

# Exposure to teaching about sustainability in initial teacher education programs 2020 – 2022

University of Melbourne

Dr Jeana Kriewaldt and Dr Lucy Robertson

Melbourne Graduate School of Education, University of Melbourne

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## PURPOSE

This report outlines opportunities for exposure to teaching about sustainability in the Master of Teaching (MTeach) and Graduate Diploma in Early Childhood courses at MGSE, based on recommended course structures and subjects in the 2022 University handbook as of September 2022. The MEd is not a teaching qualification and is not included.

## METHOD

For each course, the recommended course structure was examined to assess likely student exposure based on core subjects and any choices regarding their learning area and foundation elective (secondary), where applicable. The analysis used subject information for full time pathways. MTeach data for 2022 were compared with 2020 data.

Each subject was assigned to one of three possible groupings: (1) subjects with detailed focus on sustainability, (2) subjects where sustainability may be used as an example theme or cross-curricular focus, and (3) subjects that are unlikely to address sustainability. For example, in MTeach Secondary the subjects 'EDUC91102 Learning Area Environmental Science 1' and 'EDUC91119 Learning Area Visual Arts and Design A1' are mapped to *detailed focus* as multiple sessions are dedicated to teaching about sustainability, the subjects 'EDUC91189 Foundations: Mathematics Teaching' and 'EDUC91181 Promoting Wellbeing in Secondary Schools' fall under *may be used as example* because a sustainability context may be used when discussing the subject content in one or more sessions, while the subjects 'EDUC91122 Literacies, Languages, and Learners' and 'EDUC91182 Leadership in Schools' fall in the *unlikely to address* category as no sessions will touch on sustainability education.

Points were allocated to each subject to reflect the level of exposure.

This mapping was checked via consultation with relevant staff including course coordinators and subject coordinators where the handbook information was indistinct.

## RESULTS

### Sustainability in MTeach and Graduate Diploma in Early Childhood courses

In the MTeach course structure for students commencing in 2022, there are certain core subjects common across each of the Secondary, Primary, Early Childhood and Early Childhood and Primary courses. Firstly, all students undertake a set of 'Engaging and assessing learners' subjects specific to their course that includes placement, and these are all unlikely to address sustainability as they focus on pedagogy for assessment, managing diverse learning needs and classroom management. The subject "EDUC91047 First Nations in

Education” is undertaken by all MTeach students in their first semester, and this subject has a detailed focus on sustainability framed within Indigenous knowledge about sustainability and caring for Country. The final subject that is common to all courses is the Professional Learning Capstone, and this is unlikely to address sustainability unless individual students choose a related topic as the focus for their research.

Of the initial teacher education courses currently offered at MGSE, students undertaking the Graduate Diploma in Early Childhood have the greatest exposure to teaching about sustainability as all 7 core subjects have a detailed focus on sustainability, totalling to 200 points (Table 1). Within the MTeach courses MTeach Early Childhood contains the greatest ‘core’ exposure to detailed teaching about sustainability at 50 points, followed by MTeach Early Childhood and Primary and MTeach Primary with 25 points, while the MTeach Secondary has only one core subject with a detailed focus on sustainability (Table 1). Exposure to teaching about sustainability in core subjects has increased for all courses compared to exposure levels in 2020, with greatest gains in the MTeach Early Childhood and MTeach Early Childhood and Primary courses. The common subject ‘EDUC91047 First Nations in Education’ is responsible for many of these gains in the MTeach Primary and MTeach Secondary courses.

### **Comparison 2020 and 2022**

The exposure of students to sustainability teaching within most MTeach courses is less variable than was the case in 2020 due to removal of electives, specialised subjects and the ‘completion by research’ option. However, within the MTeach Secondary the degree of exposure to teaching about sustainability is highly influenced by student choice regarding their learning areas and foundational elective. Students select two learning areas and complete 3 subjects per learning area, as well as one foundation elective subject. There are five learning areas offering a detailed focus on sustainability, eleven learning areas where use sustainability as a theme (noting that two of these have 2 subjects with use as theme and 1 as unlikely to address), and twelve learning areas that are unlikely to address sustainability. Regarding the eight foundation electives offered, one has a detailed focus on sustainability, five may use sustainability as an example and two are unlikely to address sustainability. This means that currently an MTeach Secondary student with most exposure may complete 100 points of detailed focus, 12.5 points of use as example and 87.5 points of unlikely to address subjects, while another with least exposure could complete 12.5 points of detailed focus, 12.5 points of use as example and 175 points of unlikely to address subjects (Table 2b). This variability has lessened compared to in 2020 when students with most exposure completed 62.5 points of detailed focus, 12.5 points of use as example and 125 points of unlikely to address subjects and those with least exposure could complete all 200 points in unlikely to address sustainability subjects (Table 2a).

Focussing on the MTeach Primary course, the students with most exposure to sustainability teaching in 2020 due to their specialised pathway and associated elective choice completed 37.5 points of detailed focus, 50 points where use as example and 125 points of unlikely to address subjects, compared to the default 25 points detailed focus, 62.5 points use as example and 112.5 points unlikely to address in the 2022 course. Current students may be able to increase their exposure to 50 points detailed focus, 62.5 points use as example and 87.5 points of unlikely to address by selecting a sustainability focused research topic in Professional Learning Capstone, provided that is compatible with their specialisation and the subject requirements. This option may also apply for students in the MTeach Early Childhood, MTeach Early Childhood and Primary and MTeach Secondary course as well.

The details of the subjects contributing to a student’s exposure to sustainability teaching, based on course and specialisation option choices, are shown in Tables 1 to 7. For reference, the equivalent details for the 2020 MTeach courses are included in the appendix: Tables A1 to A4.

### **Sustainability in the Australian and Victorian Curricula**

The degree to which individual subjects focus on sustainability is partially influenced by the requirements of the Australian and Victorian Curricula (F-10 and VCE. At secondary school level aspects of sustainability are

touched on in Geography, Environmental Science, Health, Biology, Chemistry, Economics, Politics, Science, Digital Technologies and Design and Technologies Curricula and this influences the MGSE foundation elective and learning area subjects. For example, the new study design for VCE chemistry has an increased emphasis on sustainability, thus in 2022 the learning area Chemistry subjects sit under 'use an example' whereas in 2020 they sat under 'unlikely to address'. However, future efforts at MGSE should include considering how to increase the sustainability as an example theme across more core subjects, given that sustainability is a cross-curricula priority of the Victorian and Australian Curricula.

*"The concept of sustainability is fundamental for students to understand the ways environmental, social and economic systems interact to support and maintain human life. It allows them to critically examine the diversity of views and values that influence sustainable development. The curriculum also provides students with the opportunity to participate creatively and to see themselves as having the capacity to act in ways that will help to establish more sustainable ways of living."*

<https://victoriancurriculum.vcaa.vic.edu.au/overview/cross-curriculum-priorities>

Within the program, pre-service teachers may gain additional exposure to teaching about sustainability whilst on practicum placement within a school, kindergarten or childcare setting, however this will vary highly from student to student depending on the school, class level, and timing of placement relative to scheduled activities. This might be through focus units/inquiry, a school garden program, excursions, sustainability themed weeks or student club activities.

