

2022 - BIOLOGY MAJORS, MINORS AND SPECIALISATIONS (crossed out courses not offered in 2022 but may be in future)

EVOLUTION ECOLOGY AND ORGANISMAL BIOLOGY MAJOR - EEOB	CELL AND MOLECULAR BIOLOGY MAJOR - CMBI	HUMAN BIOLOGY MAJOR - HBIO	BIOCHEMISTRY MAJOR - BCHM (shared with RSC)
<p>48 units must include:</p> <p>18 units from the following: BIOL1003 Biology 1: Evol, Ecol & Genetics BIOL1004 Biology 2: Mol & Cell Biology BIOL1009 Diversity of Life</p> <p>6 units from the following: BIOL2001 Intro to Quantitative Biology BIOL2202 Exp Design & Analysis in Biology ENVS1003 Intro to Env & Social Research PSYC2009 Quantitative Methods in Psych BIAN3014 Res Design & Analysis in Biol Anth</p> <p>12 units from the following: BIOL2114 Evolution BIOL2115 Comparative Physiology BIOL2131 Ecology BIOL2151 Genetics BIOL2203 Field Studies in Functional Ecology</p> <p>6 units from the following: BIOL3109 Developmental Biology BIOL3125 Plants & Global Climate Change BIOL3131 Behavioural Ecology BIOL3178 Recovering Threatened Species & Ecosystems BIOL3206 Evolution of Biodiversity BIOL3210 Appreciating Parasites: from molecules to ecosystems BIOL3213 Australian Wildlife BIOL3303 Adv Field Studies in Functional Ecology</p> <p>6 units from the following: BIOL3191 Bioethics and Society BIOL3201 Big Questions in Biology</p>	<p>48 units must include:</p> <p>24 units from the following: BIOL1003 Biology 1: Evol, Ecol & Genetics BIOL1004 Biology 2: Mol & Cell Biology BIOL2161 Genes: Replication & Expression BIOL2162 Molecular Gene Technology</p> <p>6 units from the following: BIOL2001 Intro to Quantitative Biology BIOL2202 Exp Design & Analysis in Biology ENVS1003 Intro to Env & Social Research PSYC2009 Quantitative Methods in Psych BIAN3014 Res Design & Anal in Biol Anth</p> <p>6 units from the following: BIOL2117 Cell Biology BIOL2142 General Microbiology BIOL2151 Genetics BIOL2171 Biochemistry & Nutrition BIOL2174 Cell Physiology in Health & Disease</p> <p>6 units from the following: BIOL3107 Adv in Medical & Plant Biochem BIOL3108 Hallmarks of Cancer BIOL3109 Developmental Biology BIOL3141 Infection and Immunity BIOL3142 Biomedical Parasitology BIOL3144 Adv & Applied Immunology BIOL3161 Genomics & its Application BIOL3177 Adv in Molecular Plant Science BIOL3188 ANU SynBio Challenge Team Project BIOL3203 Histology & Adv Microscopy BIOL3204 Genetics of Human Disease 1 BIOL3205 Genetics of Human Disease 2 BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u) BIOL3210 Appreciating Parasites: from molecules to ecosystems NEUR3101 Cellular Neuroscience</p> <p>6 units from the following: BIOL3191 Bioethics and Society BIOL3201 Big Questions in Biology</p>	<p>48 units must include:</p> <p>24 units from the following: BIOL1003 Biology 1: Evol, Ecol & Genetics BIOL1004 Biology 2: Mol & Cell Biology BIOL2161 Genes: Replication & Expression MEDN2001 Medical Physiology & Pharmacology</p> <p>6 units from the following: BIOL2001 Intro to Quantitative Biology BIOL2202 Exp Design & Anal in Biology ENVS1003 Intro to Env & Social Research PSYC2009 Quant Methods in Psych BIAN3014 Res Design & Anal in Biol Anth</p> <p>6 units from the following: BIOL2117 Cell Biology BIOL2142 General Microbiology BIOL2151 Genetics BIOL2171 Biochemistry & Nutrition BIOL2174 Cell Physiol in Health & Disease MEDN2222 Exquisite Corpse</p> <p>6 units from the following: BIOL3108 Hallmarks of Cancer BIOL3141 Infection and Immunity BIOL3142 Biomedical Parasitology BIOL3144 Advanced & Applied Immunology MEDN3186 Human Anatomy BIOL3204 Genetics of Human Disease 1 BIOL3205 Genetics of Human Disease 2 BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u) NEUR3101 Cellular Neuroscience NEUR3112 Systems Neuroscience BIAN3113 Human Evolution BIAN3124 Evolution of Human Behaviour BIAN3125 Ancient Health & Disease</p> <p>6 units from the following: BIOL3191 Bioethics and Society BIOL3201 Big Questions in Biology</p>	<p>48 units must include:</p> <p>24 units from the following: BIOL1004 Biology 2: Mol & Cell Biology BIOL2171 Biochemistry & Nutrition CHEM1201 Chemistry 2 CHEM2211 Chemical Biology 1</p> <p>6 units from the following Quant Skills: BIOL2001 Intro to Quantitative Biology BIOL2202 Exp Design & Analysis in Biology ENVS1003 Intro to Env & Social Research PSYC2009 Quantitative Methods in Psych BIAN3014 Res Design & Analysis in Biol Anth</p> <p>6 units from the following: BIOL2161 Genes: Replication & Expression BIOL2162 Molecular Gene Technology CHEM2208 Chemical Biology 2</p> <p>12 units from the following: BIOL3107 Adv in Medical & Plant Biochemistry BIOL3108 Hallmarks of Cancer BIOL3188 ANU SynBio Challenge Team Project BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u) CHEM3204 Structural Methods in Chem Biol CHEM3207 Current Topics in Chem Biol CHEM3060 Research Project in Chemistry</p>

