the Honours degree

1. Honours is available to meritorious students as integrated honours. Students will who complete an alternative set of units of study in the last three semesters of the program. Admission to the Honours program is by permission of the Program coordinator, Program Coordinator and Associate Dean after the completion of second year. Admission is competitive and is based on performance during years 1 and 2 of the course. Performance is assessed based on the student's Weighted Average Mark (WAM), however, students will not normally be admitted to the honours program if they have failed a unit of study.
2. To qualify for the award of the honours degree a candidate must:
   (a) complete the requirements for the pass degree but include the alternative honours units of study listed in the Bachelor of Applied Science (Physiotherapy) Honours Table of units of study;
   (b) maintain a credit average or higher throughout the honours program.
(c) not fail a unit of study throughout their degree (any exceptions require Honours Committee approval).

### 6 Credit for previous study

1. The Coursework Policy specifies the general conditions for the granting of credit for previous study for these courses, except that credit will not be granted for recognised prior learning older than 5 years at the time of first enrolment.
2. Credit will not be granted for any unit of study for which a result of Terminating Pass or Pass (Concessional) has been awarded.

### 7 Requirements for students undertaking clinical placements

1. **Certificate of competency in CPR**
   Students must provide proof they hold an Australian current Cardiopulmonary (CPR) Certificate prior to attending their placement and that it is valid for the duration of the placement. Please refer to our University Placements web site for further information:

2. **Student clearance for clinical placements**
   The NSW Ministry of Health requires that all students obtain clearance in order to undertake clinical placements. This involves a criminal record check. Please refer to the University’s Placements web site for further information:

3. **Immunisation**
   Students must have evidence of vaccinations and immunisation against certain infectious diseases prior to undertaking clinical placements. The requirements are consistent with Australian public health policy and NHMRC guidelines. Please refer to the University’s Placements web site for further information:
   [https://sydney.edu.au/students/clinical-placement-checks/vaccinations.html](https://sydney.edu.au/students/clinical-placement-checks/vaccinations.html)

4. **Working with Children check**
   Students undertaking ‘child-related’ placements as part of their course are subject to the requirements of the NSW Child Protection (Working with Children) Act 2012 and the Working with Children Procedures 2014. For further information: [https://sydney.edu.au/students/working-with-children.html](https://sydney.edu.au/students/working-with-children.html)

5. **NSW Health Records and Information Privacy Act (2002)**
   Students must familiarise themselves with the content of the NSW Health Privacy Management Plan and comply with the NSW Ministry of Health Code of Conduct, NSW Health Records and Information Privacy Act 2002 and Privacy and Personal Information Protection Act 1998. Please refer to the University’s Placements web site for further information:
   [https://sydney.edu.au/students/clinical-placement-checks/privacy.html](https://sydney.edu.au/students/clinical-placement-checks/privacy.html)

### 8 Satisfactory progress

1. The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as set out in the provisions relating to progression in the Coursework Policy), students must pass the following clinical educational fieldwork/professional experience units of study which are critical to progression through the course:
   i. PHTY2063 Clinical Practicum A
   ii. PHTY3083 Clinical Practicum B
   iii. PHTY3085 Clinical Practicum C
   iv. PHTY4222 Clinical Practicum D
   v. PHTY4223 Clinical Practicum E

2. Students must meet all requirements of clinical placement components of any unit of study undertaken. Performance in clinical placements will be monitored in accordance with the requirements specified in the unit of study outline, and any relevant University policy or provision.

3. Students who have failed two units of study specified in Clause 6 (1) or twice failed the same unit of study identified in Clause 6 (1) will result in a student being asked to Show Good Cause as to why they should be allowed to re-enrol in their award course.
(4) Students must complete at least one core unit per semester where core units are available for study in the normal progression pattern. Students who fail a core unit of study must repeat the failed unit at the first opportunity.