Table 1: Summary for the various initial teacher education courses, in 2020 (coursework) and 2022.

Course	Year	Tailored options	Subjects with detailed focus on sustainability			Subjects where may be used as theme/example			Subjects unlikely to address sustainability		
			Core	Electives	Learning area	Core	Electives	Learning area	Core	Electives	Learning area
			Number & total points	Number available & total points	Number available & total points	Number & total points	Number available & total points	Number available & total points	Number & total points	Number available & total points	Number available & total points
MTeach Early Childhood	2020	3 electives	1 [6.25]	1	Not applicable	3 [37.5]	10	Not applicable	10 [118.75]	15, incl 4 <sup>PB</sup>	Not applicable
MTeach Early Childhood and Primary	2020	None	1 [6.25]	None	Not applicable	6 [75.0]	None	Not applicable	14 [156.25]	None	Not applicable
MTeach Primary	2020	1 elective	2 [12.5]	0, 1 <sup>DC</sup> or 1 [0, 12.5]	Not applicable	6 [50.0]	0, 1 <sup>DC</sup> or 9 [0, 12.5]	Not applicable	13 [125.0]	0, 1 <sup>DC</sup> , 4 <sup>PB</sup> , 15 incl 4 <sup>PB</sup> . [0,12.5]	Not applicable
MTeach Secondary	2020	2 electives and 2 x 25 point learning areas	0 [0]	1 [0, 12.5]	3 areas [0, 25.0, 50.0]	0 [0]	9 [0, 12.5, 25.0]	14 areas [0, 25.0, 50.0]	11 [125]	17, incl 4 <sup>PB</sup> [0, 12.5, 25.0]	11 areas [0, 25.0, 50.0]
Graduate Diploma in Early Childhood	2022*	None	7 [200]	None	Not applicable	0 [0]	None	Not applicable	0 [0]	None	Not applicable
MTeach Early Childhood	2022	None	4 [50]	None	Not applicable	4 [50]	None	Not applicable	7 [100]	None	Not applicable
MTeach Early Childhood and Primary	2022	None	2 [25]	None	Not applicable	5 [62.5]	None	Not applicable	10 [137.5]	None	Not applicable
MTeach Primary	2022	None	2 [25]	None	Not applicable	5 [62.5]	None	Not applicable	8 [112.5]	None	Not applicable
MTeach Secondary	2022	1 elective and 2 x 37.5 point learning areas	1 [12.5]	1 [0, 12.5]	5 areas [0, 37.5, 75.0]	1 [12.5]	5 [0, 12.5]	9 areas for max 37.5 points and 2 areas for max 25 points [0, 25.0, 37.5, 50.0, 75.0]	6 [87.5]	2 [0,12.5]	12 areas for max 37.5 points and 2 areas for max 12.5 points [0, 12.5, 25.0, 37.5, 75.0]

[Notes: In 2020 MTeach Primary students undertook 1 elective that might be free choice, a directed choice for specialisation (<sup>DC</sup>); or place based (<sup>PB</sup>); \* The Graduate Diploma in Early Childhood commenced in 2021]

Table 2a: M Teach Secondary coursework pre-service teachers – exposure levels based on specialisations and elective choice in 2020

Degree of exposure	Tailored options	Subjects with detailed focus on sustainability			Subjects where may be used as theme/example			Subjects unlikely to address sustainability		
		Core	Electives	Learning area	Core	Electives	Learning area	Core	Electives	Learning area
		Number & total points	Number available & total points	Number available & total points	Number & total points	Number available & total points	Number available & total points	Number & total points	Number available & total points	Number available & total points
Most exposed	Chose 2 from learning areas where detailed focus and electives with detailed or theme focus	0 [0]	1 [0, 12.5]	3 areas (Environmental science, Humanities, or SOSE) [50.0]	0 [0]	9 [12.5, 25.0]	14 areas [0]	11 [125]	17, incl 4 <sup>PB</sup> [0]	11 areas [0]
Highly exposed	Chose 2 from learning areas where detailed focus and electives with theme or unlikely focus	0 [0]	1 [0]	3 areas (Environmental science, Humanities, or SOSE) [50.0]	0 [0]	9 [12.5, 25.0]	14 areas [0]	11 [125]	17, incl 4 <sup>PB</sup> [0, 12.5, 25.0]	11 areas [0]
	Chose 1 from learning areas with detailed focus, 1 from learning areas where used as theme and electives with detailed or theme focus	0 [0]	1 [0, 12.5]	3 areas (Environmental science, Humanities, or SOSE) [25.0]	0 [0]	9 [12.5, 25.0]	14 areas (Biology, Drama A, Drama B, Economics, English, Health, History, Mathematics, Media studies, Politics, TESOL, Visual arts and design, Visual arts and design (advanced)) [25.0]	11 [125]	17, incl 4 <sup>PB</sup> [0]	11 areas [0]
Moderately exposed	Chose 2 from learning areas where used as theme and electives with detailed or theme focus	0 [0]	1 [0, 12.5]	3 areas [0]	0 [0]	9 [12.5, 25.0]	14 areas (Biology, Drama A, Drama B, Economics, English, Health, History, Mathematics, Media studies, Politics, TESOL, Visual arts and design, Visual arts and design (advanced)) [50.0]	11 [125]	17, incl 4 <sup>PB</sup> [0]	11 areas [0]
	Chose 2 from learning areas where used as theme and electives with theme or unlikely focus	0 [0]	1 [0]	3 areas [0]	0 [0]	9 [12.5, 25.0]	14 areas (Biology, Drama A, Drama B, Economics, English, Health, History, Mathematics, Media studies, Politics, TESOL, Visual arts and design, Visual arts and design (advanced)) [50.0]	11 [125]	17, incl 4 <sup>PB</sup> [0, 12.5]	11 areas [0]

	Chose 1 from learning areas where used as theme, 1 from learning areas where unlikely to address, and electives with detailed or theme focus	0 [0]	1 [0, 12.5]	3 areas [0]	0 [0]	9 [12.5, 25.0]	14 areas (Biology, Drama A, Drama B, Economics, English, Health, History, Mathematics, Media studies, Politics, TESOL, Visual arts and design, Visual arts and design (advanced)) [25.0]	11 [125]	17, incl 4 <sup>PB</sup> [0]	11 areas (Accounting, Business management, Chemistry, Commerce & business studies, Languages, Legal studies, Music A, Music B, Physical education, Physics and Psychology) [25.0]
Least exposed	Chose 1 from learning areas where used as theme, 1 from learning areas where unlikely to address, and electives with unlikely focus	0 [0]	1 [0]	3 areas [0]	0 [0]	9 [0]	14 areas (Biology, Drama A, Drama B, Economics, English, Health, History, Mathematics, Media studies, Politics, TESOL, Visual arts and design, Visual arts and design (advanced)) [25.0]	11 [125]	17, incl 4 <sup>PB</sup> [25.0]	11 areas (Accounting, Business management, Chemistry, Commerce & business studies, Languages, Legal studies, Music A, Music B, Physical education, Physics and Psychology) [25.0]
	Chose 2 from learning areas where unlikely to address and electives with unlikely focus	0 [0]	1 [0]	3 areas [0]	0 [0]	9 [0]	14 areas [0]	11 [125]	17, incl 4 <sup>PB</sup> [25.0]	11 areas (Accounting, Business management, Chemistry, Commerce & business studies, Languages, Legal studies, Music A, Music B, Physical education, Physics and Psychology) [50.0]

