

Curriculum Structure for Bachelor of Science in an Academic Discipline and in Education (Primary) (General) Programmes

Student teachers enrolled in the Bachelor of Science in an Academic Discipline and in Education (Primary) (General) programmes will follow the curriculum structure shown in Table 5 below:

Table 5: Curriculum Structure for Bachelor of Science in an Academic Discipline and in Education (Primary) (General) Programmes

Year 1

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR (Select 1 subject area*)			
ACADEMIC DISCIPLINE			
AD Major		Science Subject *	12
EDUCATION MAJOR			
EDUCATION STUDIES			
	AED00C	Professional Practice and Inquiry	1
	AED10A	Educational Psychology: Theories and Applications for Learning and Teaching	2
	AED10G#	Character and Citizenship Education in the Singapore Context	2
CURRICULUM STUDIES (Select any 2 Curriculum Studies areas)			
Music	ACI10C	Music and Movement in the Inclusive Classroom	3
PRACTICUM			
	APR10A	School Experience	0
INTER-MAJOR			
	ALS10A	Academic Discourse Skills	3
INTERDISCIPLINARY COLLABORATIVE CORE			
	ALK10B	Communication Skills for Teachers	2
	AED10B	Group Endeavours in Service Learning	1
	CC0006	Sustainability: Society, Economy and Environment	3
	HY0003	Ethics and Social Contexts of Education	2

Category/ Subject	Course Code	Title	No. of AUs
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BROADENING & DEEPENING ELECTIVES

PRIMARY LEVEL SUBJECTS (Aligned with Curriculum Studies Subjects)

Art	ASA10B	Twenty-First Century Learning through Theatre and Drama	3
English Language	ASE10A	Grammar	2
Mathematics	ASM10C	Number Topics	2
	ASM10D	Geometry Topics	2
Science (For non-PES Major student teachers)	ASK10B	Topics in Physical Science for Primary Science Teaching	3
Social Studies	ASL10A	Disciplinary Foundations in Primary Social Studies: Geography	3
	ASL10B	Disciplinary Foundations in Primary Social Studies: History	3

* AD Major: Select 1 from the following list of Science Subjects:
Biology, Chemistry, Mathematics & Computational Thinking, Physics & Energy Studies.

Applicable for student teachers from July 2021 intake onwards. For student teachers from earlier intakes, the equivalent course is AED10E The Social Context of Education of Singapore.

Note: In addition to the core courses and the required number of prescribed electives, student teachers doing English Language as a Curriculum Studies (CS) subject but not reading English Language & Linguistics as an Academic Discipline Major are required by Ministry of Education to undertake a compulsory Certificate in English Language Studies (CELS).

Year 2

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR (Select 1 subject area*)			
ACADEMIC DISCIPLINE			
AD Major		Science Subject *	18
EDUCATION MAJOR			
EDUCATION STUDIES			
	AED20A	Teaching and Managing Learners at the Primary Level	2
	AED20C	Technologies for Meaningful Learning	2
	AED20D	Assessing Learning and Performance	1
CURRICULUM STUDIES (Select any 2 Curriculum Studies areas)			
Art	ACA20A	Concepts and Practices in Art Education	3
English Language	ACE20B	Teaching Reading and Writing in a Multilingual Context (Lower Primary)	3
Mathematics	ACM20A	The Teaching and Learning of Primary Mathematics I	3
Music	ACI20C	Popular Music Pedagogies	3
Science	ACS20A	Curriculum and Practices for Primary Science	3
Social Studies	ACL20A	Teaching Social Studies in the Primary Classroom	3
PRACTICUM			
	APR20A	Teaching Assistantship	3
INTERDISCIPLINARY COLLABORATIVE CORE			
	AMX20A	Multicultural Studies: Appreciating & Valuing Differences	3
Select 1 digital literacy prescribed elective ⁺ [^]	AED23 L/M/K	Digital and Media Literacy / Computer Literacy through Coding and Applications / Digital Literacy for Net Generation	3
BROADENING & DEEPENING ELECTIVES			
PRIMARY LEVEL SUBJECTS (Aligned with Curriculum Studies subjects)			
English Language	ASE20A	Exploring Language in Texts	2

* AD Major: Select 1 from the following list of Science Subjects:
Biology, Chemistry, Mathematics & Computational Thinking, Physics & Energy Studies.

