

BIOLOGY COURSE PLANNER 2009

CELL & MOLECULAR BIOLOGY	IMMUNOLOGY & MICROBIOLOGY	PHYSIOLOGY	NEUROSCIENCE	GENETICS	GENETICS DOUBLE MAJOR
<p>Minimum of 42 units must include:</p> <p>BIOL1004 Biology II: Molecular Biology BIOL2161 Genes: Replication & Expression</p> <p>At least 18 units of:</p> <p>BIOL3101 Cellular Neuroscience BIOL3112 Sensory Neuroscience BIOL3141 Infection & Immunity BIOL3142 Parasitology BIOL3144 Molecular Immunology BIOL3161 Genomics & Applications BIOL3177 Advances in Molecular Plant Science BIOL3181 Current Topics in Developmental & Molecular Biology **</p> <p>BIOL3174 Research Projects † BIOL3175 Research Projects † BIOL3191 Biotechnology in Context</p> <p>Choice of 12 units from any of the above, not already included, or:</p> <p>BIOL1007 Living Cells BIOL2142 General Microbiology BIOL2162 Molecular Biotechnology BIOL2171 Biochemistry & Nutrition BIOL2174 Cell Physiology in Health & Disease BIOL2176 Introductory Human Anatomy BIOL2191 Ecology, Health & Disease</p> <p>STUDENTS MUST ALSO TAKE CHEM1101 and CHEM 1201</p>	<p>Minimum of 42 units must include:</p> <p>BIOL1004 Biology II: Molecular Biology BIOL2142 General Microbiology BIOL2161 Genes: Replication & Expression BIOL3141 Infection & Immunity BIOL3142 Parasitology BIOL3144 Molecular Immunology</p> <p>At least 6 units of:</p> <p>BIOL1007 Living Cells BIOL2191 Ecology, Health & Disease BIOL3102 Ecology of Disease BIOL3151 Population Genetics BIOL3174 Research Projects † BIOL3175 Research Projects †</p> <p>STUDENTS MUST ALSO TAKE CHEM1101 and CHEM 1201</p>	<p>Minimum of 42 units must include:</p> <p>BIOL1004 Biology II: Molecular Biology BIOL2103 Human Physiology BIOL2174 Cell Physiology in Health & Disease BIOL3101 Cellular Neuroscience BIOL3103 Sensory Physiology & Animal Behaviour BIOL3192 Human Nutrition & Population Health</p> <p>At least 6 units of:</p> <p>BIOL1007 Living Cells BIOL2171 Biochemistry & Nutrition BIOL2176 Introductory Human Anatomy BIOL2191 Ecology of Health & Disease BIOL3112 Sensory Neuroscience</p> <p>STUDENTS MUST ALSO TAKE CHEM1101 and CHEM 1201</p>	<p>Minimum of 42 units Must include:</p> <p>BIOL2174 Cell Physiology in Health & Disease PSYC2007 Biological Basis of Behaviour</p> <p>At least 18 units of:</p> <p>BIOL3101 Cellular Neuroscience BIOL3112 Sensory Neuroscience PSYC3011 Perception PSYC3016 Issues in Behavioural Neuroscience</p> <p>Remainder of required courses chosen from:</p> <p>PSYC1004 Introduction to Psychology II BIOL2176 Introductory Human Anatomy BIOL2161 Genes, Replication and Expression PSYC2008 Visual Perception and Cognition PSYC3103 Sensory Physiology and Animal Behaviour</p> <p>STUDENTS MUST ALSO TAKE CHEM1101 and CHEM 1201</p>	<p>Minimum of 42 units must include:</p> <p>At least 6 units of:</p> <p>BIOL1003 Biology I: Evolution, Ecology & Genetics BIOL1004 Biology II: 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 and Bioinformatics BIOL3177 Advances in Molecular Plant Science BIOL3181 Current Topics in Developmental & Molecular Biology **</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 Biology I: Evolution, Ecology & Genetics BIOL1004 Biology II: Molecular Biology BIOL2151 Introductory Genetics BIOL2161 Genes: Replication & Expression BIOL3157 Advanced Genetics and 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 Developmental & Molecular Biology **</p> <p>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>Students should check pre-requisites for all courses on study@ when planning majors</p>		<p>Chemistry courses have a school prerequisite.</p>			<p>NOTES:</p>
<p>A Double Major in Cell & Molecular Biology requires an additional 18 units of appropriate Group C courses</p>		<p>Information about the Chemistry Bridging Course is available on: http://chemistry.anu.edu.au/student/bridging/index.php</p>			<p>† Specialised third year courses available only with permission ** The prerequisite for BIOL3181 is BIOL3161</p>