(5) Students whose conduct or work towards their award is unsatisfactory, may, on the recommendation of the highest delegated authority, be refused permission by the Faculty to undertake or continue the clinical educational fieldwork/professional experience component of their award. The Faculty reserves the right not to place a student in any clinical placement or other professional experience setting in any instance where the performance, personal or professional conduct of the student does not meet the required standard of the professional organisation, regardless of the fact that the student may be enrolled in the unit of study.

(6) Candidates for honours must maintain a credit average throughout the program.

69 Award of the degree

(1) The Bachelor of Applied Science (Physiotherapy) is awarded at either Pass or Honours level. The honours degree is awarded in classes ranging from First Class to Third Class according to the rules specified in the Resolutions of the Faculty of Health Sciences.

(2) The honours mark will be determined in integrated honours by the following calculation:

\[
\text{Final honours mark} = \frac{2}{3}(\text{FHS HWAM}) + \frac{1}{3}(\text{Yr 3/4 WAM}),
\]

where the FHS HWAM is the average mark for honours units weighted as follows:

- 1 x BHSC3021 Honours A: Research Design
- 2 x BHSC4012 Honours B: Applied Research Skills
- 7 x BHSC4013 Honours C: Research Project

and the Yr 3/4 WAM is the average mark of all attempted Year 3 and Year 4 units of study, as specified in the Faculty table of units of study for the Bachelor of Applied Science (Physiotherapy), excluding Practicum and Clinical Placement units.

(3) Honours is awarded in the following classes:

<table>
<thead>
<tr>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>First Class</td>
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</tbody>
</table>

(4) Candidates for the award of the Honours degree who do not meet the requirements, will be awarded the pass degree if they have completed the requirements for that award.

10 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2019 and students who commenced their candidature prior to 1 January, 2019 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2019 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2025. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
BACHELOR OF APPLIED SCIENCE (SPEECH PATHOLOGY)

Bachelor of Applied Science (Speech Pathology)

These resolutions must be read in conjunction with applicable University By-laws, Rules and policies including (but not limited to) the University of Sydney (Coursework) Rule 2014 (the "Coursework Rule"), the Coursework Policy 2014, the Resolutions of the Faculty, the University of Sydney (Student Appeals against Academic Decisions) Rule 2006 (as amended), the Academic Honesty in Coursework Policy 2015 and the Academic Honesty Procedures 2016. Up to date versions of all such documents are available from the Policy Register: http://sydney.edu.au/policies.

Course resolutions

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<tbody>
<tr>
<td>BPASSPPA-06</td>
<td>Bachelor of Applied Science (Speech Pathology)</td>
</tr>
<tr>
<td>BPASSPPA6HON</td>
<td>Bachelor of Applied Science (Speech Pathology)(Honours)</td>
</tr>
</tbody>
</table>

2 Attendance pattern

The attendance pattern for these courses is full time or part time according to candidate choice.

3 Admission to candidature

Admission to this course is on the basis of a secondary school leaving qualification such as the NSW Higher School Certificate (including national and international equivalents), tertiary study or an approved preparation program. English language requirements must be met where these are not demonstrated by sufficient qualifications taught in English. Special admission pathways are open for mature aged applicants who do not possess a school leaving qualification, educationally disadvantaged applicants and for Aboriginal and Torres Strait Islander people. Applicants are ranked by merit and offers for available places are issued according to the ranking. Details of admission policies are found in the Coursework Policy 2014.

4 Requirements for award

(1) The units of study that may be taken for these courses are set out in the Faculty of Health Sciences Table of units of study for the Bachelor of Applied Science (Speech Pathology).

(2) To qualify for the award of the pass degree, a candidate must complete 192 credit points of units of study in the order prescribed in the Table, including:

(a) 186 credit points of core units; and

(b) 6 credit points of elective units, chosen from the list of elective units in the Table.

5 Requirements for the Honours degree

(1) Honours is available to meritorious students who will complete an alternative set of units in the last three semesters of the program. Admission to the Honours program is by permission of the program coordinator and Associate Dean after the completion of second year. Admission is competitive and is based on performance during years 1 and 2 of the course. Performance is assessed based on the student’s Weighted Average Mark (WAM), however, students will not normally be admitted to the honours program if they have failed a unit of study.
To qualify for the award of the honours degree a candidate must:

(i) complete the requirements for the pass degree but include the alternative honours units of study listed in the Bachelor of Applied Science (Speech Pathology) Honours Table of units of study.

