

Undergraduate Programme Course List (2025/26)

Programme Title:	Bachelor of Science (Honours) in Artificial Intelligence and Educational Technology and Bachelor of Education (Honours) (Primary Mathematics)
Programme Short Name:	BSc(AIET) & BEd(PM)
Programme Code:	A5B112
Year of Entry:	2025/26

Major

Course Code	Course Title
Discipline Studies Major (AI&EdTech)	
Major Core	
INT1092	Introduction to Educational Technology
INT2067	Introduction to Programming and Problem Solving
INT2093	Fundamentals of Neural Networks
INT2094	Introduction to Natural Language Processing
INT3086	Data Structures and Algorithms for Data Mining
TBC	Designing STEAM Activities with Integrated Engineering and Mathematics
INT4096	Artificial Intelligence and Machine Learning in Education
INT4098	Applied Robotics with Applications to Special Education
TBC	Cyber Security and the Application in Education
TBC	Python Programming Lab
Major Elective (Choose 1 out of 5 courses)	
INT4059	Computer-Aided 3D Design and Printing Technologies
INT4074	Mobile Applications Design and Development
INT4087	Web Database Applications for Data Analytics
TBC	Technologies in STEAM and AI Education
INT4097	Deep Learning for Computer Vision and Education
TBC	Internship
MTH1098	Calculus
MTH1025	Geometry and Measurement
MTH2162	Essential Number Theory
MTH2168	Introduction to Sets, Logic and Discrete Mathematics
MTH2176	Mathematical Modelling for Problem-solving in Primary Mathematics
MTH3100	Vectors and Geometry
MTH3104	Modern Algebra

MTH3177	Mathematical Exploration with Technology for Mathematical Modelling
TBC	Design of STEAM Activities for Mathematics Learning
MTH4169	Introduction to Probability and Statistics
Major Elective (Choose 1 out of 2)	
MTH2111	Development of Mathematical Ideas
MTH4144	Discrete Mathematics
Cross-Faculty Core Course	
CFA1001	Cross-Faculty Core Course (Component I: Basic Law and National Security Education)
CFB3011	Cross-Faculty Core Course (Component II: Visits in Greater Bay Area)
CFC1031	CFCC-Component III: Exploration of STEAM Education in School Settings
CFC3003	CFCC-Component III: Lingnan Art and Culture
CFC3006	CFCC-Component III: Practice of Tai Chi and Healthy Lifestyle Culture in GBA

Education Studies – *for teacher education programme*

Course Code	Course Title
Education Studies – Pedagogy for Major	
TBC	Learning, Teaching and Assessment in Primary Mathematics with STEAM Education Elements
TBC	Curriculum and Teaching of Selected Topics in Primary Mathematics with STEAM Education Elements
Education Studies Core	
PSY2050	Basic Psychology for Educators: Useful Concepts from Educational and Positive Psychology
PFS2013	Philosophical and Socio-cultural Issues in Education
TLS3092	Effective Teaching & Positive Classroom Learning Environment
TLS3003	Curriculum and Assessment
SED4116	School Guidance and Managing Diversity
EDA4101	Teachers and Teaching in Context
Education Studies – Restricted Electives	
TLS3005	Assessment for Productive Learning
TLS3007	School-based Curriculum Development
TLS3008	Teaching Innovations
TLS3056	Enquiring Into School-Based Assessment: Issues and Strategies
EDA3035	Promoting Social Justice in Schools
EDA3097	Practical Legal Knowledge for Teachers
EDA4099	Hong Kong Education Stories: History, Policy and Advocacy
EDA4100	Rethinking and Reimagining Education

PFS2043	International Schools in Global Context
PFS3032	Learning and Teaching in International Schools
PFS3046	International Perspectives on Education in Hong Kong
PFS3048	Globalization and Education
PFS4044	Life and Values Education
PFS4047	Education for a Meaningful Life: Great Thinkers
PSY2020	Human Development across the Lifespan
PSY3018	Child and Adolescent Psychopathology
PSY3019	Stress and Coping
PSY3021	Learning Theories and Processes
COU3009	Counselling Theories, Process and Practice
COU4030	Comprehensive School Guidance
SED3002	A Whole School Approach to Inclusive Practices
SED4074	Developing an Inclusive Classroom for Diverse Learning