Table 2b: M Teach Secondary coursework pre-service teachers – exposure levels based on specialisations and elective choice with revised course in 2022

Degree of exposure	Tailored options	Detailed focus on sustainability			May be used as theme/example			Unlikely to address sustainability		
		Core	Electives	Learning area	Core	Electives	Learning area	Core	Electives	Learning area
		Number & total points	Number available & total points	Number available & total points	Number & total points	Number available & total points	Number available & total points	Number & total points	Number available & total points	Number available & total points
Most exposed	Chose 2 from learning areas where detailed focus and foundation elective with detailed or theme focus	1 [12.5]	1 (Arts Teaching) [0, 12.5]	5 areas (Environmental science, Humanities, Humanities additional, Visual arts and design A, Visual arts and design B) [75.0]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points and 2 areas for max 25 points [0]	6 [87.5]	2 [0]	12 areas for max 37.5 points and 2 areas for max 12.5 points [0]
Highly exposed	Chose 2 from learning areas where detailed focus and foundation elective with theme or unlikely focus	1 [12.5]	1 [0]	5 areas (Environmental science, Humanities, Humanities additional, Visual arts and design A, Visual arts and design B) [75.0]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points and 2 areas for max 25 points [0]	6 [87.5]	2 (Languages Teaching, Science Teaching) [0,12.5]	12 areas for max 37.5 points and 2 areas for max 12.5 points [0]
	Chose 1 from learning areas where detailed focus and 1 from learning areas where use as theme and foundation elective with detailed or theme focus	1 [12.5]	1 (Arts Teaching) [0, 12.5]	5 areas (Environmental science, Humanities, Humanities additional, Visual arts and design A, Visual arts and design B) [37.5]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points (Biology, Chemistry, Economics, English, Health Education, History, Politics, Science, TESOL) and 2 areas for max 25 points (Drama A, Drama B) [25, 37.5]	6 [87.5]	2 [0]	12 areas for max 37.5 points and 2 areas for max 12.5 points [0,12.5]
Moderately exposed	Chose 2 from learning areas where use as theme, and foundation elective with detailed or theme focus	1 [12.5]	1 (Arts Teaching) [0, 12.5]	5 areas [0]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points (Biology, Chemistry, Economics, English, Health Education, History, Politics,	6 [87.5]	2 [0]	12 areas for max 37.5 points and 2 areas for max 12.5 points [0, 25]

							Science, TESOL) and 2 areas for max 25 points (Drama A, Drama B) [50.0, 75.0]			
	Chose 2 from learning areas where use as theme, and foundation elective with theme or unlikely focus	1 [12.5]	1 [0]	5 areas [0]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points (Biology, Chemistry, Economics, English, Health Education, History, Politics, Science, TESOL) and 2 areas for max 25 points (Drama A, Drama B) [50.0, 75.0]	6 [87.5]	2 (Languages Teaching, Science Teaching) [0,12.5]	12 areas for max 37.5 points and 2 areas for max 12.5 points [0, 25]
	Chose 1 from learning areas where used as theme, 1 from learning areas where unlikely to address, and foundation elective with detailed or theme focus	1 [12.5]	1 (Arts Teaching) [0, 12.5]	5 areas [0]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points (Biology, Chemistry, Economics, English, Health Education, History, Politics, Science, TESOL) and 2 areas for max 25 points (Drama A, Drama B) [25.0, 37.5]	6 [87.5]	2 (Languages Teaching, Science Teaching) [0,12.5]	12 areas for max 37.5 points (Accounting, Business Management, Commerce, Languages, Legal Studies, Mathematics, Media Studies, Music A, Music B, Physical Education, Physics, Psychology) and 2 areas for max 12.5 points (Drama A, Drama B) [37.5, 50.0]
Least exposed	Chose 2 from learning areas where unlikely to address and foundation elective with detailed or theme focus	1 [12.5]	1 (Arts Teaching) [0, 12.5]	5 areas [0]	1 [12.5]	5 (DigiTech, English Teaching, Health & Phys Ed Teaching, Humanities Teaching, Mathematics Teaching) [0, 12.5]	9 areas for max 37.5 points and 2 areas for max 25 points [0]	6 [87.5]	2 [0]	12 areas for max 37.5 points (Accounting, Business Management, Commerce, Languages, Legal Studies, Mathematics, Media Studies, Music A, Music B, Physical Education, Physics, Psychology) and 2 areas for max 12.5 points (Drama A, Drama B) [75.0]
	Chose 2 from learning areas where unlikely to address and foundation elective where unlikely to address	1 [12.5]	1 [0]	5 areas [0]	1 [12.5]	5 [0]	9 areas for max 37.5 points and 2 areas for max 25 points [0]	6 [87.5]	2 (Languages Teaching, Science Teaching) [12.5]	12 areas for max 37.5 points (Accounting, Business Management, Commerce, Languages, Legal Studies, Mathematics, Media Studies, Music A, Music B, Physical Education, Physics, Psychology) and 2 areas for max 12.5 points (Drama A, Drama B) [75.0]



## SUBJECT DETAILS FOR THE INITIAL TEACHER EDUCATION COURSES OFFERED BY MGSE IN 2022

Table 3: Subject details for Graduate Diploma in Early Childhood (all subjects are worth 12.5 points, or 25 points if indicated with #)

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core	EDUC91022 Multimodal Literacies EDUC91023 Equity, Diversity & Inclusive Practices EDUC91024 Professional Pedagogical Practices (P3) # EDUC91025 The Arts and Creative Pedagogies EDUC91026 Leadership, Advocacy, Activism & Ethics EDUC91027 STEM Learning Ecologies EDUC91028 Contemporary Issues in Early Childhood	0	0

Table 4: Subject details for Early Childhood (all subjects are worth 12.5 points, or 25 points if indicated with #)

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core	EDUC91047 First Nations in Education) EDUC91053 Diversity and Inclusion EDUC91060 Inquiry and Project Learning EDUC91061 STEM Learning in the Early Years	EDUC91049 Language, Literacy & Play-based Learning EDUC91052 Becoming Numerate in the Early Years EDUC91054 The Arts, Play and Young Children EDUC91057 Early Childhood Multimodal Literacies	EDUC91048 Engaging and Assessing Learners (EC) 1 EDUC91051 Engaging and Assessing Learners (EC) 2 EDUC91055 Engaging and Assessing Learners (EC) 3 EDUC91050 Children, Childhood and Families EDUC91056 Social and Emotional Wellbeing EDUC91058 Professional Learning Capstone (EC) # EDUC91059 Leadership, Ethics and Advocacy (EC)

Table 5: Subject details for Early Childhood and Primary (all subjects are worth 12.5 points, or 25 points if indicated with #)