(ii) maintain a credit average or higher throughout the honours program.

(iii) not fail a unit of study throughout their degree (any exceptions require Honours Committee approval).

6 Credit for previous study

(1) The Coursework Policy specifies the general conditions for the granting of credit for previous study for these courses, except that credit will not be granted for recognised prior learning older than 5 years at the time of first enrolment.

(2) Credit will not be granted for any unit of study for which a result of Terminating Pass or Pass (Concessional) has been awarded.

7 Requirements for students undertaking clinical placements

(1) Certificate of competency in CPR
Students must provide proof they hold an Australian current Cardiopulmonary (CPR) Certificate prior to attending their placement and that it is valid for the duration of the placement. Please refer to our University Placements web site for further information:

https://sydney.edu.au/students/clinical-placement-checks/first-aid.html

(2) Student clearance for clinical placements
The NSW Ministry of Health requires that all students obtain clearance in order to undertake clinical placements. This involves a criminal record check. Please refer to the University’s Placements web site for further information:

https://sydney.edu.au/students/clinical-placement-checks/criminal-record-check.html

(3) Immunisation
Students must have evidence of vaccinations and immunisation against certain infectious diseases prior to undertaking clinical placements. The requirements are consistent with Australian public health policy and NHMRC guidelines. Please refer to the University’s Placements web site for further information:

https://sydney.edu.au/students/clinical-placement-checks/vaccinations.html

(4) Working with Children check
Students undertaking ‘child-related’ placements as part of their course are subject to the requirements of the NSW Child Protection (Working with Children) Act 2012 and the Working with Children Procedures 2014. For further information:


(5) NSW Health Records and Information Privacy Act (2002)
Students must familiarise themselves with the content of the NSW Health Privacy Management Plan and comply with the NSW Ministry of Health Code of Conduct, NSW Health Records and Information Privacy Act 2002 and Privacy and Personal Information Protection Act 1998. Please refer to the University’s Placements web site for further information:

https://sydney.edu.au/students/clinical-placement-checks/privacy.html

8 Satisfactory progress

(1) The Faculty will monitor students for satisfactory progress towards the completion of their award course. In addition to the common triggers used to identify students not meeting academic progression requirements (as set out in the provisions relating to progression in the Coursework Policy), students must pass all Introductory Practice, Intermediate Clinic and Advanced Practice units of study. These units are critical to progression through the course.

(2) Students must meet all requirements of clinical placement components of any unit of study undertaken. Performance in clinical placements will be monitored in accordance with the requirements specified in the unit of study outline, and any relevant University policy or provision.

(3) Students who have failed two units of study specified in Clause 8 (1) or twice failed the same unit of study identified in Clause 8 (1) will result in a student being asked to Show Good Cause as to why they should be allowed to re-enrol in their award course.
(4) Students must complete at least one core unit per semester where core units are available for study in the normal progression pattern. Students who fail a core unit of study must repeat the failed unit at the first opportunity.

(5) Students whose conduct or work towards their award is unsatisfactory, may, on the recommendation of the highest delegated authority, be refused permission by the Faculty to undertake or continue the clinical educational fieldwork/professional experience component of their award. The Faculty reserves the right not to place a student in any clinical placement or other professional experience setting in any instance where the performance, personal or professional conduct of the student does not meet the required standard of the professional organisation, regardless of the fact that the student may be enrolled in the unit of study.

6.9 Award of the degree

(1) The Bachelor of Applied Science (Speech Pathology) is awarded at either Pass or Honours level. The honours degree is awarded in classes ranging from First Class to Third Class according to the rules specified in the Resolutions of the Faculty of Health Sciences.

