

BACHELOR OF ENVIRONMENTAL SCIENCE—DEGREE PLANNER 2007

(NB: The plans presented below are designed for full-time candidates)

Credit Points Required = 144 including all units listed in Groups 1, 2 and 3. All programs must include units counting at least 24 credit points at 300 or 400 level in addition to the prescribed 300-level units.

You are able to complete a “general” Bachelor of Environmental Science or you must complete one of the course work programs listed below.

In the first instance, you should contact the Faculty Office [email: ppurvis@une.edu.au or telephone: 02 6773 3106] in relation to any questions about your planned program of study

With the approval of the Faculty, other units offered by the University may be substituted for one or more of the approved units listed below.

Before planning your unit choices please refer to the Schedule of Units.

Approved Units:

Group 1: BIOL 110, 120; BIOP 112; CHEM 110 or 130; MATH 110 and STAT 100 or MATH 101 and 102

Group 2: BOTY 211; ECOL 210; EM 234; EM 251 or ZOOL 230

Group 3: EM 312, 331

Group 4: ABAR 303, 343, 358, 383; AGEX 310; AGRO 321; ANPR 211 or ANSC 200; BCHM 210, 330; BOTY 241/341, 355, 260/360, 270/370; BIOL 301, 302; CHEM 120, 203; COMP 100, 160; ECON 329; ECOL 202, 220, 311, 307; EM 311, 351, 422, 423, 432, 433, 425, 452, 453, 454; ENVE 352, 361, 421, 423, 433, 434, 436; EVOL 211/311; GEAR 310; GENE 210, 322; GEOL 110, 120, 205, 207, 303; GEPL 311, 341; MSM 301, 302, 304, 305, 306, 307, 308; NR 331, 411; PDAB 100, 101, 200, 201, 202; RSNR 110, 120; 421; SCI 395 or NR 481; SOIL 220, 310; STAT 200; WORK 300; ZOOL 210, 220, 326, 327, 328.

GENERAL

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I or CHEM130 Chemistry in Context MATH110 Introductory Mathematical Methods or MATH 101 Algebra and Differential Calculus plus one unit from Group 4
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics or STAT100 Statistical Modelling in the Science I plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology plus two units from Group 4
	2	EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts or ZOOL230 Vertebrate Zoology plus two units from Group 4
Third	1	EM312 Impact Assessment in Natural Resources Management EM 331 Resource Survey and Habitat Evaluation plus two units from Group 4
	2	four units from Group 4

BIODIVERSITY CONSERVATION

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I <i>or</i> CHEM130 Chemistry in Context MATH110 Introductory Mathematical Methods <i>or</i> MATH 101 Algebra and Differential Calculus plus one unit from Group 4
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics <i>or</i> STAT100 Statistical Modelling in the Sciences I plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology GENE210 Introductory Genetics plus one unit from Group 4
	2	ECOL202 Aquatic Ecology <i>or</i> ECOL220 Australasian Terrestrial Ecology EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts <i>or</i> ZOOL230 Vertebrate Zoology EVOL211* Evolution and Biogeography * <i>or</i> EVOL311 in Year 3 plus one unit from Group 4 if EVOL311 taken in Year 3
Third	1	EM312 Impact Assessment in Natural Resources Management EM 331 Resource Survey and Habitat Evaluation plus one elective unit from Group 4 if EM 453 taken in Semester 1 or two elective units from Group 4 if EM 423 taken in Semester 2
	2	EVOL311* Evolution and Biogeography * <i>or</i> EVOL211 in Year 2 plus two elective units from Group 4 if EM 423 taken in Semester 2 or three elective units if EM 453 taken in Semester 1
	1 or 2	EM453 Biological Conservation <i>or</i> EM423 Wildlife Management

ENVIRONMENTAL REHABILITATION

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I <i>or</i> CHEM130 Chemistry in Context GEOL110* Geology and the Environment I MATH110 Introductory Mathematical Methods <i>or</i> MATH 101 Algebra and Differential Calculus * <i>or</i> can be taken in Year 2 plus one unit from Group 4 if GEOL110 taken in Year 2
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics <i>or</i> STAT100 Statistical Modelling in the Sciences plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology EM 331 Resource Survey and Habitat Evaluation GEOL110* Geology and the Environment I * <i>or</i> can be taken in Year 1 plus one unit from Group 4 if GEOL110 taken in Year 1
	2	ECOL202 Aquatic Ecology <i>or</i> ECOL220 Australasian Terrestrial Ecology EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts <i>or</i> ZOOL230 Vertebrate Zoology SOIL220 Introduction to Soil Science
Third	1	EM312 Impact Assessment in Natural Resources Management EM331 Resource Survey and Habitat Evaluation NR411 Natural Resource Policy and the Community plus one unit from Group 4
	2	four units from Group 4

