

NAME \_\_\_\_\_ ID \_\_\_\_\_

**Franklin College Requirements**

Language 1, 2, 3 _____	Biological Science _____	US/Georgia Constitution Requirement _____	EMAIL _____
FA/PHY/REL 1 _____	Physical Science _____	US/Georgia History Requirement _____	
FA/PHY/REL 2 _____	Literature _____	Environmental Literacy Requirement _____	EXPECTED GRADUATION DATE _____
Social Science 1 _____	History _____	Cultural Diversity _____	
Social Science 2 _____	Multicultural _____	PEDB _____	Residency Requirement (45/60) _____

**MAJOR REQUIREMENTS:** A baccalaureate degree program must require at least 21 semester hours of upper division courses in the major field and at least 39 semester hours of upper division work overall. Students in the Franklin College must earn a grade of "C" (2.0) or better in major courses.

**Required Courses** (34-36 hours)  
A minimum grade of "C" (2.0) is required.

- BIOL 1108 (3) and BIOL 1108L (1) or BIOL 2108H (3) and BIOL 2108L (1)
- BCMB 3100 - (4 hrs) - Intro Biochemistry and Molecular Biology or BCMB 4020 - (3 hrs) - Biochemistry and Molecular Biology II
- GENE 3200 - (4 hrs) - Genetics
- CBIO 3400 - (4 hrs) - Cell Biology or CBIO 3600 - (4 hrs) - Developmental Biology or PBIO 3600 - (4 hrs) - Plant Cell & Developmental Biology
- ECOL 3500/L (4 hrs) - Ecology or ECOL 3505H/L (4 hrs) - Ecology Honors or GENE 3000 - (4 hrs) - Evolutionary Biology or PBIO 3650 (4 hrs) Plant Ecology

**Laboratory** A minimum grade of "C" (2.0) is required.

Laboratory \_\_\_\_\_

**Organismal Biology** A minimum grade of "C" (2.0) is required.

Organismal \_\_\_\_\_

**Choose one course from the following: (3-5 hours)**

- BCMB 4030/L - (4 hrs) - Lab Techniques in BCMB
- BIOL 3110L - (4 hrs) - Basic Skills in the Laboratory
- BIOL 3710L - (3 hrs) - Animal Behavior Laboratory
- BIOL 3720L - (3 hrs) - Field Animal Behavior
- BIOL 4960 or BIOL 4960H - (4 hrs) - Undergrad Research
- BIOL(CBIO) 5050/L - (3 hrs) - Electron Microscopy Lab
- BTEC(BCMB)PBIO 4000L (4 hrs) Methods Biotechnology
- CBIO(BIOL) 3410L - (4 hrs) - Lab in Cellular & Devel Biol
- ECOL(BIOL) 3510 - (3-4 hrs) - Ecology Laboratory
- ECOL 4070-4070L (4 hrs) Invertebrate Zoology
- ECOL(MARS) 4225/L (4 hrs) - Methods in Marine Ecology
- ECOL(MARS)4330/L (4 hrs) Tropical Marine Invertebrates
- GENE(BIOL) - 3210L - (3 hrs) - Experimental Genetics
- GENE(BIOL) 4210L - (4 hrs) - Molecular Genetics Lab
- GENE 4220L - (3 hrs) - Bioinformatics and Modeling Lab
- GENE 4230L - (3 hrs) - Evolutionary Biology Lab
- MARS 4500 - (3-5 hrs) - Field Study Oceanography & Marine Methods
- MIBO 3510L - (3 hrs) - Intro Microbiology Laboratory
- MIBO 3510H - (3 hrs) - Intro Microbiology Lab Honors
- MIBO 4600/L - (4 hrs) - Experimental Microbiology Laboratory
- MIBO 4710L - (3 hrs) - Medical Mycology Laboratory
- PBIO(BIOL) 3660L - (4 hrs) - Plant Biology Intensive Lab