(2) The honours mark will be determined in integrated honours by the following calculation:

\[
\text{Final honours mark} = 2/3 \times \text{(FHS HWAM)} + 1/3 \times \text{(Yr 3/4 WAM)},
\]

where the FHS HWAM is the average mark for honours units weighted as follows:

- 1 x BHSC3021 Honours A: Research Design
- 2 x BHSC4012 Honours B: Applied Research Skills
- 7 x BHSC4013 Honours C: Research Project

and the Yr 3/4 WAM is the average mark of all attempted Year 3 and Year 4 units of study, as specified in the Faculty table of units of study for the Bachelor of Applied Science (Speech Pathology), excluding Introductory Practice, Intermediate Clinic and Advanced Practice units of study.

(3) Honours is awarded in the following classes:

<table>
<thead>
<tr>
<th>Description</th>
<th>Mark Range</th>
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<tbody>
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<td>First Class</td>
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(4) Candidates for the award of the Honours degree, who do not meet the requirements, will be awarded the pass degree if they have completed the requirements for that award.

7.10 Transitional provisions

(1) These resolutions apply to students who commenced their candidature after 1 January, 2019 2020 and students who commenced their candidature prior to 1 January, 2019 2020 who elect to proceed under these resolutions.

(2) Candidates who commenced prior to 1 January, 2019 2020 may complete the requirements in accordance with the resolutions in force at the time of their commencement, provided that the requirements are completed by 1 January, 2024 2025. The Faculty may specify a later date for completion or specify alternative requirements for completion of candidatures that extend beyond this time.
RECOMMENDATION

That the Undergraduate Studies Committee approves the proposal to undertake an exploration of the admission requirements for Honours with the view to get more commonality across faculties where this is compatible with disciplinary needs.

EXECUTIVE SUMMARY

Admission requirements for Honours can vary markedly from one faculty to another. Under the new curriculum, honours will be predominantly offered as an embedded component within the combined Bachelor of Advanced Studies, a degree designed to facilitate interdisciplinary study. The lack of commonality between admission requirements may negatively impact the student experience while also risking errors in advice given to students as a result of the lack of a single source of truth for admission to Honours and adding to the workload of the Student Administration Services (SAS) teams in charge of reviewing students’ application. While disciplinary needs may account for some of these differences, it may be possible to synchronise others.

The Education Portfolio proposes to review and consolidate Honours admission requirements, identifying commonalities across faculties and, where appropriate for the discipline, bring admission requirements into alignment. If this approach is approved by the Undergraduate Studies Committee (USC), the Portfolio will organise a series of meetings with faculties and relevant teams within SAS during the second half of 2019. The Portfolio will report back its findings, and if applicable an implementation plan for standardisation for 2021, to USC and the Academic Board by the end of 2019.

BACKGROUND

Meritorious students enrolled in a Bachelor degree may undertake an Honours component which requires 36 – 48 credit points at 4000-level or higher including an Honours research project of 12 – 36 credit points.

Prior to the introduction of the new curriculum in 2018, Honours was offered either as an appended degree, where the component is undertaken over 48 credit points by eligible students after they have met the course requirements for their bachelor degree (without honours) or as an integrated component within an award of 192 credit points or higher. Under the new curriculum, students wishing to undertake Honours in liberal studies and certain specialist degrees will enrol in the combined Bachelor of Advanced Studies, where Honours is offered as an embedded component in the fourth year of the degree. The Bachelor of Advanced Studies will also become available in 2020 as a standalone degree for returning or transferring students wishing to undertake an Honours component.

Admissions requirements for Honours are set out in Part 19 of the Coursework Policy 2014 (Attachment 1) and the relevant degree resolutions. Students must, at a minimum achieve a WAM of 65 calculated over at least 48 credit points (excluding 1000 level units) and meet additional requirements as specified in the course resolutions by the faculty (in approved cases students may be admitted to an honours award on entry to a degree). Currently, the WAM and additional requirements can differ markedly from one faculty to another. For example, in the Faculty of Arts and Social Sciences (FASS), students must obtain an average mark (calculated on the best six to eight senior specialisation units) of at least 70, have completed two majors, have
approval from a supervisor/coordinator and meet any requirements set by the relevant department or school. In Science, students must demonstrate an average mark (calculated on selected units of study) of at least 65, have completed one major, have approval from a supervisor/coordinator and meet any requirements set by the relevant department or school.

