

Bachelor of Science: Majors and Double Majors relevant to the study of Ecology, Conservation Biology, Genetics, Animal and Plant Biology at the ANU

ZOOLOGY	PLANT SCIENCE	ECOLOGY & EVOLUTION	ECOLOGY & EVOLUTION DOUBLE MAJOR	GENETICS	GENETICS DOUBLE MAJOR
<p>Minimum of 42 units must include:</p> <p>BIOL1009 Diversity of Life</p> <p>At least 6 units of:</p> <p>BIOL2154 Evolution of Biodiversity BIOL2111 Australian Wildlife BIOL2112 Marine Biology</p> <p>At least 18 units of:</p> <p>BIOL3103 Sensory Physiology & Anim Behaviour BIOL3115 Entomology BIOL3131 Evolutionary & Behavioural Ecology BIOL3132 Field Studies in Behavioural Ecology BIOL3138 Special Topics in Ecology, Evolution & Systematics † BIOL3139 Special Topics in Ecology, Evolution & Systematics † BIOL3142 Parasitology BIOL3151 Population Genetics BIOL3116 Marine Ecology BIOL3153 Conservation Biology EMSC3019 Carbonate Reef Field Studies</p> <p>At least 12 units of:</p> <p>STAT3008 Applied Statistics Any course with BIOL prefix Any course with a BIAN prefix</p>	<p>Minimum of 42 units must include:</p> <p>BIOL1009 Diversity of Life</p> <p>At least 6 units of:</p> <p>BIOL2121 Plants: genes to environment BIOL2122 Australian Plant Diversity BIOL2142 General Microbiology *** ENVS2016 Landforms & Soils: Landscape Syst 2 ENVS2019 Vegetation Ecology: Landscape Syst 1</p> <p>At least 18 units of:</p> <p>BIOL3102 Ecology of Disease BIOL3116 Marine Ecology BIOL3125 Plants and Global Climate Change BIOL3138 Special Topics in Ecology, Evolution & Systematics † BIOL3139 Special Topics in Ecology, Evolution & Systematics † BIOL3177 Advances in Molecular Plant Science *** BIOL3153 Conservation Biology</p> <p>At least 12 units of:</p> <p>ENVS3014 Ecological Restoration Management ENVS3008 Fire in the Environment STAT3008 Applied Statistics</p> <p>*** Prerequisites for BIOL2142 and BIOL3177 are BIOL1004 and CHEM1201</p>	<p>Minimum of 42 units must include:</p> <p>BIOL1003 Evolution, Ecology & Genetics</p> <p>At least 6 units of:</p> <p>BIOL2131 Population Ecology BIOL2151 Introductory Genetics BIOL2154 Evolution of Biodiversity</p> <p>At least 18 units of:</p> <p>BIOL3102 Ecology of Disease BIOL3103 Sensory Physiology & Anim Behaviour BIOL3115 Entomology BIOL3125 Plants and Global Climate Change BIOL3131 Evolutionary & Behavioural Ecology BIOL3132 Field Studies in Behavioural Ecology BIOL3138 Special Topics in Ecology, Evolution & Systematics † BIOL3139 Special Topics in Ecology, Evolution & Systematics †</p> <p>At least 12 units of:</p> <p>ENVS2015 Introduction to Remote Sensing & GIS ENVS2004 Weather, climate & Fire ENVS2016 Landforms & Soils: Landscape Syst 2 ENVS2019 Vegetation Ecology: Landscape Syst 1 ENVS3005 Water Resource Management ENVS3008 Fire in the Environment ENVS3013 Climatology ENVS3020 Climate Change Science & Policy ENVS3029 Palaeoenvironmental Reconstruction</p> <p>Any course with BIOL prefix Any course with a BIAN prefix</p>	<p>Minimum of 60 units must include:</p> <p>BIOL1003 Evolution, Ecology & Genetics BIOL2131 Population Ecology BIOL2151 Introductory Genetics BIOL2154 Evolution of Biodiversity</p> <p>At least 30 units of:</p> <p>BIOL3102 Ecology of Disease BIOL3103 Sensory Physiology & Anim Behaviour BIOL3115 Entomology BIOL3116 Marine Ecology BIOL3122 Plant Ecology BIOL3125 Plants and Global Climate