

NEW 2017 BIOLOGY MAJORS, MINORS AND SPECIALISATIONS

EVOLUTION ECOLOGY AND ORGANISMAL BIOLOGY MAJOR -new	CELL AND MOLECULAR BIOLOGY MAJOR - new	HUMAN BIOLOGY MAJOR - new	BIOCHEMISTRY MAJOR (shared with RSC – no change)
<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: BIOL3125 Plants & Global Climate Change BIOL3206 Evolution of Biodiversity</p> <p>6 units from the following: BIOL3191 Biology, Society & Ethics 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 Ecol & Evol Dev Biology BIOL3141 Infection and Immunity BIOL3142 Parasitology BIOL3144 Adv & Applied Immunology BIOL3161 Genomics & its Application BIOL3177 Adv in Molecular Plant Science 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) NEUR3101 Cellular Neuroscience</p> <p>6 units from the following: BIOL3191 Biology, Society & Ethics 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 BIOL3006 Human Physiology</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 BIOL2191 Ecology of Health and Disease BIOL2222 Exquisite Corpse</p> <p>6 units from the following: BIOL3108 Hallmarks of Cancer BIOL3141 Infection and Immunity BIOL3142 Parasitology BIOL3144 Advanced & Applied Immunology BIOL3186 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 Biology, Society & Ethics 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 I CHEM2211 Chemical Biology 1</p> <p>6 units from the following: BIOL2161 Genes: Replication & Expression BIOL2162 Molecular Gene Technology CHEM2208 Chemical Biology 2</p> <p>18 units from the following: BIOL3107 Adv in Medical & Plant Biochemistry 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 - new	NEUROSCIENCE & PHYSIOLOGY SPECIALISATION	BIOMEDICAL SCIENCE SPECIALISATION - new	GENETICS SPECIALISATION - new
<p>24 units from the following: BIOL3109 Ecol & Evol Dev Biology BIOL3114 Vertebrates Biology BIOL3113 Invertebrate Biology BIOL3116 Marine Conservation Ecology BIOL3131 Evol & Behavioural Ecology BIOL3132 Field Studies in Behavioural Ecol BIOL3142 Parasitology BIOL3193 Bacteria & Health: An Ecol & Evol Perspective BIOL3206 Evolution of Biodiversity BIOL3208 Biology Research Project BIOL3209 Biology Research Project (12u) BIOL3303 Adv Field Studies in Functional Ecology</p> <p>Co-requisite majors: Evolution, Ecology and Organismal Biology</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 BIOL3006 Human Physiology</p> <p>6 units from the following: BIOL3186 Human Anatomy BIOL3203 Histology & Adv Microscopy BIOL3208 Biology Research Project PSYC3016 Issues in Behavioural 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 BIOL2191 Ecology of Health and Disease BIOL2222 Exquisite Corpse: Insight into the Human Body</p> <p>18 units from the following: BIOL3006 Human Physiology BIOL3108 Hallmarks of Cancer BIOL3141 Infection & Immunity BIOL3142 Parasitology BIOL3144 Advanced & Applied Immunology BIOL3186 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) 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 Ecol & Evol Dev Biology BIOL3157 Bioinformatics & Functional Genomics BIOL3161 Genomics & Its Applications BIOL3193 Bacteria & Health: An Ecol & Evol Perspective 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</p>

MICROBIOLOGY & IMMUNOLOGY SPECIALISATION - new	PLANT SCIENCE SPECIALISATION	BIOCHEMISTRY SPECIALISATION (Shared with RSC – no change)	BIOLOGY MINOR (no change)
<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 BIOL3142 Parasitology BIOL3144 Adv & Applied Immunology BIOL3193 Bacteria & Health: An Ecological and Evolutionary Perspective BIOL3208/3209 Biology Research Project</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 Ecological & Evolutionary Developmental Biology BIOL3002 Plants: Genes to Environment BIOL3003 Plant Physiological Ecology BIOL3125 Plants & Global Climate Change BIOL3177 Adv in Molecular Plant Science BIOL3303 Adv Field Studies in Functional Ecology BIOL3208/3209 Biology Research Project</p> <p>Co-requisite majors: Cell and Molecular Biology or Evolution, Ecology and Organismal Biology</p>	<p>24 units must include:</p> <p>12 units from the following: BIOL2171 Biochemistry & Nutrition CHEM2208 Protein Engineering & Analysis</p> <p>12 units from the following: BIOL3107 Adv in Medical & Plant Biochem BIOL3208 or BIOL3209 Biology Research Project CHEM3201, CHEM3204, CHEM3207 or CHEM3060 Research Project (relevant to Biochem)</p> <p>Co-requisite majors: Cell and Molecular Biology or Chemistry</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 or NEUR course</p>

HUMAN EVOLUTIONARY BIOLOGY MAJOR <i>(new shared with Arts)</i>	QUANTITATIVE BIOLOGY MAJOR <i>(new shared with Maths)</i>	QUANTITATIVE BIOLOGY & BIOINFORMATICS SPECIALISATION (Shared with Maths – no change)
<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 Evol & Behavioural Ecology BIOL3186 Human Anatomy 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: BIAN2126 Primate Evolutionary Biology BIAN2131 Evolutionary Perspectives on Parenting & Childcare BIAN3021 Primate Conservation Biology BIAN3125 Ancient Health & Disease BIOL2131 Ecology BIOL2191 Ecology of Health and Disease BIOL2222 Exquisite Corpse – Insight into the Human Body BIOL3204 Genetics of Human Disease 1 BIOL3205 Genetics of Human Disease 2</p>	<p><i>This major is not yet approved and may not be offered in 2017</i></p> <p>48 units of the following compulsory courses: BIOL1003 Biology 1: Evolution, Ecology and Genetics MATH1013 or MATH1115 Mathematics and Applications 1 BIOL2151 Genetics MATH2307 Bioinformatics and Computational Biology STAT2001 Introductory Mathematical Statistics BIOL3157 Bioinformatics and Functional Genomics MATH3353 Advanced Mathematical Bioinformatics MATH3511 Scientific Computing</p>	<p>24 units must include:</p> <p>18 units from the following: MATH2307 Bioinformatics & Biology Modelling MATH3353 Advanced Topics in Bioinformatics BIOL3157 Bioinformatics and Functional Genomics</p> <p>6 units from the following: BIOL2202 Experimental Design & Analysis BIOL3161 Genomics & Its Applications MATH2306 Applied Mathematics II</p> <p><i>Co-requisite majors: Cell and Molecular Biology or Evolution, Ecology and Organismal Biology or Mathematics or Mathematical Modelling</i></p>