ISSUES

1. Poor student experience
The lack of consistency for Honours admission across faculties may make it difficult for students to plan their studies in order to be able to apply for Honours in their chosen area of specialisation. Additionally, the differences in calculating the average mark between faculties may make it difficult for them to know if they have the required marks to enter the component. This is likely to become more prominent as the appended Honours degree is phased out in favour of the embedded Honours within the combined Bachelor or Advanced Studies. The Bachelor of Advanced Studies was designed to encourage interdisciplinarity, including the ability to take honours in the second major. Different admission requirements may skew their choice towards a particular Honours specialisation or mean they miss out on honours due to lack of adequate prior information.

2. Difficulty to have a single source of truth
Because there are no standard admission requirements to Honours and individual departments often impose additional entry requirements, it is difficult to identify a single source of truth that informs students about how they can plan and apply for Honours. The information for admission into Honours is currently scattered in different locations, including Canvas, Sydney Courses, and the current student and faculty websites. This increases the potential for error and the risk that students receive the wrong information about admission requirements. It also leads to a poor experience for current students interested in pursuing Honours as they may find conflicting information.

3. Increased workload for Student Administration Services
Relevant teams within SAS check Honours applications for eligibility and calculate the average mark before forwarding the application to the relevant faculty. The differences in calculating average marks between faculties and potential additional requirements significantly increases the workload of the teams involved in this pre-assessment. In particular, identifying the eligible units to calculate the average mark can involve a great deal of research or cross-referencing work.

IMPLEMENTATION

The Education portfolio is proposing an exploration of the admission requirements for Honours to try and identify commonalities across faculties. The aim is to group honours courses with comparable admission criteria, review special conditions and create more coherent advice to students based on a single source of truth.

If this approach is approved by USC, the Policy and Projects team within the portfolio will organise a series of consultation meetings with faculties. In a first instance, FASS, the Faculty of Science and the Sydney Business School will be consulted with a view to broaden to the rest of University later in the year. The consultation process will also involve the Academic Model Team and other relevant units within SAS.

The Policy and Project team will report back the outcomes of this exploratory work to USC and the Academic Board by the end of 2019. If applicable, the team will also propose an implementation plan for standardising Honours entry requirements by 2021.

ATTACHMENTS

PART 19  AWARDS WITH HONOURS

93  Admission to an award course with honours

(1)  On the recommendation of the relevant Head of School or program director, an Associate Dean may admit a student to an appended honours course, if the student has:

(a)  met the requirements for a pass degree in the course;
(b)  achieved a weighted average of at least 65, calculated from at least 48 credit points of undergraduate study (excluding any 1000-level units if the course is available on a full-time basis to high school graduates); and
(c)  met any additional requirements set by the faculty resolutions or award course resolutions for admission to honours in the course.

(2)  On the recommendation of the relevant Head of School or program director, an Associate Dean may admit a student to an integrated honours course:

(a)  if the student has:

(i)  met the requirements for a pass degree in the course;
(ii)  achieved a weighted average of at least 65, calculated from at least 48 credit points of undergraduate units of study (excluding any 1000-level units if the course is available on a full-time basis to high school graduates); and
(iii)  met any additional requirements set out by the faculty resolutions or award course resolutions; or

(b)  from the commencement of the award course if:

(i)  the Academic Board has approved the award course as one that meets the learning outcomes of an AQF Level 8 honours qualification; and
(ii)  the award course resolutions incorporate explicit requirements for completion of the award course that are consistent with the awarding of honours as prescribed in this policy.