EVOLUTION & ECOLOGY SPECIALISATION - EVEC	NEUROSCIENCE & PHYSIOLOGY SPECIALISATION - NEUR	BIOMEDICAL SCIENCE SPECIALISATION - BMSC	GENETICS SPECIALISATION - GENE
<p>24 units from the following: BIOL3109 Developmental Biology BIOL3131 Behavioural Ecology BIOL3132 Field Studies in Behaviour Ecol BIOL3142 Biomedical Parasitology BIOL3178 Recovering Threatened Species & Ecosystems BIOL3206 Evolution of Biodiversity BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u) BIOL3210 Appreciating Parasites: from molecules to ecosystems BIOL3213 Australian Wildlife BIOL3303 Adv Field Studies in Functional Ecology</p> <p>Co-requisite majors: Evolution, Ecology and Organismal Biology or Biodiversity Conservation</p>	<p>24 units must include:</p> <p>6 units from the following: BIOL2174 Cell Physiology in Health & Disease</p> <p>12 units from the following: NEUR3101 Cellular Neuroscience NEUR3112 Systems Neuroscience MEDN2001 Medical Physiology & Pharmacology</p> <p>6 units from the following: MEDN3186 Human Anatomy BIOL3203 Adv Microscopy in BioSc BIOL3208 Biology Research Project PSYC3016 Neuropsychology & Cognitive Neuroscience</p> <p>Co-requisite majors: Biochemistry or Cell and Molecular Biology or Human Biology or Psychology</p>	<p>24 units must include:</p> <p>6 units from the following: BIOL2117 Cell Biology BIOL2142 General Microbiology BIOL2151 Genetics BIOL2171 Biochemistry & Nutrition BIOL2174 Cell Physiology in Health and Disease MEDN2222 Exquisite Corpse: Insight into the Human Body MEDN2001 Medical Physiology & Pharmacology</p> <p>18 units from the following: BIOL3108 Hallmarks of Cancer BIOL3141 Infection & Immunity BIOL3142 Biomedical Parasitology BIOL3144 Advanced & Applied Immunology MEDN 3186 Human Anatomy BIOL3203 Advanced Microscopy and Histology BIOL3204 Genetics of Human Disease 1 BIOL3205 Genetics of Human Disease 2 BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u) BIOL3210 Appreciating Parasites: from molecules to ecosystems NEUR3101 Cellular Neuroscience NEUR3112 Systems Neuroscience</p> <p>Co-requisite majors: Cell and Molecular Biology or Human Biology or Biochemistry</p>	<p>24 units must include:</p> <p>6 units from the following: BIOL2151 Genetics BIOL2161 Genes: Replication & Expression</p> <p>18 units from the following: BIOL3108 Hallmarks of Cancer BIOL3109 Developmental Biology BIOL3157 Bioinformatics & Its Applications BIOL3161 Genomics & Its Applications BIOL3178 Recovering Threatened Species & Ecosystems BIOL3188 ANU SynBio Challenge Team Project BIOL3204 Genetics of Human Disease 1 BIOL3205 Genetics of Human Disease 2 BIOL3206 Evolution of Biodiversity BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u)</p> <p>Co-requisite majors: : Cell and Molecular Biology or Human Biology or Evolution, Ecology and Organismal Biology or Biochemistry or Biodiversity Conservation</p>