+ Select 1 course from the following choices:
AED23L or AED23M or AED23K

[^] Student teachers reading a Minor in Mathematics & Computational Thinking must take AED23M Computer Literacy through Coding and Applications.

Year 3

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR (Select 1 subject area*)			
ACADEMIC DISCIPLINE			
AD Major		Science Subject *	9
EDUCATION MAJOR			
EDUCATION STUDIES			
	AED30D	Supporting Diversity at the Primary Level	1
	AED30E	Pedagogical Practices	1
CURRICULUM STUDIES (Further studies in selected Curriculum Studies subjects)			
Art	ACA30A	Children and Adolescent's Artistic Development and its Implications for Teaching	3
English Language	ACE30B	Teaching Reading and Writing in a Multilingual Context (Upper Primary)	3
Mathematics	ACM30A	The Teaching and Learning of Primary Mathematics II	3
Music	ACI30C	Instrumental and Singing Skills for the Music Classroom	3
Science	ACS30A	Pedagogies for Primary Science	3
Social Studies	ACL30A	Inquiry in Primary Social Studies	3
PRACTICUM			
	APR30A	Teaching Practice 1	5
INTER-MAJOR			
	AED40A	Educational Research #^	3
	AED430	Research Project #^	3
BROADENING & DEEPENING ELECTIVES			
PRIMARY LEVEL SUBJECTS (Aligned with Curriculum Studies subjects)			
Art	ASA30B	Pedagogical Practices in Art Classroom	3
GENERAL ELECTIVES@			
			6

* AD Major: Select 1 from the following list of Science Subjects:
Biology, Chemistry, Mathematics & Computational Thinking, Physics & Energy Studies.

Student teachers are required to read AED40A, except those in the NTU-NIE Teaching Scholars Programme (TSP) who will read AED430 instead.

^ AED40A and AED430 span two semesters.

@ Student teachers are required to read 2 General Electives worth 6 AUs.

Year 4

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR (Select 1 subject area*)			
ACADEMIC DISCIPLINE			
AD Major		Science Subject *	9
EDUCATION MAJOR			
CURRICULUM STUDIES (Further studies in selected Curriculum Studies subjects)			
Art	ACA40A	Teaching of Art in the Classroom	3
	ACA40B ⁺	Curriculum and Assessment in Art	3
English Language	ACE40C	Teaching Speaking and Listening in a Multilingual Context (Lower and Upper Primary)	3
	ACE40D ⁺	Approaches to Teaching English in a Multilingual Context	3
Mathematics	ACM40A	The Teaching and Learning of Primary Mathematics III	3
	ACM40B ⁺	Assessment Literacy for The Primary Mathematics Classrooms	3
Science	ACS40A	Innovations in Design and Practices for Primary Science	3
	ACS40B ⁺	Meeting Learners' Needs in Primary Science	3
Social Studies	ACL40A	Managing Diversity in the Social Studies Classroom	3
	ACL40B ⁺	Curriculum Leadership in Primary Social Studies	3
INTER-MAJOR			
ACADEMIC EXERCISE			
		Academic Exercise (aligned with AD Major*)	6
PRACTICUM			
	APR40A	Teaching Practice 2	10
BROADENING & DEEPENING ELECTIVES			
PRIMARY LEVEL SUBJECTS (Aligned with Curriculum Studies Subjects)			
English Language	ASE40B	Current Trends in English Language Education in the Primary School	2
Mathematics	ASM40A	Further Mathematics Topics	2
Music	ASI40A	Composing	3
	ASI40B	Ethnomusicology	3
Science (For non-Biology Major student teachers)	ASK40B	Topics in Biological Science for Primary Science Teaching	3

* AD Major: Select 1 from the following list of Science Subjects:
Biology, Chemistry, Mathematics & Computational Thinking, Physics & Energy Studies.