(3)  On the recommendation of the relevant Heads of Schools or program directors of faculties that offer and administer the proposed honours courses, an Associate Dean may admit a student to honours or double honours in a combined degree with the Bachelor of Advanced Studies if the student has:

(a)  completed:

(i)  144 credit points in the combined degree program;
(ii)  a Liberal Studies undergraduate degree program at the University; or
(iii)  a program of study deemed by the relevant Heads of Schools or program directors to be the equivalent of such study;

(b)  achieved a weighted average mark of at least 65, as specified in the award course resolutions, in the first three years (144 credit points) of the combined degree;

(c)  completed:

(i)  requirements for a major in the intended area of honours specialisations; or
(ii)  study of equivalent depth in the intended area as set out in the award course resolutions; and
94 Principles for the award of honours

The principles for the University’s offering degrees with honours are:

(a) the award of honours is reserved to indicate special proficiency;
(b) the University offers courses leading to a degree with honours to provide research training opportunities to students who demonstrate special proficiency and the ability to undertake further study and research within a discipline;
(c) a course leading to a degree with honours is intended to attract and stimulate students of high ability;
(d) honours awards are in classes, to recognise and reward outstanding academic ability;
(e) an honours course:
   (i) will provide the foundations of research training within the relevant discipline; and
   (ii) will have an identifiable, discipline-specific individual research, scholarly or creative component that is allocated at least 12 credit points; and
(f) the assessment tasks for research units of study will comprise, at least in part, a dissertation.

95 Qualifying for an award with honours

(1) To qualify for an award with honours, a student must meet the requirements set out in the faculty resolutions and award course resolutions.

(2) The award of a degree with honours, and the grade of honours awarded, will be assessed and calculated according to two mechanisms:

(a) for appended honours and for honours taken as an embedded component in a combined degree with the Bachelor of Advanced Studies - by an honours mark; or
(b) for integrated honours - by a grade average calculated across at least 48 credit points of study.

(3) Each faculty will publish the grading systems and criteria for the award of honours in that faculty.

96 Determining honours awards for appended honours and integrated honours (using a 48+ credit point average)

(1) This clause applies to:
(a) an appended honours course; and

(b) an integrated honours course where, under the award course resolutions, the conferral of the degree with honours, and the class of honours, is determined using a mark calculated across units of study attracting at least 48 credit points but less than 96 credit points.

(2) A student who achieves a mark within a range set out in the following table is to be awarded honours in the class set out in the table for that range.

<table>
<thead>
<tr>
<th>Item</th>
<th>A student who achieves an honours mark in the range …</th>
<th>will be awarded honours …</th>
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<tbody>
<tr>
<td>1</td>
<td>80 ≤ honours mark ≤ 100</td>
<td>First Class</td>
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<tr>
<td>2</td>
<td>75 ≤ honours mark &lt; 80</td>
<td>Second Class / Division 1</td>
</tr>
<tr>
<td>3</td>
<td>70 ≤ honours mark &lt; 75</td>
<td>Second Class / Division 2</td>
</tr>
<tr>
<td>4</td>
<td>65 ≤ honours mark &lt; 70</td>
<td>Third Class</td>
</tr>
</tbody>
</table>

(3) A student who achieves a mark of less than 65 is not awarded honours.

97 Determining honours awards for integrated honours (using a 96+ credit point average)

(1) This clause applies to an integrated honours course where, under the award course resolutions, the conferral of the degree with honours, and the class of honours, is determined using an honours mark calculated across units of study that together have at least 96 credit points.

(2) A student who achieves an honours mark within a range set out in the following table is to be awarded honours in the class set out in the table for that range.

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<tr>
<td>4</td>
<td>50 ≤ honours mark &lt; 65</td>
<td>Third Class</td>
</tr>
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</table>

(3) The award course resolutions for a course may require a student to achieve higher honours marks for particular classes of honours.

(4) A student who achieves a mark of less than 65 may be awarded Third Class honours where this has been specified as available under the course resolutions.