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core	EDUC91072 Humanities Education: F to Year 6 EDUC91047 First Nations in Education	EDUC91063 Language and Literacy: Birth to 8 Years EDUC91069 Language & Literacy: F to Year 2 (ECP) EDUC91071 Language & Literacy: Years 3 to 6 (ECP) EDUC91064 Engaging Children in the Arts EDUC91067 Science in Early Childhood and Primary	EDUC91062 Engaging and Assessing Learners (ECP) 1 EDUC91065 Engaging and Assessing Learners (ECP) 2 EDUC91070 Engaging and Assessing Learners (ECP) 3 EDUC91075 Engaging and Assessing Learners (ECP) 4 EDUC91066 Numeracy: Birth to 8 Years EDUC91068 Being Healthy, Well and Active

			EDUC91073 Mathematics: Primary 1 EDUC91077 Mathematics: Primary 2 EDUC91074 Professional Learning Capstone (ECP)# EDUC91076 Leadership in Diverse Contexts
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Table 6: Subject details for Primary. (all subjects are worth 12.5 points, or 25 points if indicated with #)

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core	EDUC91047 First Nations in Education EDUC91091 Primary Humanities Education	EDUC91079 Language and Literacy: F to Year 2 EDUC91083 Language and Literacy: Years 3 to 6 EDUC91082 Learning In and Through Primary Arts EDUC91086 Mathematics Education: Primary 3 EDUC91089 Primary Science Education	EDUC91078 Engaging and Assessing Learners (Prim) 1 EDUC91081 Engaging and Assessing Learners (Prim) 2 EDUC91085 Engaging and Assessing Learners (Prim) 3 EDUC91080 Mathematics Education: Primary 1 EDUC91084 Mathematics Education: Primary 2 EDUC91087 Literacy Assessment and Learning EDUC91088 Professional Learning Capstone (Prim) # EDUC91090 Wellbeing, Health and Physical Education

Table 7: Subject details for Secondary. (all subjects are worth 12.5 points, or 25 points if indicated with #)

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core	EDUC91047 First Nations in Education	EDUC91181 Promoting Wellbeing in Secondary Schools	EDUC91092 Engaging and Assessing Learners (Sec) 1 EDUC91121 Engaging and Assessing Learners (Sec) 2 EDUC91151 Engaging and Assessing Learners (Sec) 3 EDUC91122 Literacies, Languages, and Learners EDUC91182 Leadership in Schools EDUC91152 Professional Learning Capstone (Sec) #
Foundation elective (choose 1)	EDUC91183 Foundations: Arts Teaching	EDUC91184 Foundations: DigiTech Teaching EDUC91185 Foundations: English Teaching EDUC91186 Foundations: Health & Phys Ed Teaching EDUC91187 Foundations: Humanities Teaching EDUC91189 Foundations: Mathematics Teaching	EDUC91188 Foundations: Languages Teaching EDUC91190 Foundations: Science Teaching
Learning area	EDUC91102 Learning Area Environmental Science 1 EDUC91132 Learning Area Environmental Science 2 EDUC91162 Learning Area Environmental Science 3	EDUC91094 Learning Area Biology 1 EDUC91124 Learning Area Biology 2 EDUC91154 Learning Area Biology 3	EDUC91093 Learning Area Accounting 1 EDUC91123 Learning Area Accounting 2 EDUC91153 Learning Area Accounting 3

<p>(choose 2 sequences of 3 subjects)</p>	<p>EDUC91105 Learning Area Humanities 1  EDUC91135 Learning Area Humanities 2  EDUC91165 Learning Area Humanities 3  EDUC91106 Learning Area Humanities Additional 1  EDUC91136 Learning Area Humanities Additional 2  EDUC91166 Learning Area Humanities Additional 3  EDUC91119 Learning Area Visual Arts and Design A1  EDUC91149 Learning Area Visual Arts and Design A2  EDUC91179 Learning Area Visual Arts and Design A3  EDUC91120 Learning Area Visual Arts and Design B1  EDUC91150 Learning Area Visual Arts and Design B2  EDUC91180 Learning Area Visual Arts and Design B3</p>	<p>EDUC91096 Learning Area Chemistry 1  EDUC91126 Learning Area Chemistry 2  EDUC91156 Learning Area Chemistry 3  EDUC91098 Learning Area Drama A1  EDUC91158 Learning Area Drama A3  EDUC91099 Learning Area Drama B1  EDUC91159 Learning Area Drama B3  EDUC91100 Learning Area Economics 1  EDUC91130 Learning Area Economics 2  EDUC91160 Learning Area Economics 3  EDUC91101 Learning Area English 1  EDUC91131 Learning Area English 2  EDUC91161 Learning Area English 3  EDUC91103 Learning Area Health Education 1  EDUC91133 Learning Area Health Education 2  EDUC91163 Learning Area Health Education 3  EDUC91104 Learning Area History 1  EDUC91134 Learning Area History 2  EDUC91164 Learning Area History 3  EDUC91115 Learning Area Politics 1  EDUC91145 Learning Area Politics 2  EDUC91175 Learning Area Politics 3  EDUC91117 Learning Area Science 1  EDUC91147 Learning Area Science 2  EDUC91177 Learning Area Science 3  EDUC91118 Learning Area TESOL 1  EDUC91148 Learning Area TESOL 2  EDUC91178 Learning Area TESOL 3</p>	<p>EDUC91095 Learning Area Business Management 1  EDUC91125 Learning Area Business Management 2  EDUC91155 Learning Area Business Management 3  EDUC91097 Learning Area Commerce 1  EDUC91127 Learning Area Commerce 2  EDUC91157 Learning Area Commerce 3  EDUC91128 Learning Area Drama A2  EDUC91129 Learning Area Drama B2  EDUC91107 Learning Area Languages 1  EDUC91137 Learning Area Languages 2  EDUC91167 Learning Area Languages 3  EDUC91108 Learning Area Legal Studies 1  EDUC91138 Learning Area Legal Studies 2  EDUC91168 Learning Area Legal Studies 3  EDUC91109 Learning Area Mathematics 1  EDUC91139 Learning Area Mathematics 2  EDUC91169 Learning Area Mathematics 3  EDUC91110 Learning Area Media Studies 1  EDUC91140 Learning Area Media Studies 2  EDUC91170 Learning Area Media Studies 3  EDUC91111 Learning Area Music A1  EDUC91141 Learning Area Music A2  EDUC91171 Learning Area Music A3  EDUC91112 Learning Area Music B1  EDUC91142 Learning Area Music B2  EDUC91172 Learning Area Music B3  EDUC91113 Learning Area Physical Education 1  EDUC91143 Learning Area Physical Education 2  EDUC91173 Learning Area Physical Education 3  EDUC91114 Learning Area Physics 1  EDUC91144 Learning Area Physics 2  EDUC91174 Learning Area Physics 3  EDUC91116 Learning Area Psychology 1  EDUC91146 Learning Area Psychology 2  EDUC91176 Learning Area Psychology 3</p>
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APPENDIX: SUBJECT DETAILS FOR THE INITIAL TEACHER EDUCATION COURSES OFFERED BY MGSE IN 2020