MICROBIOLOGY & IMMUNOLOGY SPECIALISATION - MBIM	PLANT SCIENCE SPECIALISATION - PLNT	BIOCHEMISTRY SPECIALISATION (Shared with RSC) - BCHM	BIOLOGY MINOR - BIOL
<p>24 units must include:</p> <p>12 units from the following: BIOL2142 General Microbiology BIOL3141 Infection & Immunity</p> <p>12 units from the following: BIOL3106 Biosecurity BIOL3188 ANU SynBio Challenge Team Project BIOL3142 Biomedical Parasitology BIOL3144 Adv & Applied Immunology BIOL3208/3209 Biology Research Project BIOL3210 Appreciating Parasites: from molecules to ecosystems</p> <p>Co-requisite majors: Cell and Molecular Biology or Human Biology or Evolution, Ecology and Organismal Biology or Biochemistry</p>	<p>24 units must include:</p> <p>6 units from the following: BIOL2114 Evolution BIOL2115 Comparative Physiology BIOL2117 Cell Biology BIOL2131 Ecology BIOL2151 Genetics BIOL2161 Genes: Replication & Expression BIOL2162 Molecular Gene Technology</p> <p>18 units from the following: BIOL3106 Biosecurity BIOL3107 Advances in Medical & Plant Biochemistry BIOL3109 Developmental Biology BIOL3002 Plants: Genes to Environment BIOL3125 Plants & Global Climate Change BIOL3177 Adv in Molecular Plant Science BIOL3203 Adv Microscopy in Biosc BIOL3303 Adv Field Studies in Functional Ecology BIOL3208/3209 Biology Research Project BIOL3210 Appreciating Parasites: from molecules to ecosystems</p> <p>Co-requisite majors: Biochemistry or Cell and Molecular Biology or Evolution, Ecology and Organismal Biology, or Biodiversity Conservation</p>	<p>24 units must include:</p> <p>12 units from the following: BIOL2171 Biochemistry & Nutrition CHEM2208 Chemical Biology 2</p> <p>12 units from the following: BIOL3107 Adv in Medical & Plant Biochem BIOL3108 Hallmarks of Cancer BIOL3188 ANU SynBio Challenge Team Project BIOL3208 or BIOL3209 Biology Research Project CHEM3201, CHEM3204, CHEM3207 or CHEM3060 Research Project</p> <p>Co-requisite majors: Cell and Molecular Biology or Chemistry or Human Biology</p>	<p>24 units must include:</p> <p>12 units from the following: BIOL1003 Biology 1: Evol, Ecol & Genetics BIOL1004 Biology 2: Mol & Cell Biology BIOL1008 Human Biology BIOL1009 Diversity of Life</p> <p>12 units from the following: 2000 or 3000 BIOL course</p>