Change BIOL3131 Evolutionary & Behavioural Ecology BIOL3132 Field Studies in Behavioural Ecology BIOL3138 Special Topics in Ecology, Evolution & Systematics † BIOL3139 Special Topics in Ecology, Evolution & Systematics †</p> <p>At least 6 units of:</p> <p>ENVS2015 Introduction to Remote Sensing & GIS ENVS2004 Weather, climate & Fire ENVS2016 Landforms & Soils: Landscape Syst 2 ENVS2019 Vegetation Ecology: Landscape Syst 1 ENVS3005 Water Resource Management ENVS3008 Fire in the Environment ENVS3013 Climatology ENVS3020 Climate Change Science & Policy ENVS3029 Palaeoenvironmental Reconstruction</p> <p>Any course with BIOL prefix Any course with a BIAN prefix</p>	<p>Minimum of 42 units must include:</p> <p>At least 6 units of:</p> <p>BIOL1003 Evolution, Ecology & Genetics BIOL1004 Molecular Biology</p> <p>At least 6 units of:</p> <p>BIOL2151 Introductory Genetics BIOL2152 Advances in Human Genetics BIOL2161 Genes: Replication & Expression BIOL2162 Molecular Biotechnology</p> <p>At least 18 units of:</p> <p>BIOL3131 Evolutionary & Behavioural Ecology BIOL3138 Special Topics in Ecology, Evolution & Systematics † BIOL3139 Special Topics in Ecology, Evolution & Systematics † BIOL3151 Population Genetics BIOL3157 Advanced Genetics & Bioinformatics BIOL3161 Genomics and its Applications BIOL3177 Advances in Molecular Plant Science BIOL3181 Current Topics in Development & Molecular Biology **</p> <p>At least 12 units of:</p> <p>BIOL3174 Research Projects * BIOL3175 Research Projects * BIOL3191 Biotechnology in Context</p> <p>At least 12 units of:</p> <p>BIAN2115 Race and Human Genetic Variation STAT3008 Applied Statistics Any course with a BIOL prefix</p>	<p>Minimum of 60 units must include:</p> <p>BIOL1003 Evolution, Ecology & Genetics BIOL1004 Molecular Biology BIOL2151 Introductory Genetics BIOL2161 Genes: Replication & Expression BIOL3157 Advanced Genetics & Bioinformatics BIOL3161 Genomics and its Applications</p> <p>At least 24 units of:</p> <p>BIOL3131 Evolutionary & Behavioural Ecology BIOL3138 Special Topics in Ecology, Evolution & Systematics † BIOL3139 Special Topics in Ecology, Evolution & Systematics † BIOL3151 Population Genetics BIOL3174 Research Projects * BIOL3175 Research Projects * BIOL3177 Advances in Molecular Plant Science BIOL3181 Current Topics in Development & Molecular Biology ** BIOL3191 Biotechnology in Context STAT3008 Applied Statistics</p>
<p>BIOL1003 and BIOL1004 are strongly recommended (but not compulsory) as the two courses that should be done by all students intending to major in any area of biology.</p>					
<p>Students can take a maximum of FOUR first year biology courses</p>					
<p>When planning majors, students should first check the prerequisite requirements for each later-year course. First year students who plan to major in Biology should use Package 2 as a guide (see Handbook for details)</p>					
				<p>All students are encouraged to take at least one CHEMISTRY course. Students taking later year BaMBi courses must complete both first year Chemistry courses: CHEM1101 and CHEM1102 Chemistry courses have a school prerequisite. See Handbook for details. † Specialised BoZo third year courses available only with permission * Specialised BaMBi third year courses available only with permission ** The prerequisite for BIOL3181 is BIOL3161</p>	