Table A1: Subject details for Early Childhood in 2020

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core – research pathway	EDUC90889 Scientific and environmental learning (6.25)	EDUC90705 Language and literacy learning in children (12.5) EDUC90899 Numeracy in early childhood (12.5) EDUC90563 Engaging children in the arts (12.5)	EDUC90895 Educational foundations (EC) (6.25) EDUC90898 Introduction to clinical practice (EC) (6.25) EDUC90897 Infant and toddler learning and development (12.5) EDUC90890 3 to 8 year olds learning & development (12.5) EDUC90891 Becoming a clinical practitioner (EC) (12.5) EDUC90896 Educational leadership (EC & Prim) (6.25) EDUC90892 Clinical teaching practice (EC) 1 (12.5) EDUC90893 Clinical teaching practice (EC) 2 (12.5) EDUC90894 Clinical teaching practice (EC) 3 (12.5) EDUC90419 Education research methodology (12.5) EDUC90558 Education research design (37.5)
Core – coursework	EDUC90889 Scientific and environmental learning (6.25)	EDUC90705 Language and literacy learning in children (12.5) EDUC90899 Numeracy in early childhood (12.5) EDUC90563 Engaging children in the arts (12.5)	EDUC90895 Educational foundations (EC) (6.25) EDUC90898 Introduction to clinical practice (EC) (6.25) EDUC90897 Infant & toddler learning & development (12.5) EDUC90890 3 to 8 year olds learning & development (12.5) EDUC90891 Becoming a clinical practitioner (EC) (12.5) EDUC90896 Educational leadership (EC & Prim) (6.25) EDUC90892 Clinical teaching practice (EC) 1 (12.5) EDUC90893 Clinical teaching practice (EC) 2 (12.5) EDUC90894 Clinical teaching practice (EC) 3 (12.5)

			EDUC91005 Professional learning capstone (EC) (25.0)
Electives (choose 1 if research or 3 if coursework)	EDUC90727 Teaching global perspectives	EDUC90972 Active pedagogies EDUC90493 Arts and artistry studio to classroom EDUC90425 Australian Indigenous education EDUC90261 Curriculum frameworks in the IB PYP EDUC90333 Introduction to the IB EDUC90794 Science in the integrated curriculum EDUC90974 Teaching critical and creative thinking EDUC90971 Teaching in, through and across the arts EDUC90915 Working with grammar in context	EDUC90609 Australian curriculum perspectives EDUC90859 Autism intervention EDUC90841 Comparative educational systems and context EDUC90940 Historical thinking EDUC90543 Languages for young learners EDUC90861 Leading mathematics across the school EDUC90504 Leadership in educational settings EDUC90913 Personalising learning with technology EDUC90842 Perspectives on childhood and youth EDUC90711 Physical education and pedagogy EDUC90916 Place based elective (alternative) EDUC90922 Place based elective (international) EDUC90919 Place based elective (indigenous) EDUC90923 Place based elective (rural/remote) EDUC90976 Positive learning environments

Table A2: Subject details for Early Childhood and Primary in 2020

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core – coursework	EDUC91003 Inquiry learning in the humanities (EC&P) (6.25)	EDUC90705 Language and literacy learning in children (12.5) EDUC90563 Engaging children in the arts (intensive, 12.5) EDUC90899 Numeracy in early childhood (12.5) EDUC90875 Literacy for the primary years (12.5) EDUC90876 Mathematics for the primary years (12.5) EDUC91001 Science technology digital and design (EC&P) (12.5)	EDUC90895 Educational foundations (EC) (6.25) EDUC90898 Introduction to clinical practice (EC) (6.25) EDUC90897 Infant and toddler learning and development (12.5) EDUC90890 3 to 8 year olds learning & development (12.5) EDUC90891 Becoming a clinical practitioner (EC) (12.5) EDUC90977 Diverse and inclusive classrooms (EC&P) (6.25) EDUC91002 Health and physical education (EC&P) (6.25) EDUC90896 Educational leadership (EC & Prim) (6.25)

			EDUC90892 Clinical teaching practice (EC) 1 (12.5) EDUC90893 Clinical teaching practice (EC) 2 (12.5) EDUC90894 Clinical teaching practice (EC) 3 (12.5) EDUC90987 Clinical teaching practice (EC&P) 4 (12.5) EDUC90988 Clinical teaching practice (EC&P) 5 (12.5) EDUC91004 Professional learning capstone (EC &P) (25.0)
Electives (none)	Not applicable	Not applicable	Not applicable

Table A3: Subject details for Primary in 2020.

Notes: <sup>DE</sup> directed elective for specialised pathway, may be replaced by place-based elective only; <sup>RE</sup> recommended elective for specialised pathway but student free to choose any elective including place-based; <sup>PBE</sup> can only replace directed elective

Subject type	Cohort (specialised pathway)	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core – research pathway	Arts, Health and physical education, Humanities, Languages	EDUC90373 Primary humanities education (6.25)	EDUC90367 Foundational English literacy (12.5) EDUC90377 Advanced English literacies (6.25) EDUC90887 Primary arts education 1 (6.25) EDUC90376 Science technology digital and design (12.5) EDUC90776 Primary mathematics education 3 (6.25)	EDUC90882 Educational foundations (Prim) (6.25) EDUC90881 Diverse and inclusive classrooms (Prim) (6.25) EDUC90885 Introduction to clinical practice (Prim) (6.25) EDUC90884 Integrating clinical practice (Prim) (6.25) EDUC90880 Becoming a clinical practitioner (Prim) (6.25) EDUC90778 Primary mathematics education 1 (12.5) EDUC90773 Primary mathematics education 2 (6.25) EDUC90378 Health and physical education (6.25) EDUC90777 Literacy assessment and learning (6.25) EDUC90877 Clinical teaching practice (Prim) 1 (12.5) EDUC90878 Clinical teaching practice (Prim) 2 (12.5) EDUC90879 Clinical teaching practice (Prim) 3 (12.5) EDUC90419 Education research methodology (12.5) EDUC90558 Education research design (37.5)
	Literacy	EDUC90373 Primary humanities education (6.25)	EDUC90367 Foundational English literacy (12.5) EDUC90377 Advanced English literacies (6.25) EDUC90887 Primary arts education 1 (6.25) EDUC90376 Science technology digital and design (12.5)	EDUC90882 Educational foundations (Prim) (6.25) EDUC90881 Diverse and inclusive classrooms (Prim) (6.25) EDUC90885 Introduction to clinical practice (Prim) (6.25)

		EDUC90776 Primary mathematics education 3 (6.25)	EDUC90884 Integrating clinical practice (Prim) (6.25) EDUC90880 Becoming a clinical practitioner (Prim) (6.25) EDUC90778 Primary mathematics education 1 (12.5) EDUC90773 Primary mathematics education 2 (6.25) EDUC90378 Health and physical education (6.25) EDUC90886 Leading literacy in primary schools (6.25) EDUC90877 Clinical teaching practice (Prim) 1 (12.5) EDUC90878 Clinical teaching practice (Prim) 2 (12.5) EDUC90879 Clinical teaching practice (Prim) 3 (12.5) EDUC90419 Education research methodology (12.5) EDUC90558 Education research design (37.5)
Mathematics	EDUC90373 Primary humanities education (6.25)	EDUC90367 Foundational English literacy (12.5) EDUC90377 Advanced English literacies (6.25) EDUC90887 Primary arts education 1 (6.25) EDUC90376 Science technology digital and design (12.5) EDUC90835 Primary mathematics education 3 extension (6.25)	EDUC90882 Educational foundations (Prim) (6.25) EDUC90881 Diverse and inclusive classrooms (Prim) (6.25) EDUC90885 Introduction to clinical practice (Prim) (6.25) EDUC90884 Integrating clinical practice (Prim) (6.25) EDUC90880 Becoming a clinical practitioner (Prim) (6.25) EDUC90777 Literacy assessment and learning (6.25) EDUC90778 Primary mathematics education 1 (12.5) EDUC90378 Health and physical education (6.25) EDUC90834 Primary mathematics education 2 extension (6.25) EDUC90877 Clinical teaching practice (Prim) 1 (12.5)



