

Curriculum for students admitted in AY21 onwards - ESPP

EESS Major Core		
Course Code	Course Title	AUs
ES0001	The Physical Environments of Singapore	3
ES0138	Introduction to Scientific Writing	2
ES1001	E2S2 Environment and Society	4
ES1003	E2S2 Solid Earth	4
ES1006	Introductory Field Experience	4
ES1007	Climate Change	3
ES2001	Computational Earth Systems Science	4
ES2003	E2S2 Biosphere	4
MH1802	Calculus for the Sciences	4
ES2303	Introduction to Ecology	3
ES2201	Law & Economics, Sustainable Development, and Environmental Protection	3
ES2202	Global Environmental Politics and Governance	3
ES2802	GIS and the Earth System	3
ES3201	Coupled Human and Natural Systems	3
ES3202	Resilient Urban Systems	3
MH3511	Data Analytics with Computer	3

PPGA Major Core		
Course Code	Course Title	AUs
HA1001	Introduction to International Relations and Foreign Policy	3
HA1002	Introduction to Political Theory	3
HA1003	Introduction to Public Administration and Policy	3
HA1011	Politics of Singapore	3
HA1012	Fundamentals of Politics	3

EESS Major PE		
Course Code	Course Title	AUs
BS1001	Introductory Biology	3
BS1005	Biochemistry I	3
BS1008	Bioinformatics and Statistics	3
BS2002	Microbiology	3
CM1001	Foundations of Chemistry I	4
CM1002	Foundations of Chemistry II	4
CM2011	Analytical and Bioanalytical Chemistry	3
EN1001	Environmental Chemistry	3
EM5101	Environmental Quality	3
EM5106	Environmental Impact Assessment	3
ES2002	Earth Materials	3
ES2004	Sedimentary Geology	3
ES2005	Geology of Earthquakes	3
ES2301	Principles of Heredity and Ecological Genetics	3

ES2302	Introduction to Field Ecology	2
ES2304	Microbes on Natural Ecosystems	3
ES2801	Introduction to Natural Hazards	3
ES3002	Structural Geology and Tectonics	3
ES3003	Introduction to Geochemistry	3
ES3004	Introduction to Geophysics	3
ES3005	Advanced Field Course in Geology	5
ES3008	E2S2 Research	3
ES3101	Petroleum Geology	3
ES3102	Global Tectonics	3
ES3103	Sea-level Rise & Coastal Processes	3
ES3301	Plant and Animal Physiology	3
ES3302	Tropical Ecology	3
ES3304	Advanced Placement in Ecology and Society	2
ES3305	Current Issues in Ecology	3
ES3306	Global Change Ecology	3
ES3307	Experimental Design & Analysis for Ecology	3
ES3801	Biogeochemistry	3
ES4002	Final Year Project	10
ES4003	Professional Internship	10
ES4004	Overseas Entrepreneurship Prog (12-month)	20
ES4006	Overseas Entrepreneurship Prog (6-month)	11
ES4010	Teaching in E2S2	4
ES4201	Environmental Management and Valuation	3
ES4301	Conservation Biology and Biodiversity	3
ES4303	Marine and Aquatic Ecology	3
ES4901	Oceanography	3
ES4902	Geophysical Data Analysis	3
ES4904	Volcanology	3
ES4911	Seismology	3
HP1100	Fundamentals of Social Science Research	3
PH1104 or PH1801	Mechanics or Foundations of Physics I	3
PH1106 or PH1802	Electricity and Magnetism or Foundations of Physics II	3
PH1105	Optics, Vibrations and Waves	3
PH1107	Relativity and Quantum Physics	3

PPGA Major Prescribed Electives		
Major Prescribed Electives (11 courses totaling 35 AUs)		
9 modules from the HA2xxx and HA3xxx basket + 2 modules from the HA4xxx basket		
Course Code	Course Title	AUs
Politics and International Relations		
HA2003	Politics and Government in Southeast Asia	3
HA2004	Theories in International Relations	3
HA2005	Contemporary Political Theory	3

HA2015	China in Africa	3
HA2017	Foreign Policy and Analysis	3
HA2026	American Foreign Policy	3
HA3004	United States and East Asia	3
HA3005	Politics of the Developing World	3
HA3014	Singapore's Foreign Policy	3
HA3015	Media and Politics	3
HA3016	China's Foreign Policy	3
HA3018	Borderless Migration	3
HA3019	East Asian Security	3
HA3020	Justice	3
HA3021	Comparative Politics in Asia	3
HA3022	The Origins of Modern Political Theory	3
HA3023	International Security	3
HA3024	China's Re-emergence in World Politics	3
HA3025	The Politics and Practice of International Diplomacy	3
HA3027	Comparative Regional Security Institutions: From Asia to Africa	3
HA3029	China & Southeast Asia In The 21st Century	3
HA4001	ASEAN in the 21st Century	4
HA4013	Advanced Topics in Democratic Theory: Democracy & Division	4
HA4014	European Union	4
HA4022	International Politics of the Asia-Pacific	4
HA4028	Global Perspectives on Politics and Policy	2
HA4029	Quantitative Approach to International Relations	4
HA4030	Interstate Conflict	4
HA4036	Power in International Relations: Order and Transition	4
HA4038	Critical International Theory	4
HA4064	Model United Nations	4
HA4065	Crisis Diplomacy	4
Public Policy and Administration		
HA2009	The Making of E-government	3
HA2011	Cost-benefit Analysis in Public Policy	3
HA2014	Public Organization and Management	3
HA2020	Socio-Political Analysis in Public Policy	3
HA2023	Research Methods in Social Sciences	3
HA2024	Statistical Analysis for Public Affairs 1	3
HA2027	Introduction to Quantitative Social Sciences	3
HA3001	Political Analysis of Public Policy	3
HA3007	Public Budgeting and Financial Management	3
HA3010	Mass Media and Public Policy	3
HA3018	Borderless Migration?	3