**Choose one course from the following: (3-4 hours)**

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| <ul style="list-style-type: none"> <li>BIOL(FANR) 3460 or 3460H - Natural History South Pacific</li> <li>BIOL(WILD)3700 - (3 hrs) - Animal Behavior</li> <li>CBIO 3000/L - (4 hrs) - Comparative Vertebrate Anatomy</li> <li>CBIO (PBIO) 4600/L - (4 hrs) - Biology of Protists</li> <li>ECOL 3220 - (3 hrs) - Biology &amp; Conservation Marine Mammals</li> <li>ECOL 4050/L - (4 hrs) - Ichthyology</li> <li>ECOL 4070/L - (4 hrs) - Invertebrate Zoology</li> <li>ECOL(MARS)4330/L (4 hrs) Tropical Marine Invertebrates</li> <li>ENTO 3140/L - (4 hrs) - Insect Natural History</li> <li>ENTO 3645 - (3 hrs) - Medical Entomology</li> <li>ENTO 3650/L - (4 hrs) - Medical Entomology</li> <li>ENTO 4000/L - (4 hrs) - General Entomology</li> <li>ENTO 4450 - (3 hrs) - Insect Behavior</li> <li>MARS 3450 - (3 hrs) - Marine Biology</li> <li>MIBO 3500 - (3 hrs) - Introductory Microbiology</li> <li>MIBO 3510L - (3 hrs) - Intro Microbiology Laboratory</li> <li>MIBO 4110 - (3 hrs) - Plant-Microbe Interactions (Griffin)</li> <li>PATH(PBIO) 4200/L - (3 hrs) - Introductory Mycology</li> <li>PBIO 3270 - (3 hrs) - Flowers</li> <li>PBIO 4650/L - (4 hrs) - Plant Taxonomy</li> <li>PSYC 5750 - (3 hrs) - Principles of Primate Phylogeny</li> </ul> | <ul style="list-style-type: none"> <li>WILD(ECOL) 3580/L - (3/1=4 hrs) - Vertebrate Natural History</li> <li>WILD(ECOL) 4040/L - (4 hrs) - Herpetology</li> <li>WILD(BIOL) 4050/L - (4 hrs) - Mammalogy</li> <li>WILD 4060/L - (3 hrs) - Ornithology</li> </ul> |
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**Biology Major Electives (9 hours minimum)** - A minimum grade of "C" (2.0) is required.

For a total of nine hours, choose three or more courses from the list below. At least two of the courses must be 3 or more credit hours and from two different departments.  
PLEASE NOTE: Only ONE semester of research can be used in the Biology major, all other research will count as a general elective.

Major Elective (3+ hours) \_\_\_\_\_ Major Elective (3+ hours) \_\_\_\_\_ Major Elective (s) (remaining hours) \_\_\_\_\_

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| <ul style="list-style-type: none"> <li>ANTH(ECOL) 4210 - (4 hrs) - Zoo Archaeology</li> <li>ANTH(BIOL)(ECOL)(ENTO)(PBIO) 4260/L - (4 hrs) - Natural History Collections Management</li> <li>ANTH 4300 (4 hrs) - Ethnobotany</li> </ul> | <ul style="list-style-type: none"> <li>ANTH(BIOL)(ECOL)(EETH)(ENTO)(FANR)(GEOL)(PATH)(PBIO) 4261 - (3 hrs) - Museum of Natural History Internship</li> <li>ANTH(ECOL) 4290 - (3 hrs) - Environmental Archaeology</li> <li>ANTH 4790 - (3 hrs) - Human Adaptation</li> </ul> |
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| <ul style="list-style-type: none"> <li>BCMB 3100 - (4 hrs) - Intro Biochemistry and Molecular Biology</li> <li>BCMB(GENE) 3433 - (4 hrs) - Biology for Medicine</li> <li>BCMB 3600 - (3 hrs) - Genomics and Bioinformatics</li> <li>BCMB 3600H - (3 hrs) - Genomics and Bioinformatics (Honors)</li> <li>BCMB 4010 - (4 hrs) - Biochemistry and Molecular Biology I</li> <li>BCMB 4020 - (3 hrs) - Biochemistry and Molecular Biology II</li> </ul> | <ul style="list-style-type: none"> <li>BCMB 4030/L - (4 hrs) - Lab Techniques in Biochemistry and Molecular Biology</li> <li>BCMB (BINF) 4105/L - (2 hrs) - Cancer Bioinformatics</li> <li>BCMB(CHEM) 4110 - (3 hrs) - Physical Biochemistry</li> <li>BCMB 4120 - (4 hrs) - Human Biochemistry and Disease</li> <li>BCMB 4130 - (4 hrs) - Mechanisms of Human Disease</li> <li>BCMB 4130H - (4 hrs) - Mechanisms of Human Disease (Honors)</li> <li>BCMB(ENTO)(BTEC) 4200 - (3 hrs) - Biotechnology</li> </ul> |
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| <ul style="list-style-type: none"> <li>BIOL 3110L - (4 hrs) - Basic Skills in the Laboratory</li> <li>BIOL(FANR) 3460 or 3460H - Natural History of the South Pacific</li> <li>BIOL(WILD) 3700 - (3 hrs) - Animal Behavior</li> <li>BIOL 3710L - (3 hrs) - Animal Behavior Lab</li> <li>BIOL 3720L - (3 hrs) - Field Animal Behavior</li> </ul> | <ul style="list-style-type: none"> <li>BIOL 4910 - (1-4 hrs) - Advanced Topics in Biology</li> <li>BIOL 4960 - (4 hrs) - Undergraduate Research in Biology</li> <li>BIOL 4960H - (4 hrs) - Undergraduate Research in Biology (Honors)</li> <li>BIOL(CBIO)(VPAT) 5040 - (3 hrs) - Electron Microscopy</li> <li>BIOL(CBIO) 5050L - (3 hrs) - Electron Microscopy Laboratory</li> </ul> |
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BTEC(BCMB)(PBIO) 4000L - (4 hrs) - Methods in Biotechnology