97A Determining honours awards on the basis of an embedded honours component in a combined degree with the Bachelor of Advanced Studies

(1) This clause applies to honours taken as an embedded component in a combined degree with the Bachelor of Advanced Studies.
Where a student is undertaking a combined degree with the Bachelor of Advanced Studies, the student may be awarded the combined degree with honours on the basis of completion of anhonours component embedded within the combined degree.

The requirements for embedded honours in a combined degree with the Bachelor of Advanced Studies will be specified in the combined award course resolutions, and will require the completion of an honours component comprising:

(a) 36-48 credit points of 4000-level work at honours level, including anhonours research project of 12–36 credit points included in the 4000-level work; and

(b) honours coursework of 12-36 credit points.

A student may be awarded double honours in a combined degree with the Bachelor of Advanced Studies on completion of a second honours component.

The requirements for double honours in a combined degree with the Bachelor of Advanced Studies will be the completion of:

(a) 36-48 credit points as set out in subclause 97A(3); and

(b) the requirements for the combined degree as set out in the award course resolutions.

The honours mark will be:

(a) calculated according to a method specified in the faculty or school resolutions of the faculty or school offering the honours course; and

(b) based on results from 36-48 credit points of work as specified in subclause 97A(3).

A student who achieves an honours mark within a range set out in the following table is to be awarded honours in the class set out in the table for that range.

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</tr>
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A student who achieves a mark of less than 65 is not awarded honours.

The honours mark for a student in a combined degree with the Bachelor of Advanced Studies will be determined by the faculty that administers the honours course in the discipline in which it is taken. The faculty administering the student’s candidature will award honours on the basis of the mark determined by the faculty administering the honours course.

Where a student enrolled in a combined degree with the Bachelor of Advanced Studies is admitted to and completes honours requirements, the name of the honours component would replace the major indicated in brackets next to the appropriate degree in the nomenclature for the combined degree.
(a) Where the completed honours component is normally available in the partner degree to the Bachelor of Advanced Studies the nomenclature for the combined award should indicate the honours component in brackets attached to the partner degree as in the following example: Bachelor of Science (Mathematics Honours) / Bachelor of Advanced Studies (Philosophy).

(b) Where the completed honours component is not normally available in the partner degree to the Bachelor of Advanced Studies, the nomenclature for the combined award should indicate the honours component in brackets attached to the Bachelor of Advanced Studies as in the following example: Bachelor of Science (Mathematics) / Bachelor of Advanced Studies (Philosophy Honours).

(c) Where double honours is completed, the nomenclature for the combined award should indicate the honours component in brackets attached to both awards as in the following example: Bachelor of Science (Mathematics Honours) / Bachelor of Advanced Studies (Philosophy Honours).
Non-Confidential

<table>
<thead>
<tr>
<th>Author</th>
<th>Associate Professor Tony Masters (Chair, Academic Board)</th>
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<tbody>
<tr>
<td>Reviewer/Approver</td>
<td>Associate Professor Tony Masters (Chair, Academic Board)</td>
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<tr>
<td>Proposal / Paper Title</td>
<td>Academic Board Emerging Risk Discussion</td>
</tr>
<tr>
<td>Purpose</td>
<td>To seek feedback from the Undergraduate Studies Committee on the presentation Academic Board Emerging Risk</td>
</tr>
<tr>
<td>Proposal Presenter</td>
<td>Associate Professor Tony Masters (Chair, Academic Board)</td>
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</tbody>
</table>

RECOMMENDATION

That the Undergraduate Studies Committee discuss and provide feedback on the Academic Board Emerging Risk Discussion presentation, as provided by the Chair, Academic Board.

EXECUTIVE SUMMARY

The University's Academic Board and Risk Management team have been working together to identify risks of the Academic Board. Based on observations of emerging risk trends in the higher education sector, we have put together potential risks and seek insights of the members of the Board on the risk trend and mitigation status.

ATTACHMENTS

Attachment 1 – Academic Board Emerging Risk presentation
Academic Board
Emerging Risk Discussion

June 2019

Academic Board & Risk Management
Agenda

The University’s Academic Board and Risk Management team have been working together to identify risks of the Academic Board. Based on observations of emerging risk trends in the higher education sector, we have put together potential risks and seek insights of the members of the Board on the risk trend and mitigation status.