GEOGRAPHIC INFORMATION SCIENCE

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I <i>or</i> CHEM130 Chemistry in Context MATH110 Introductory Mathematical Methods <i>or</i> MATH 101 Algebra and Differential Calculus plus one unit from Group 4
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics <i>or</i> STAT100 Statistical Modelling in the Science I plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology plus two units from Group 4
	2	EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts <i>or</i> ZOOL230 Vertebrate Zoology plus two units from Group 4
Third	1	EM312 Impact Assessment in Natural Resources Management EM 331 Resource Survey and Habitat Evaluation NR481* Special Topic in Natural Resources Management <i>or</i> SCI395* Science Report <i>* or can be taken in Semester 2</i> plus two units from Group 4 if NR 481 or SCI 395 taken in Semester 2
	2	EM432 Remote Sensing and Image Analysis EM433 Spatial Analysis and Modelling NR331 Remote Sensing and Surveying plus one unit from Group 4 if NR 481 or SCI 395 taken in Semester 1

INDIGENOUS LAND MANAGEMENT

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I <i>or</i> CHEM130 Chemistry in Context MATH110 Introductory Mathematical Methods <i>or</i> MATH101 Algebra and Differential Calculus PDAB100 Australian Indigenous Societies and Colonisation
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics <i>or</i> STAT100 Statistical Modelling in the Science I PDAB101 Issues in Contemporary Indigenous Societies
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology PDAB200 Analysing Indigenous Australian Policy Issues plus one unit from Group 4 if PDAB 202 taken in Semester 2
	2	EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts <i>or</i> ZOOL230 Vertebrate Zoology PDAB201 Analysing Change in Indigenous Societies plus one unit from Group 4 if PDAB 202 taken in Semester 1
	1 or 2	PDAB 202 Principles of Aboriginal Community Development
Third	1	EM312 Impact Assessment in Natural Resources Management EM 331 Resource Survey and Habitat Evaluation plus two units from Group 4
	2	ABAR303 Aboriginal Archaeology plus three units from Group 4

SUSTAINABLE ECOSYSTEMS - AQUATIC

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I or CHEM130 Chemistry in Context GEOL110* Geology and the Environment I MATH110 Introductory Mathematical Methods or MATH 101 Algebra and Differential Calculus <i>* or can be taken in Year 2</i> plus one unit from Group 4 if GEOL110 taken in Year 2
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics or STAT100 Statistical Modelling in the Science I plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology GEOL110* Geology and the Environment ZOOL210 Invertebrate Zoology <i>* or can be taken in Year 1</i> plus one unit from Group 4 if GEOL 110 taken in Year 1
	2	ECOL202 Aquatic Ecology EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts or ZOOL230 Vertebrate Zoology plus one unit from Group 4
Third	1	EM312 Impact Assessment in Natural Resources Management EM331 Resource Survey and Habitat Evaluation ENVE352 Principles of Hydrology plus one unit from Group 4
	2	ENVE421 Water and Catchment Management plus three units from Group 4

SUSTAINABLE ECOSYSTEMS - MARINE

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I <i>or</i> CHEM130 Chemistry in Context MATH110 Introductory Mathematical Methods or MATH 101 Algebra and Differential Calculus plus one unit from Group 4
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics or STAT100 Statistical Modelling in the Science I plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology ZOOL210 Invertebrate Zoology plus one unit from Group 4
	2	ECOL202 Aquatic Ecology EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts or ZOOL230 Vertebrate Zoology plus one unit from Group 4
Third	1	EM312 Impact Assessment in Natural Resources Management EM331 Resource Survey and Habitat Evaluation or MSM302 Sampling Survey and Design MSM301 Successful Sampling MSM304 Marine Communities as Sentinels of Change
	2	MSM306 Sustainable Use of the Marine Environment MSM 308 Coral Reefs on the Edge plus two units from Group 4

SUSTAINABLE ECOSYSTEMS - TERRESTRIAL

Year	Semester	Unit
First	1	BIOL110 Biology I CHEM110 General Chemistry I or CHEM130 Chemistry in Context MATH110 Introductory Mathematical Methods or MATH 101 Algebra and Differential Calculus plus one unit from Group 4
	2	BIOL120 Biology II BIOP 112 Biophysics II MATH102 Integral Calculus, Differential Equations and Introductory Statistics or STAT100 Statistical Modelling in the Science I plus one unit from Group 4
Second	1	BOTY211 Plant Taxonomy ECOL210 Principles of Ecology plus two units from Group 4
	2	ECOL202 Aquatic Ecology or ECOL220 Australasian Terrestrial Ecology EM234 Introduction to GIS EM251 Australian Wildlife: Evolution, Ecology and Land-use Impacts or ZOOL230 Vertebrate Zoology SOIL220 Introduction to Soil Science
Third	1	EM311 Land Assessment for Sustainable Use EM312 Impact Assessment in Natural Resources Management EM331 Resource Survey and Habitat Evaluation EM422 National Park and Wilderness Management or EM425 Vegetation Management
	2	NR411 Resource Policy and the Community RSNR421 Sustainable Agriculture and Catchment Management plus two units from Group 4