				<p>EDUC90878 Clinical teaching practice (Prim) 2 (12.5)</p> <p>EDUC90879 Clinical teaching practice (Prim) 3 (12.5)</p> <p>EDUC90419 Education research methodology (12.5)</p> <p>EDUC90558 Education research design (37.5)</p>
	Science	EDUC90373 Primary humanities education (6.25)	<p>EDUC90367 Foundational English literacy (12.5)</p> <p>EDUC90377 Advanced English literacies (6.25)</p> <p>EDUC90887 Primary arts education 1 (6.25)</p> <p>EDUC90860 Science and technology in practice (6.25)</p> <p>EDUC90776 Primary mathematics education 3 (6.25)</p>	<p>EDUC90882 Educational foundations (Prim) (6.25)</p> <p>EDUC90881 Diverse and inclusive classrooms (Prim) (6.25)</p> <p>EDUC90885 Introduction to clinical practice (Prim) (6.25)</p> <p>EDUC90884 Integrating clinical practice (Prim) (6.25)</p> <p>EDUC90880 Becoming a clinical practitioner (Prim) (6.25)</p> <p>EDUC90778 Primary mathematics education 1 (12.5)</p> <p>EDUC90773 Primary mathematics education 2 (6.25)</p> <p>EDUC90378 Health and physical education (6.25)</p> <p>EDUC90777 Literacy assessment and learning (6.25)</p> <p>EDUC90877 Clinical teaching practice (Prim) 1 (12.5)</p> <p>EDUC90878 Clinical teaching practice (Prim) 2 (12.5)</p> <p>EDUC90879 Clinical teaching practice (Prim) 3 (12.5)</p> <p>EDUC90419 Education research methodology (12.5)</p> <p>EDUC90558 Education research design (37.5)</p>
	STEM	EDUC90373 Primary humanities education (6.25)	<p>EDUC90367 Foundational English literacy (12.5)</p> <p>EDUC90377 Advanced English literacies (6.25)</p> <p>EDUC90887 Primary arts education 1 (6.25)</p> <p>EDUC90860 Science and technology in practice (6.25)</p>	<p>EDUC90882 Educational foundations (Prim) (6.25)</p> <p>EDUC90881 Diverse and inclusive classrooms (Prim) (6.25)</p> <p>EDUC90885 Introduction to clinical practice (Prim) (6.25)</p>

			<p>EDUC90835 Primary mathematics education 3 extension (6.25)</p>	<p>EDUC90884 Integrating clinical practice (Prim) (6.25)  EDUC90880 Becoming a clinical practitioner (Prim) (6.25)  EDUC90777 Literacy assessment and learning (6.25)  EDUC90778 Primary mathematics education 1 (12.5)  EDUC90834 Primary mathematics education 2 extension (6.25)  EDUC90378 Health and physical education (6.25)  EDUC90877 Clinical teaching practice (Prim) 1 (12.5)  EDUC90878 Clinical teaching practice (Prim) 2 (12.5)  EDUC90879 Clinical teaching practice (Prim) 3 (12.5)  EDUC90419 Education research methodology (12.5)  EDUC90558 Education research design (37.5)</p>
Core – coursework	Arts, Health and physical education, Humanities, Languages	<p>EDUC90373 Primary humanities education (6.25)  EDUC90883 Inquiry learning in the humanities (6.25)</p>	<p>EDUC90367 Foundational English literacy (12.5)  EDUC90377 Advanced English literacies (6.25)  EDUC90887 Primary arts education 1 (6.25)  EDUC90376 Science technology digital and design (12.5)  EDUC90776 Primary mathematics education 3 (6.25)  EDUC90888 Primary arts education 2 (6.25)</p>	<p>EDUC90882 Educational foundations (Prim) (6.25)  EDUC90881 Diverse and inclusive classrooms (Prim) (6.25)  EDUC90885 Introduction to clinical practice (Prim) (6.25)  EDUC90884 Integrating clinical practice (Prim) (6.25)  EDUC90880 Becoming a clinical practitioner (Prim) (6.25)  EDUC90777 Literacy assessment and learning (6.25)  EDUC90778 Primary mathematics education 1 (12.5)  EDUC90773 Primary mathematics education 2 (6.25)  EDUC90378 Health and physical education (6.25)  EDUC90877 Clinical teaching practice (Prim) 1 (12.5)</p>

				<p>EDUC90878 Clinical teaching practice (Prim) 2 (12.5)</p> <p>EDUC90879 Clinical teaching practice (Prim) 3 (12.5)</p> <p>EDUC91009 Professional learning capstone (Prim) (25.0)</p>
Literacy	<p>EDUC90373 Primary humanities education (6.25)</p> <p>EDUC90883 Inquiry learning in the humanities (6.25)</p>	<p>EDUC90367 Foundational English literacy (12.5)</p> <p>EDUC90377 Advanced English literacies (6.25)</p> <p>EDUC90887 Primary arts education 1 (6.25)</p> <p>EDUC90376 Science technology digital and design (12.5)</p> <p>EDUC90776 Primary mathematics education 3 (6.25)</p> <p>EDUC90888 Primary arts education 2 (6.25)</p>	<p>EDUC90882 Educational foundations (Prim) (6.25)</p> <p>EDUC90881 Diverse and inclusive classrooms (Prim) (6.25)</p> <p>EDUC90885 Introduction to clinical practice (Prim) (6.25)</p> <p>EDUC90884 Integrating clinical practice (Prim) (6.25)</p> <p>EDUC90880 Becoming a clinical practitioner (Prim) (6.25)</p> <p>EDUC90778 Primary mathematics education 1 (12.5)</p> <p>EDUC90773 Primary mathematics education 2 (6.25)</p> <p>EDUC90378 Health and physical education (6.25)</p> <p>EDUC90886 Leading literacy in primary schools (6.25)</p> <p>EDUC90877 Clinical teaching practice (Prim) 1 (12.5)</p> <p>EDUC90878 Clinical teaching practice (Prim) 2 (12.5)</p> <p>EDUC90879 Clinical teaching practice (Prim) 3 (12.5)</p> <p>EDUC91009 Professional learning capstone (Prim) (25.0)</p>	
Mathematics	<p>EDUC90373 Primary humanities education (6.25)</p> <p>EDUC90883 Inquiry learning in the humanities (6.25)</p>	<p>EDUC90367 Foundational English literacy (12.5)</p> <p>EDUC90377 Advanced English literacies (6.25)</p> <p>EDUC90887 Primary arts education 1 (6.25)</p> <p>EDUC90888 Primary arts education 2 (6.25)</p> <p>EDUC90835 Primary mathematics education 3 extension (6.25)</p> <p>EDUC90376 Science technology digital and design (12.5)</p>	<p>EDUC90882 Educational foundations (Prim) (6.25)</p> <p>EDUC90881 Diverse and inclusive classrooms (Prim) (6.25)</p> <p>EDUC90885 Introduction to clinical practice (Prim) (6.25)</p> <p>EDUC90884 Integrating clinical practice (Prim) (6.25)</p>	