+ Offered to CS1 student teachers.
CS2 student teachers may approach the course coordinator if they wish to sit in for the course.

AUs overview for Bachelor of Science in an Academic Discipline and in Education (Primary) (General)

Group of Courses	No. of AUs
ACADEMIC DISCIPLINE MAJOR	
Academic Discipline	48
EDUCATION MAJOR	
Education Studies	12
Curriculum Studies	12
• CS1	9
• CS2	9
Practicum	
• School Experience	0
• Teaching Assistantship	3
• Teaching Practice 1	5
INTER-MAJOR	
• Academic Exercise	6
• Academic Discourse Skills	3
• Education Research (Regulars and Upgraders) / Research Project (TSP)	3
Practicum	
• Teaching Practice 2	10
INTERDISCIPLINARY COLLABORATIVE CORE	
• Communication Skills for Teachers	2
• Digital Literacy	3
• Ethics and Social Contexts of Education	2
• Group Endeavors in Service Learning	1
• Multicultural Studies	3
• Sustainability: Society, Economy and Environment	3
BROADENING & DEEPENING ELECTIVES	
Primary Level Subject (aligned with Curriculum Studies)	
• PLS1	9
• PLS2	6
General Electives	
• Regulars and Upgraders; or	6 /
• TSP	18

Curriculum Structure for Bachelor of Science in an Academic Discipline and in Education (Secondary) (General) Programmes

Student teachers enrolled in the Bachelor of Science in an Academic Discipline and in Education (Secondary) (General) programmes will follow the curriculum structure shown in Table 7 below:

Table 7: Curriculum Structure for Bachelor of Science in an Academic Discipline and in Education (Secondary) (General) Programmes

Year 1

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR			
ACADEMIC DISCIPLINE			
AD Major		Science Subject *	12
EDUCATION MAJOR			
EDUCATION STUDIES			
	AED02C	Professional Practice and Inquiry	1
	AED10A	Educational Psychology: Theories and Applications for Learning and Teaching	2
	AED10G#	Character and Citizenship Education in the Singapore Context	2
PRACTICUM			
	APR10A	School Experience	0
INTER-MAJOR			
	ALS10A	Academic Discourse Skills	3
INTERDISCIPLINARY COLLABORATIVE CORE			
	ALK10B	Communication Skills for Teachers	2
	AED10B	Group Endeavours in Service Learning	1
	CC0006	Sustainability: Society, Economy and Environment	3
	HY0003	Ethics and Social Contexts of Education	2
BROADENING & DEEPENING ELECTIVES			
MINOR			
AD Minor		Arts or Science Subject @	12

Applicable for student teachers from July 2021 intake onwards. For student teachers from earlier intakes, the equivalent course is AED10E The Social Context of Education of Singapore.

* AD Major: Select one from the following list of Science Subjects:
Biology, Chemistry, Food & Consumer Sciences, Mathematics & Computational Thinking, Physics & Energy Studies.

@ AD Minor: Select one from the following list:
Art, Biology, Chemistry, Drama, English Language & Linguistics, English Literature, Geography, History, Mathematics & Computational Thinking, Music, Physics & Energy Studies.

Year 2

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR			
ACADEMIC DISCIPLINES			
AD Major		Science Subject *	18
EDUCATION MAJOR			
EDUCATION STUDIES			
	AED22A	Teaching and Managing Learners at Secondary Level (Part 1)	2
	AED20C	Technologies for Meaningful Learning	2
	AED20D	Assessing Learning and Performance	1
CURRICULUM STUDIES (CS1 align with AD Major, CS2 align with AD Minor)			
Art	ACA22A	Concepts and Practices in Art Education	3
Biology	ACB22A	Curriculum and Scientific Practices in Biology Education	3
Chemistry	ACY22B	Pedagogies in Chemistry Education	3
Drama	ACU22A	Theatre and Drama Education	3
English Language	ACE22B	Teaching of English at the Secondary Level: Reading and Viewing	3
English Literature**	ACR32A	Teaching Prose	3
	ACR32B	Teaching Poetry	3
Food & Consumer Sciences	ACQ22A	Family and Consumer Sciences Curriculum	3
Geography	ACG22A	Planning for Geography Teaching	3
History	ACH22A	Introduction to the Teaching and Learning of Secondary History	3
Mathematics	ACM22A	Teaching and Learning Mathematics I	3
Music	ACI22C	Popular Music Pedagogies	3
Physics	ACP22A	Understanding the Physics Curriculum	3
Social Studies	ACL22B	Social Studies Education in the Secondary School Classroom	3
PRACTICUM			
	APR20A	Teaching Assistantship	3
INTERDISCIPLINARY COLLABORATIVE CORE			