Agenda of today’s presentation is:

– Understanding risk
– Identifying your risk
– Open discussion
– Next steps
What is risk?

Risk is not only about uncertainty …

A RISK is ANYTHING that may affect the achievement of an organisation's OBJECTIVES

It is not just about the UNCERTAINTY that surrounds future events…

…but the POSSIBILITY of an ADVERSE outcome

Risk can also be an opportunity …

… a RISK that may HELP in the achievement of objectives
Risk identification: Academic Board's objectives

The Academic Board has the principal responsibility to encourage and maintain the highest standards in teaching, scholarship and research and to safeguard the academic freedom of the University.

The Academic Board is also responsible for:

- Overseeing the development of all academic activities of the University
- Formulating and reviewing policies, guidelines and procedures in relation to academic matters
- Playing an active role in assuring the quality of teaching, scholarship and research in the University

To be confident that the policy structures properly sustain academic quality assurance and are appropriate to the University's needs, the Board monitors their implementation and effectiveness.
Risk identification: A Risk Universe approach

Undergraduate Studies Committee
25 June 2019

Item 5.2 AB Risk Discussion
Page 6 of 8
## Risk discussion: Emerging risk trends

<table>
<thead>
<tr>
<th>#</th>
<th>Causes</th>
<th>Potential Risk</th>
<th>Controls</th>
<th>Trend</th>
<th>Mitigation Status</th>
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<tbody>
<tr>
<td>1</td>
<td>• Academic units enter into teaching/research arrangements with 3rd party without consulting the Board&lt;br&gt;• Lack of awareness among academic units&lt;br&gt;• Lack of resources for the Board to police everything</td>
<td>Failure to provide education/research expected by an external provider</td>
<td>• Learning and Teaching Policy&lt;br&gt;• Ongoing review and approval of course/curriculum resources</td>
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<td>• Effectiveness of different admission pathways is questionable&lt;br&gt;• Course delivery deviates from the original course plan, potentially impacting the accreditation requirements&lt;br&gt;• Lack of end to end assurance</td>
<td>Inability to realise our learning and graduate outcomes expected</td>
<td>• Ongoing and regular review and monitoring of admission pathway providers&lt;br&gt;• Periodic reviews of the degree/course/program&lt;br&gt;• Review of the student survey review outcomes</td>
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<td>3</td>
<td>• Inconsistent standards across Academic Units&lt;br&gt;• Conflicts of interest&lt;br&gt;• Increasing pressure on timely completion of PhD</td>
<td>Inconsistent application of our assessment standards by academic units</td>
<td>• Annual course monitoring&lt;br&gt;• Audit&lt;br&gt;• Compliance reviews</td>
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<td>• Difficulty in ensuring all the voices are heard&lt;br&gt;• Lack of resources to review and monitor all areas of the Board’s roles and powers&lt;br&gt;• Lack of accountability by the sub-committees&lt;br&gt;• Sustainability and effectiveness of the current governance model is questionable</td>
<td>Inability to comply with the University of Sydney (AB) Rule 2017</td>
<td>• Succession planning &amp; knowledge transfer</td>
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<td>5</td>
<td>• Increasing number of academic dishonesty and misconduct cases</td>
<td>Number of unaddressed cheating cases becomes unacceptable to the University</td>
<td>• Office of Educational Integrity and Associate Deans (Education&lt;br&gt;• Educational integrity coordinators&lt;br&gt;• Academic Honesty Procedures</td>
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<td>6</td>
<td>• High levels of reuse of assignments by unit of study coordinators&lt;br&gt;• Failure to detect, report and investigate instances of possible contract cheating</td>
<td>Number of contract cheating cases exceeds our ability to address cheating cases</td>
<td>• Collaborative and scaled monitoring of the use of the University’s IP, venues and the contract cheating companies&lt;br&gt;• Investigation procedures</td>
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Next steps: Building your risk profile

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