				<p>EDUC90880 Becoming a clinical practitioner (Prim) (6.25)</p> <p>EDUC90777 Literacy assessment and learning (6.25)</p> <p>EDUC90778 Primary mathematics education 1 (12.5)</p> <p>EDUC90378 Health and physical education (6.25)</p> <p>EDUC90834 Primary mathematics education 2 extension (6.25)</p> <p>EDUC90877 Clinical teaching practice (Prim) 1 (12.5)</p> <p>EDUC90878 Clinical teaching practice (Prim) 2 (12.5)</p> <p>EDUC90879 Clinical teaching practice (Prim) 3 (12.5)</p> <p>EDUC91009 Professional learning capstone (Prim) (25.0)</p>
	Science	<p>EDUC90373 Primary humanities education (6.25)</p> <p>EDUC90883 Inquiry learning in the humanities (6.25)</p>	<p>EDUC90367 Foundational English literacy (12.5)</p> <p>EDUC90377 Advanced English literacies (6.25)</p> <p>EDUC90887 Primary arts education 1 (6.25)</p> <p>EDUC90860 Science and technology in practice (6.25)</p> <p>EDUC90776 Primary mathematics education 3 (6.25)</p> <p>EDUC90888 Primary arts education 2 (6.25)</p>	<p>EDUC90882 Educational foundations (Prim) (6.25)</p> <p>EDUC90881 Diverse and inclusive classrooms (Prim) (6.25)</p> <p>EDUC90885 Introduction to clinical practice (Prim) (6.25)</p> <p>EDUC90884 Integrating clinical practice (Prim) (6.25)</p> <p>EDUC90880 Becoming a clinical practitioner (Prim) (6.25)</p> <p>EDUC90778 Primary mathematics education 1 (12.5)</p> <p>EDUC90773 Primary mathematics education 2 (6.25)</p> <p>EDUC90378 Health and physical education (6.25)</p> <p>EDUC90777 Literacy assessment and learning (6.25)</p> <p>EDUC90877 Clinical teaching practice (Prim) 1 (12.5)</p> <p>EDUC90878 Clinical teaching practice (Prim) 2 (12.5)</p>

				EDUC90879 Clinical teaching practice (Prim) 3 (12.5) EDUC91009 Professional learning capstone (Prim) (25.0)
	STEM	EDUC90373 Primary humanities education (6.25) EDUC90883 Inquiry learning in the humanities (6.25)	EDUC90367 Foundational English literacy (12.5) EDUC90377 Advanced English literacies (6.25) EDUC90887 Primary arts education 1 (6.25) EDUC90860 Science and technology in practice (6.25) EDUC90888 Primary arts education 2 (6.25) EDUC90835 Primary mathematics education 3 extension (6.25)	EDUC90882 Educational foundations (Prim) (6.25) EDUC90881 Diverse and inclusive classrooms (Prim) (6.25) EDUC90885 Introduction to clinical practice (Prim) (6.25) EDUC90884 Integrating clinical practice (Prim) (6.25) EDUC90880 Becoming a clinical practitioner (Prim) (6.25) EDUC90778 Primary mathematics education 1 (12.5) EDUC90834 Primary mathematics education 2 extension (6.25) EDUC90378 Health and physical education (6.25) EDUC90777 Literacy assessment and learning (6.25) EDUC90877 Clinical teaching practice (Prim) 1 (12.5) EDUC90878 Clinical teaching practice (Prim) 2 (12.5) EDUC90879 Clinical teaching practice (Prim) 3 (12.5) EDUC91009 Professional learning capstone (Prim) (25.0)
Electives - coursework do 1: a directed choice for pathway, free choice or place based	Arts	None	EDUC90493 Arts and artistry: studio to classroom <sup>DE</sup>	EDUC90916 Place based elective (alternative) <sup>PBE</sup> EDUC90922 Place based elective (international) <sup>PBE</sup> EDUC90919 Place based elective (indigenous) <sup>PBE</sup> EDUC90923 Place based elective (rural/remote) <sup>PBE</sup>
	Health & physical education	None	None	EDUC90711 Physical education pedagogy <sup>DE</sup> EDUC90916 Place based elective (alternative) <sup>PBE</sup> EDUC90922 Place based elective (international) <sup>PBE</sup> EDUC90919 Place based elective (indigenous) <sup>PBE</sup> EDUC90923 Place based elective (rural/remote) <sup>PBE</sup>
	Humanities	EDUC90727 Teaching global perspectives <sup>DE</sup>	None	EDUC90916 Place based elective (alternative) <sup>PBE</sup>

				EDUC90922 Place based elective (international) <sup>PBE</sup> EDUC90919 Place based elective (indigenous) <sup>PBE</sup> EDUC90923 Place based elective (rural/remote) <sup>PBE</sup>
	Languages	None	None	EDUC90543 Languages for young learners <sup>DE</sup>
	Literacy	EDUC90727 Teaching global perspectives	EDUC90972 Active pedagogies EDUC90493 Arts and artistry studio to classroom EDUC90425 Australian Indigenous education EDUC90261 Curriculum frameworks in the IB PYP EDUC90333 Introduction to the IB EDUC90794 Science in the integrated curriculum EDUC90974 Teaching critical and creative thinking EDUC90971 Teaching in. through and across the arts EDUC90915 Working with grammar in context <sup>RE</sup>	EDUC90609 Australian curriculum perspectives EDUC90841 Comparative educational systems and context EDUC90940 Historical thinking EDUC90543 Languages for young learners EDUC90861 Leading mathematics across the school EDUC90504 Leadership in educational settings EDUC90913 Personalising learning with technology EDUC90842 Perspectives on childhood and youth EDUC90711 Physical education and pedagogy EDUC90916 Place based elective (alternative) EDUC90922 Place based elective (international) EDUC90919 Place based elective (indigenous) EDUC90923 Place based elective (rural/remote) EDUC90976 Positive learning environments EDUC90428 Promoting student wellbeing
	Mathematics	EDUC90727 Teaching global perspectives	EDUC90972 Active pedagogies EDUC90493 Arts and artistry studio to classroom EDUC90425 Australian Indigenous education EDUC90261 Curriculum frameworks in the IB PYP EDUC90333 Introduction to the IB EDUC90794 Science in the integrated curriculum EDUC90974 Teaching critical and creative thinking EDUC90971 Teaching in. through and across the arts EDUC90915 Working with grammar in context	EDUC90609 Australian curriculum perspectives EDUC90841 Comparative educational systems and context EDUC90940 Historical thinking EDUC90543 Languages for young learners EDUC90861 Leading mathematics across the school <sup>RE</sup> EDUC90504 Leadership in educational settings EDUC90913 Personalising learning with technology EDUC90842 Perspectives on childhood and youth EDUC90711 Physical education and pedagogy EDUC90916 Place based elective (alternative) EDUC90922 Place based elective (international) EDUC90919 Place based elective (indigenous) EDUC90923 Place based elective (rural/remote) EDUC90976 Positive learning environments EDUC90428 Promoting student wellbeing