Category/ Subject	Course Code	Title	No. of AUs
	AMX20A	Multicultural Studies: Appreciating & Valuing Differences	3
Select 1 digital literacy prescribed elective ⁺ [^]	AED23 L/M/K	Digital and Media Literacy / Computer Literacy through Coding and Applications / Digital Literacy for Net Generation	3
BROADENING & DEEPENING ELECTIVES			
GENERAL ELECTIVES @			
			3

* AD Major: Select one from the following list of Science Subjects:
Biology, Chemistry, Food & Consumer Sciences, Mathematics & Computational Thinking, Physics & Energy Studies.

** ACR32A, ACR32B can be taken at Year 2 or Year 3.

+ Select 1 course from the following choices:
AED23L or AED23M or AED23K

[^] Student teachers reading a Minor in Mathematics & Computational Thinking must take AED23M Computer Literacy through Coding and Applications.

@ Student teachers are required to read a total of 2 General Electives worth 6 AUs.

Year 3

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR			
ACADEMIC DISCIPLINE *			
AD Major		Science Subject *	9
EDUCATION MAJOR			
EDUCATION STUDIES			
	AED32B	Teaching and Managing Learners at Secondary Level (Part 2)	1
	AED30E	Pedagogical Practices	1
CURRICULUM STUDIES (CS1 align with AD Major, CS2 align with AD Minor)			
Art	ACA32A	Children and Adolescent's Artistic Development and its Implications for Teaching	3
Biology	ACB32A	Pedagogies in Biology Education	3
Chemistry	ACY32B	Chemistry Planning and Instruction	3
Drama	ACU32A	Planning and Facilitating Theatre and Drama Education	3
English Language	ACE32B	Teaching of English at the Secondary Level: Writing and Representing	3
English Literature	ACR32A	Teaching Prose	3
**	ACR32B	Teaching Poetry	3

Category/ Subject	Course Code	Title	No. of AUs
Food & Consumer Sciences	ACQ32A	Introduction to Family and Consumer Sciences Teaching	3
Geography	ACG32A	Classroom-based Teaching Strategies	3
History	ACH32A	Teaching and Learning of Secondary History and Social Studies I	3
Mathematics	ACM32A	Teaching and Learning Mathematics II	3
Music	ACI32C	Instrumental and Singing Skills for the Music Classroom	3
Physics	ACP32A	Physics Instruction & Microteaching	3
Social Studies	ACL32B	Inquiry-Based Learning Approach Towards the Teaching of Social Studies	3
PRACTICUM			
	APR30A	Teaching Practice 1	5
INTER-MAJOR			
	AED40A	Educational Research #^	3
	AED430	Research Project #^	3
BROADENING & DEEPENING ELECTIVES			
GENERAL ELECTIVES @			
			6

* AD Major: Select one from the following list of Science Subjects:
Biology, Chemistry, Food and Consumer Sciences, Mathematics &
Computational Thinking, Physics & Energy Studies.

@ Student teachers are required to read a total of 2 General Electives worth 6 AUs.

Student teachers are required to read AED40A, except those in the NTU-NIE Teaching
Scholars (TSP) Programme who will read AED430 instead.

^ AED40A and AED430 span two semesters.