HUMAN EVOLUTIONARY BIOLOGY MAJOR <i>(shared with Arts) - HUEB</i>	HUMAN EVOLUTIONARY BIOLOGY MINOR (shared with Arts) - HUEB	QUANTITATIVE BIOLOGY MAJOR <i>(shared with Maths) - QBIO</i>	ADVANCED QUANTITATIVE BIOLOGY & BIOINFORMATICS SPECIALISATION (Shared with Maths) - AQBI
<p>48 units must include:</p> <p>18 units from the following: BIAN1001 The Human Voyage: Introduction to Biological Anthropology BIAN3113 Human Evolution BIOL1003 Biology 1: Evol, Ecol & Genetics</p> <p>6 units from the following: BIOL3131 Behavioural Ecology BIOL3206 Evolution of Biodiversity</p> <p>12 units from the following: BIAN2015 Human Skeletal Analysis BIAN2119 Nutrition, Disease & the Env BIAN3124 Evolution & Human Behaviour BIAN3127 Primate Ecology & Behaviour</p> <p>12 units from the following: BIAN2133 Mating & Parenting: Evolutionary Ecology of Human Reproductive Strategies BIAN3125 Ancient Health & Disease BIOL2131 Ecology BIOL3204 Genetics of Human Disease 1 BIOL3205 Genetics of Human Disease 2 MEDN2222 Exquisite Corpse – Insight into the Human Body MEDN3186 Human Anatomy</p>	<p>24 units must include:</p> <p>18 units from the following: BIAN1001 The Human Voyage: Intro to Biological Anthropology BIAN3113 Human Evolution BIOL1003 Biology 1: Evol, Ecol & Genetics</p> <p>6 units from the following: BIAN2119 Nutrition, Disease & the Env BIAN3124 Evolution & Human Behaviour BIAN3125 Ancient Health & Disease BIAN3127 Primate Ecology & Behaviour BIOL3131 Behavioural Ecology BIOL3204 Genetics of Human Disease 1 BIOL3206 Evolution of Biodiversity MEDN3186 Human Anatomy</p>	<p>48 units of the following compulsory courses:</p> <p>6 units from the following: MATH1013 Mathematics and Applications 1 MATH1115 Advanced Mathematics and Application 1</p> <p>6 units from the following: STAT1003 Statistical Techniques STAT1008 Quantitative Research Methods</p> <p>36 units from the following: BIOL1003 Biology 1: Evolution, Ecology and Genetics BIOL2151 Genetics BIOL3157 Bioinformatics & It's Applications MATH2307 Bioinformatics and Biological Modelling MATH3353 Advanced Mathematical Bioinformatics MATH3511 Scientific Computing</p>	<p>24 units from the following list:</p> <p>BIOL2202 Experimental Design & Analysis BIOL3161 Genomics & Its Applications BIOL3206 Evolution of Biodiversity COMP3600 Algorithms COMP3630 Theory of Computation MATH2306 Applied Mathematics II MATH3029 Probability Theory with Applications MATH3501 Scientific and Industrial Modelling MATH3512 Matrix Computations MATH3514 Numerical Optimisation STAT2005 Introduction to Stochastic Processes STAT3004 Stochastic Modelling STAT3017 Big Data Statistics</p> <p><i>Co-requisite majors: Quantitative Biology Major</i></p>

Biodiversity Conservation Major
(Shared with FSES) – MAJ- BIOD

48 units must include:

A minimum of 12 units from the following:

Key concepts:

ENVS1003 Intro to Env & Social Res
 ENVS1004 Australia's Environment
 BIOL1003 Ecol, Evol & Genetics
 BIOL1009 Diversity of Life

A minimum of 18 units from the following:

Quantitative and spatial skills

ENVS2002 Env Measurement, Modelling and Monitoring
 ENVS2015 GIS & Spatial Analysis
 ENVS3014 Ecological Assessment & Mgmt
 ENVS3019 Adv Remote Sensing & GIS (not currently on offer)

Conservation sciences

ENVS2001 Biodiversity Science
 BIOL2114 Evolution
 BIOL2131 Ecology
 BIOL2151 Genetics
 BIOL3131 Behavioural Ecology
 BIOL3206 Evolution of Biodiversity
 BIOL3213 Australian Wildlife

A minimum of 12 units from the following:

Conservation management and policy

ENVS3039 Biodiversity Conservation
 ENVS3041 Managing Forested Landscapes
 BIOL3178 Recovering Threatened Species and Ecosystems
 ANIP3003 Australian National Internships
 SCNC3000 Science Internship

A minimum of 6 units from the following:

Field-based skills and experience

ENVS2018 Env Science Field School
 BIOL2203 Field Studies in Functional Ecol
 BIOL3132 Field Studies in Beh Ecol
 BIOL3303 Adv Field Studies in Funct Ecol
 EMSC3019 Coral Reef Field Studies
 BIOL3208 Biology Research Project