	Science	None	EDUC90794 Science in the integrated curriculum <sup>DE</sup>	EDUC90916 Place based elective (alternative) <sup>PBE</sup> EDUC90922 Place based elective (international) <sup>PBE</sup> EDUC90919 Place based elective (indigenous) <sup>PBE</sup> EDUC90923 Place based elective (rural/remote) <sup>PBE</sup>
	STEM	EDUC90727 Teaching global perspectives	EDUC90972 Active pedagogies EDUC90493 Arts and artistry studio to classroom EDUC90425 Australian Indigenous education EDUC90261 Curriculum frameworks in the IB PYP EDUC90333 Introduction to the IB EDUC90794 Science in the integrated curriculum <sup>RE</sup> EDUC90974 Teaching critical and creative thinking EDUC90971 Teaching in. through and across the arts EDUC90915 Working with grammar in context	EDUC90609 Australian curriculum perspectives EDUC90841 Comparative educational systems and context EDUC90940 Historical thinking EDUC90543 Languages for young learners EDUC90861 Leading mathematics across the school EDUC90504 Leadership in educational settings EDUC90913 Personalising learning with technology EDUC90842 Perspectives on childhood and youth EDUC90711 Physical education and pedagogy EDUC90916 Place based elective (alternative) EDUC90922 Place based elective (international) EDUC90919 Place based elective (indigenous) EDUC90923 Place based elective (rural/remote) EDUC90976 Positive learning environments EDUC90428 Promoting student wellbeing

Table A4: Subject details for Secondary in 2020

Subject type	Subjects with detailed focus on sustainability	Subjects where may be used as theme/example	Subjects unlikely to address sustainability
Core – all pre-service teachers	None		EDUC90901 Educational foundations (Sec) (6.25) EDUC90902 Diverse and inclusive classrooms (Sec) (6.25) EDUC90903 Contemporary education debates (6.25) EDUC90904 Introduction to clinical practice (Sec) (12.5) EDUC90905 Becoming a clinical practitioner (Sec) (12.5) EDUC90907 Inclusive language, literacy and numeracy (6.25) EDUC90906 Integrating language and clinical practice (12.5) EDUC90908 Clinical teaching practice (Sec) 1 (12.5) EDUC90909 Clinical teaching practice (Sec) 2 (12.5) EDUC90909 Clinical teaching practice (Sec) 3 (12.5) EDUC91015 Professional learning capstone (Sec) (25.0) EDUC90419 Education research methodology (12.5) EDUC90558 Education research design (37.5)
Core – Learning area	EDUC90963 Learning area environmental science 1 (12.5) EDUC90964 Learning area environmental science 2 (12.5) EDUC90445 Learning area humanities 1 (12.5) EDUC90446 Learning area humanities 2 (12.5) EDUC90447 Learning area SOSE 1 (12.5) EDUC90448 Learning area SOSE 2 (12.5)	EDUC90429 Learning area biology 1 (12.5) EDUC90430 Learning area biology 2 (12.5) EDUC90435 Learning area drama A 1 (12.5) EDUC90436 Learning area drama A 2 (12.5) EDUC91013 Learning area drama B 1 (12.5) EDUC91014 Learning area drama B 2 (12.5) EDUC90959 Learning area economics 1 (12.5) EDUC90960 Learning area economics 2 (12.5) EDUC90437 Learning area English 1 (12.5) EDUC90438 Learning area English 2 (12.5) EDUC90441 Learning area health 1 (12.5) EDUC90442 Learning area health 2 (12.5) EDUC90443 Learning area history 1 (12.5) EDUC90444 Learning area history 2 (12.5) EDUC90457 Learning area mathematics 1 (12.5) EDUC90458 Learning area mathematics 2 (12.5)	EDUC90955 Learning area accounting 1 (12.5) EDUC90956 Learning area accounting 2 (12.5) EDUC90955 Learning area business management 1 (12.5) EDUC90956 Learning area business management 2 (12.5) EDUC90433 Learning area chemistry 1 (12.5) EDUC90434 Learning area chemistry 2 (12.5) EDUC90433 Learning area commerce & bus. studies 1 (12.5) EDUC90434 Learning area commerce & bus. studies 2 (12.5) EDUC90453 Learning area languages 1 (12.5) EDUC90454 Learning area languages 2 (12.5) EDUC90961 Learning area legal studies 1 (12.5) EDUC90962 Learning area legal studies 2 (12.5)



		<p>EDUC90461 Learning area media studies 1 (12.5)  EDUC90462 Learning area media studies 2 (12.5)  EDUC90965 Learning area politics 1 (12.5)  EDUC90966 Learning area politics 2 (12.5)  EDUC90473 Learning area science 1 (12.5)  EDUC90474 Learning area science 2 (12.5)  EDUC90475 Learning area TESOL 1 (12.5)  EDUC90476 Learning area TESOL 2 (12.5)  EDUC90477 Learning area visual arts and design 1 (12.5)  EDUC90478 Learning area visual arts and design 2 (12.5)  EDUC90479 Learning area visual arts and design (ad) 1 (12.5)  EDUC90480 Learning area visual arts and design (ad) 2 (12.5)</p>	<p>EDUC90463 Learning area music A 1 (12.5)  EDUC90464 Learning area music A 2 (12.5)  EDUC90465 Learning area music B 1 (12.5)  EDUC90466 Learning area music B 2 (12.5)  EDUC90467 Learning area physical education 1 (12.5)  EDUC90468 Learning area physical education 2 (12.5)  EDUC90469 Learning area physics 1 (12.5)  EDUC90470 Learning area physics 2 (12.5)  EDUC90471 Learning area psychology 1 (12.5)  EDUC90472 Learning area psychology 2 (12.5)</p>
Electives (choose 2)	EDUC90727 Teaching global perspectives	<p>EDUC90972 Active pedagogies  EDUC90493 Arts and artistry studio to classroom  EDUC90425 Australian Indigenous education  EDUC90332 Curriculum frameworks in the IB DP  EDUC90333 Introduction to the IB  EDUC90974 Teaching critical and creative thinking  EDUC90914 Teaching integrated science  EDUC90971 Teaching in. through and across the arts  EDUC90915 Working with grammar in context</p>	<p>EDUC90609 Australian curriculum perspectives  EDUC90841 Comparative educational systems and context  EDUC90422 Foundations of English teaching  EDUC90426 Foundations of mathematics teaching  EDUC90940 Historical thinking  EDUC90973 Introduction to digital thinking (not offered)  EDUC90861 Leading mathematics across the school  EDUC90504 Leadership in educational settings  EDUC90913 Personalising learning with technology  EDUC90842 Perspectives on childhood and youth  EDUC90711 Physical education and pedagogy  EDUC90916 Place based elective (alternative)  EDUC90922 Place based elective (international)  EDUC90919 Place based elective (indigenous)  EDUC90923 Place based elective (rural/remote)  EDUC90976 Positive learning environments  EDUC90428 Promoting student wellbeing</p>

## Reference

Victorian Curriculum and Assessment Authority (n.d) *Cross-curriculum Priorities*. <https://victoriancurriculum.vcaa.vic.edu.au/overview/cross-curriculum-priorities>