** ACR32A, ACR32B can be taken at Year 2 or Year 3.

Year 4

Category/ Subject	Course Code	Title	No. of AUs
ACADEMIC DISCIPLINE MAJOR			
ACADEMIC DISCIPLINE			
AD Major		Science Subject *	9
EDUCATION MAJOR			
CURRICULUM STUDIES (CS1 align with AD Major, CS2 align with AD Minor)			
Art	ACA42A ⁺	Curriculum and Assessment in Art (Teaching of Art 3)	3
	ACA42B	Teaching of Art in the Classroom (Teaching of Art 4)	3
Biology	ACB42A	Assessment in Biology	3
	ACB42B	Innovative Biology Teaching	3
Chemistry	ACY42A	Assessment and laboratory issues in Chemistry	3
	ACY42C ⁺	Trends and Issues in Chemistry Education	3
Drama	ACU42A ⁺	Critical Pedagogies for Theatre and Drama Education	3
	ACU42B	Curriculum and Assessment for Theatre and Drama Education	3
English Language	ACE42A	Teaching of English at the Secondary Level: Listening and Speaking	3
	ACE42B ⁺	Teaching Grammar at the Secondary Level	3
English Literature	ACR42A ⁺	Designing Literature Curriculum and Assessment	3
	ACR42B	Teaching Drama	3
Food & Consumer Sciences	ACQ42A	Evaluation in Family and Consumer Sciences Teaching	3
	ACQ42B	Trends in Family and Consumer Sciences Education	3
Geography	ACG42A ⁺	Advanced Teaching Strategies in Geography	3
	ACG42B	Field-Based Teaching Strategies and Assessment in Teaching Geography	3
History	ACH42A ⁺	Inquiry-based Experiential Learning: Fieldtrip Design for Secondary History	3
	ACH42B	Assessment and Evaluation in Secondary History	3
Mathematics	ACM42A	Teaching and Learning Mathematics III	3
	ACM42B ⁺	Specialised Areas in Teaching and Learning of Mathematics	3
Music	ACI42D	Teaching Music as an Examination Subject at O- and N(T)-level	3
	ACI42E ⁺	Creativity in Music Education	3
Physics	ACP42A	Assessment in Physics Education	3
	ACP42B ⁺	Reflective Teaching and Inquiry in Physics	3
Social Studies	ACL42B	Assessing Learning in Social Studies	3

Category/ Subject	Course Code	Title	No. of AUs
INTER-MAJOR			
ACADEMIC EXERCISE			
		Academic Exercise (aligned with AD Major*)	6
PRACTICUM			
	APR40A	Teaching Practice 2	10

* AD Major: Select one from the following list of Science Subjects:
Biology, Chemistry, Food & Consumer Sciences, Mathematics & Computational Thinking, Physics & Energy Studies.

+ Offered to CS1 student teachers. CS2 student teachers may approach the course coordinator if they wish to sit in for the course.

AUs overview for Bachelor of Science in an Academic Discipline and in Education (Secondary) (General)

Group of Courses	No. of AUs
ACADEMIC DISCIPLINE MAJOR	
Academic Discipline <ul style="list-style-type: none"> AD Major 	48
EDUCATION MAJOR	
Education Studies	12
Curriculum Studies <ul style="list-style-type: none"> CS1 CS2 	12 9
Practicum <ul style="list-style-type: none"> School Experience Teaching Assistantship Teaching Practice 1 	0 3 5
INTER-MAJOR	
<ul style="list-style-type: none"> Academic Exercise Academic Discourse Skills Education Research (Regulars and Upgraders) / Research Project (TSP) 	6 3 3
Practicum <ul style="list-style-type: none"> Teaching Practice 2 	10
INTERDISCIPLINARY COLLABORATIVE CORE	
<ul style="list-style-type: none"> Communication Skills for Teachers Digital Literacy Ethics and Social Contexts of Education Group Endeavors in Service Learning Multicultural Studies Sustainability: Society, Economy and Environment 	2 3 2 1 3 3
BROADENING & DEEPENING ELECTIVES	
Minor <ul style="list-style-type: none"> AD Minor 	15
General Electives <ul style="list-style-type: none"> Regulars and Upgraders; or TSP 	6 / 18