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PLANT SCIENCE	ZOOLOGY	MARINE BIOLOGY	EVOLUTION & ECOLOGY	EVOLUTION & ECOLOGY DOUBLE MAJOR	CONTACT INFORMATION
<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 Sys 1 ENVS2019 Vegetation Ecology: Landscape Sys 2</p> <p>At least 18 units of:</p> <p>BIOL3102 Ecology of Disease 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 BIOL3116 Marine Ecology BIOL3153 Conservation Biology</p> <p>At least 12 units of:</p> <p>ENVS3014 Ecological Restoration & Management ENVS3008 Fire in the Environment STAT3008 Applied Statistics Any course with a BIOL prefix</p>	<p>Minimum of 42 units must include:</p> <p>BIOL1009 Diversity of Life</p> <p>At least 6 units of:</p> <p>BIOL2111 Australian Vertebrates BIOL2112 Marine Biology BIOL2154 Evolution of Biodiversity</p> <p>At least 18 units of:</p> <p>BIOL3103 Sensory Physiol & 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 Coral 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>EMSC1006 Blue Planet CHEM1101 Chemistry 1 CHEM1201 Chemistry 2 BIOL1009 Diversity of Life</p> <p>At least 12 units of:</p> <p>BIOL2112 Marine Biology EMSC2015 Chemistry of Earth & Ocean EMSC2019 Marine Palaeontology & Evol of Life ENVS2004 Weather, climate & Fire MATH2305 Differential Equations & Applications</p> <p>At least 18 units of:</p> <p>BIOL3116 Marine Ecology BIOL3138 Special Topics † EMSC3023 Global Cycles II Modern Oceans EMSC3029 Ocean & Atmosphere Modelling EMSC3050 Special Topics in Geology † EMSC3019 Coral Reef Field Studies EMSC3027 Global Cycles & Palaeoceanography PHYS3034 Physics of Fluid Flow PHYS3042 Research Topics in Physics † ENVS3042 Climatology ENVS Independent Research Topic †</p>	<p>Minimum of 42 units must include:</p> <p>BIOL1003 Biology I: 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 Physiol & 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 † BIOL3151 Population Genetics BIOL3157 Advanced Genetics and Bioinformatics BIOL3116 Marine Ecology BIOL3153 Conservation Biology STAT3008 Applied Statistics BIOL3131 or BIOL3151</p> <p>At least 12 units of:</p> <p>ENVS2015 Introduction to Remote Sensing & GIS ENVS2004 Weather, Climate & Fire ENVS2016 Landforms & Soils: Landscape Sys 1 ENVS2019 Vegetation Ecology: Landscape Sys 2 ENVS3005 Water Resource Management ENVS3008 Fire in the Environment ENVS3013 Climatology ENVS3020 Climate Change Science & Policy ENVS3029 Palaeoenvironmental Reconstruction Any course with BIOL prefix Any course with a BIAN prefix</p>	<p>Minimum of 60 units must include:</p> <p>BIOL1003 Biology I: Evolution, Ecology & Genetics</p> <p>At least 12 units of:</p> <p>BIOL2131 Population Ecology BIOL2151 Introductory Genetics BIOL2154 Evolution of Biodiversity BIOL2112 Marine Biology</p> <p>At least 36 units of:</p> <p>BIOL3102 Ecology of Disease BIOL3103 Sensory Physiol & Anim Behaviour † BIOL3115 Entomology BIOL3116 Marine 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 † BIOL3151 Population Genetics BIOL3153 Conservation Biology BIOL3157 Advanced Genetics and Bioinformatics STAT3008 Applied Statistics BIOL3131 or BIOL3151</p> <p>At least 6 units of:</p> <p>ENVS2015 Introduction to Remote Sensing & GIS ENVS2004 Weather, Climate & Fire ENVS2016 Landforms & Soils: Landscape Sys 1 ENVS2019 Vegetation Ecology: Landscape Sys 2 ENVS3005 Water Resource Management ENVS3008 Fire in the Environment ENVS3013 Climatology ENVS3020 Climate Change Science & Policy ENVS3029 Palaeoenvironmental Reconstruction Any course with BIOL prefix Any course with a BIAN prefix</p>	<p>(02) 6125 2866 (02) 6125 2284 (02) 6125 9090</p> <p>e-mail: bambi.admin@anu.edu.au e-mail: bozo.enquiries@anu.edu.au</p> <p>For more information: http://cmbc.anu.edu.au/SoB</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. Students can take a maximum of FOUR first year biology courses</p>		<p>† Specialised third year courses available only with permission</p>		<p>All students are encouraged to take at least one CHEMISTRY course.</p>	