Graduation Requirements for BES XDP Cohorts AY2021/2022 onwards

Requirements (*Refer to Note 1)			MCs	Sub Totals	Sub Totals Major
GE + CHS Modules			44	44	
2000-level Biology Core (Choose 1)		**2000-level Geography Core (Choose 1)**	8	52	8
LSM2251 Ecology & Environment	4	GE2101 Methods and Practices in Geography	4		
LSM2252 Biodiversity	4	GE2102 Politics, Economies And Space	4		
		GE2215 Introduction to GIS	4		
		GE2231 Living space: Introducing Social and Cultural Geographies	4		
3000-level Biology Core (Choose 2)		**3000-level Geography Core (Choose 2)**	16	68	24
LSM3252 Evolution and Comparative Genomics	4	GE3226 Tourism and Development	4		
LSM3254 Ecology of Aquatic Environments	4	GE3231 Natural Hazards	4		
LSM3255 Ecology of Terrestrial Environments	4	GE3238: GIS Design and Practices	4		
LSM3256 Tropical Horticulture	4	GE3216 Applications of GIS and Remote Sensing	4		
LSM3258 Comparative Botany	4	XD3103 Planet Earth	4		
LSM3259 Fungal Biology	4	GE3240 Geographical Research: Developing Ideas (*compulsory if taking GE4401)	4		
LSM3265 Entomology	4	GE3250 Nature and Society	4		
LSM3266 Avian Biology and Evolution	4	GE3251 Southeast Asia	4		
LSM3267 Behavioural Biology	4	GE3253 Weather and Climate	4		
LSM3272 Global Change Biology	4	GE3254 Energy Futures: Environment and Sustainability	4		
		GE3255 Aquatic, Riparian and Coastal Systems	4		
		GE3256 Earth Surface Processes, Landforms and Ecosystems	4		
		GE3259 Applied Geographical Data Science	4		

Requirements (*Refer to Note 1)			MCs	Sub Totals	Sub Totals Major
4000-level Biology Core (Choose 1)		**4000-level Geography Core (Choose 1)** *Refer to Note 1	8	76	32
LSM4251 Plant Growth and Development	4	GE4207 Coastal Management	4		
LSM4254 Principles of Taxonomy and Systematics	4	GE4211 Advanced Hydrology and Water Resources Management	4		
LSM4255 Methods in Mathematical Biology	4	GE4212 Environmental Modelling	4		
LSM4256 Evolution of Development	4	GE4214 Remote Sensing of Environment	4		
LSM4257 Aquatic Vertebrate Diversity	4	GE4218 Interpreting Tourism Space and Cultures	4		
LSM4259 Evolutionary Genetics of Reproduction	4	GE4219 Development and Environment in Southeast Asia	4		
LSM4260 Plankton Ecology	4	GE4220 Field Investigation in Physical Geography	4		
LSM4261 Marine Biology	4	GE4221 Field Investigation in Human Geography	4		
LSM4262 Tropical Conservation Biology	4	GE4222 Advanced Geomorphology	4		
LSM4263 Field Studies in Biodiversity	4	GE4224 Applied Biogeography	4		
LSM4264 Freshwater Biology	4	GE4227 Climate Change: Processes, Impact and Responses	4		
LSM4266 Aquatic Invertebrate Diversity	4	GE4232 Global and Political Ecologies	4		
LSM4267 Light & Vision in Animal Communication	4	GE4233 Geography in the Contemporary World	4		
LSM4268 Environmental Bioacoustics	4	GE4234 Environmental Change in the Tropics	4		
LSM4351 Vegetation and Plant Diversity of Southeast Asia	4	GE4235 Urban Climate	4		
		GE4237 Environmental Pollution	4		
		GE4239 Coastal Dynamics	4		
		GE4240 Spatial Decision-Making	4		
		GE4241 Spatial Health	4		
Common Core Modules (Choose 2 from two different levels)			8	84	40
EC2383 Environmental Economics			4		
ESE2000 Chemistry for an Environmentally Sustainable Future			4		
HY2235 Environmental History			4		
LAD2004 Planting Design and Horticulture			4		
PH2216 Environmental Philosophy or PH2226 Concept of Nature in Inquiry			4		
RE2701 Urban Planning			4		

Requirements (*Refer to Note 1)	MCs	Sub Totals	Sub Totals Major
SC2207 / AN2203 Peoples & Cultures of Southeast Asia	4		
SC2221 / AN2206 Humans and Nature	4		
One level 2000 or level 3000 YID-coded Environmental Studies module or YSS3229 Urbanisation and the Environment (max 5 MC can count to Major)	5		
ESE3101 Solid and Hazardous Waste Management	4		
ESE3201 Air Quality Management	4		
ESE3301 Environmental Microbiological Principles	4		
LAD3006 Basics of Ecology	4		
PF3504 Energy Management	4		
PS3274 Environmental Politics	4		
RE3901 Advanced Urban Planning	4		
SC3212 Southeast Asia in a Globalizing World	4		
Common Core Modules (take all or as indicated)	**16**	**100**	**56**
GE2103 Our Planet: an Earth Systems Science Perspective	4		
LSM3257 Applied Data Analysis in Ecology and Evolution	4		
LSM4288E FYP or GE4401 HT (refer to Note 2) or Take 2 additional "4000-level Biology Core" or "4000-level Geography Core" elective modules	8		
Integrated Modules (take all or as indicated)	**36**	**132**	**92**
ENV1101 Environmental Studies: An Interdisciplinary Overview (the only 1000-level major module)	4		
ENV2302 Communications for Environmental Studies	4		
ENV2301 Methods and Techniques for Environmental Studies	4		
ENV2102 Environmental Law	4		
ENV2103 The Environment and Public Health	4		
ENV3101 Environmental Challenges in Asia or ENV3202A Environmental Studies Internship Programme (max 4 MC can count to Major)	4		
ENV3104 Socio-Ecological Assessment of Environmental Impacts or UROP(GE3551)/UROPS(LSM3288)/UROPES(ENV3288) (max 4 MC can count to Major)	4		
ENV3102 Field Course in Environmental Studies	4		
ENV4101 Environmental Management in Singapore	4		
Unrestricted Electives	**24**	**160**	
Total		**160**	

Placeholder module	BES Major requirement
ENV2991 (4 MCs)	Fulfils any Level 2000 elective in the BES XDP major requirements
ENV3991 (4 MCs)	Fulfils any Level 3000 elective in the BES XDP major requirements
ENV4991 (4 MCs)	Fulfils any Level 4000 elective in the BES XDP major requirements