HA3026	Crisis Leadership and Management	3
HA3028	Political Parties and Elections	3
HA3030	Innovation Management & Policy	3
HA3032	Urban Politics and Policy-making	3
HA4006	Special Topic in Public Administration	4
HA4011	Public Administration: Past, Present & Future	4
HA4017	Economics Issues for Public Decision Making	4
HA4018	Policy Evaluation	4
HA4025	Designing and Conducting Qualitative Research	4
HA4026	Selected Topics in Health Care and Ageing	4
HA4031	Human Capital Management in the Government	4
HA4032	What is a City?	4
HA4033	Political Theory and Psychoanalysis	4
HA4034	Causal Inference In Policy Evaluation	4
HA4035	Food Politics and Policies	4
HA4039	Knowledge Politics	4
HA4040	Health, Disease Outbreaks & Politics	4
HA4041	Film & Political Theory	4
HA4066	War in Film	4
HU1002	Introduction to Urban Planning	3
HU2002	Urban Life, Design and Policy	3

ICC (University Level)

Courses	No of AU	Semester
Inquiry and Communication in an Interdisciplinary World	2	Year 1 Sem 1
Ethics & Civics in a Multi-Cultural World	2	Year 1 Sem 1
Navigating the Digital World	2	Year 1 Sem 2
Healthy Living & Mental Wellbeing	3	Year 1 Sem 2
Career & Entrepreneurial Development for the Future World	2	Year 2 Sem 2
Science & Technology for Humanity	3	Year 2 Sem 1
Sustainability: Human, Social, Economic & Environment	3	Year 2 Sem 1
Total AU	17	

ICC (College Level)

Courses	No of AU	Semester
Fundamentals of Data Science for Earth and Environmental Systems Science	3	Year 3 Sem 2
Communication course	2	Year 3
Professional Attachment	5	Year 4
Total AU	10	

Programme Title	Year of Study	Number of Academic Units (AUs)					
		Major Requirement		Interdisciplinary Collaborative Core		Broadening and Deepening Electives	Total
		Core	Major Prescribed Electives	Common Core	Foundational Core		
Environmental Earth System Science and Public Policy and Global Affairs	1	33		9			42
	2	26	9	8			43
	3	9	21		5		35
	4		20		5	3	28
	Total	68	50	17	10	3	148

Proposed timetable for students in ESPP Specialisation (AY21-22 onwards)

	Course Code	Course Title	Type	AU
Year 1 Semester 1	ES0138	Introduction to Scientific Writing	Core	2
	ES1001	E2S2 Environment and Society	Core	4
	MH1802	Calculus for the Sciences	Core	4
	HA1001	Introduction to International Relations and Foreign Policy	Core	3
	HA1012	Fundamentals of Politics	Core	3
	CC0001	Inquiry and Communication in an Interdisciplinary World	ICC	2
	CC0003	Ethics & Civics in a Multi-Cultural World	ICC	2
				Total AUs

	Course Code	Course Title	Type	AU
Year 1 Semester 2	ES1003	E2S2 Solid Earth	Core	4
	ES1007	Climate Change	Core	3
	ES2003	E2S2 Biosphere	Core	4
	HA1003	Introduction to Public Administration and Policy	Core	3
	HA1011	Politics of Singapore	Core	3
	CC0002	Navigating the Digital World	ICC	2
	CC0005	Healthy Living & Mental Wellbeing	ICC	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 2 Semester 1	ES1006	Introductory Field Experience [will be registered separately and does not count towards total AU for the semester]	Core	4
	ES2001	Computational Earth Systems Science	Core	4
	ES2802	GIS and the Earth System	Core	3
	HA1002	Introduction to Political Theory	Core	3
	CC0006	Sustainability: Human, Social, Economic & Environment	ICC	3
	CC0007	Science & Technology for Humanity	ICC	3
	XXX	MAJOR PE	MPE	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 2 Semester 2	ES0001	The Physical Environments of Singapore[can be taken in Y3S2]	Core	3
	ES2303*	Introduction to Ecology [can be taken in Y3S2]	Core	3
	ES2201	Law & Economics, Sustainable Development and Environmental Protection	Core	3
	ES2202*	Global Environmental Politics and Governance	Core	3
	ML0004	Career & Entrepreneurial Development for the Future World	ICC	2
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 3 Semester 1	BS1008/MH2500	Pre-requisite for MH3511	MPE	3/4
	ES3202	Resilient Urban Systems	Core	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 3 Semester 2	MH3511	Data Analytics with Computer [can be taken on exchange/Y4S2]	Core	3
	ES3201*	Coupled Human and Natural Systems	Core	3
	ICC	Second Communication Course	ICC	2
	ES0002	Fundamentals of Data Science for Earth and Environmental Systems Science	ICC	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
				Total AUs

	Course Code	Course Title	Type	AU
Year 4 Semester 1	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	3
			Total AUs	15

	Course Code	Course Title	Type	AU
Year 4 Semester 2	ES4007	Professional Attachment	ICC	5
	XXXX	MAJOR PE	Major PE	3
	XXXX	MAJOR PE	Major PE	2
	XXXX	Broadening Elective	BE	3
			Total AUs	13