<b>CBIO 3000/L</b> – (4 hrs) – Comparative Vertebrate Anatomy <b>CBIO 3010/L</b> (4 hrs) – Gross Anatomy <b>CBIO 3050</b> – (3 hrs) – Medical Histology <b>CBIO 3200</b> – (1-3 hrs) - Medical Anatomy <b>CBIO 3400</b> – (4 hrs) - Cell Biology <b>CBIO 3400E</b> – (4 hrs) - Cell Biology <b>CBIO 3410L</b> – (4 hrs) - Lab In Cellular and Developmental Biology <b>CBIO 3600</b> – (4 hrs) - Developmental Biology <b>CBIO 3710</b> – (3 hrs) - Principles in Physiology	<b>CBIO 3800</b> – (4 hrs) – Neurobiology <b>CBIO3800L</b> – (2 hrs) – Neurobiology Laboratory <b>CBIO(MIBO)(IDIS) 4100</b> – (3 hrs) - Immunology <b>CBIO 4200</b> – (3 hrs) - Biomedical Research in Health and Disease <b>CBIO 4200H</b> – (3 hrs) - Biomedical Research in Health and Disease (Honors) <b>CBIO 4340</b> - (3 hrs) - Biology of Aging <b>CBIO 4500</b> – (3 hrs) - Medical Parasitology <b>CBIO(PBIO) 4600/L</b> – (4 hrs) - Biology of Protists <b>CBIO 4730</b> – (3 hrs) - Endocrinology
<b>CHEM(BCMB) 4190</b> – (3 hrs) – Introduction of NMR Spectroscopy	
<b>CRSS (ECOL) 4563</b> – (3 hrs) – Genotoxicology of Radionuclides & contaminants <b>CRSS(HORT)(ECOL) 4590</b> – (3 hrs) - Soil Fertility and Plant Nutrition	<b>CRSS(MBIO) 4610/L</b> – (3 hrs) - Soil Microbiology
<b>ECOL 3000/L</b> – (4 hrs) - Introduction to Field Methods <b>ECOL 3100/L</b> – (4 hrs) -Tropical Field Ecology <b>ECOL 3220</b> – (4 hrs) - Biology and Conservation of Marine Mammals <b>ECOL 3500/L</b> – (4 hrs) - Ecology <b>ECOL 3505H/L</b> – (4 hrs) - Ecology (Honors) <b>ECOL 3510</b> – (3-4 hrs) - Ecology Laboratory <b>ECOL 3530-3530D</b> – (3 hrs) - Conservation Biology <b>ECOL 3600</b> (3 hrs) - Tropical Ecology: From Organisms to Ecosystems <b>ECOL 3880H</b> – (3 hrs) - Ecosystems of the World (Honors) <b>ECOL 4000</b> – (3 hrs) - Population and Community Ecology <b>ECOL 4010</b> – (3 hrs) - Ecosystem Ecology <b>ECOL 4050/L</b> – (4 hrs) – Ichthyology	<b>ECOL 4070/L</b> – (4 hrs) - Invertebrate Zoology <b>ECOL 4110</b> – (4 hrs) - Insect Diversity <b>ECOL 4130L</b> – (3 hrs) - Ecological Methodology <b>ECOL 4150/L</b> – (4 hrs) - Population Biology of Infectious Diseases <b>ECOL 4160</b> – (4 hrs) - Ecology of North America <b>ECOL(MARS) 4225/L</b> – (4 hrs) - Methods in Marine Ecology <b>ECOL 4240/L</b> – (4 hrs) - Physiological Ecology <b>ECOL(FISH)(WASR) 4310/L</b> – (4 hrs) - Limnology <b>ECOL(BIOL)(MARS) 4330/L</b> – (4 hrs) - Tropical Marine Invertebrates <b>ECOL 4500</b> – (3 hrs) - Evolutionary Ecology <b>ECOL(PBIO) 4520</b> – (3 hrs) - Plant-Animal Interactions <b>ECOL 4540</b> - (3 hrs) – Behavioral Ecology
<b>EHSC(FDST)(MBIO) 4310/L</b> – (4 hrs) - Environmental Microbiology	
<b>ENTO 3140/L</b> – (4 hrs) - Insect Natural History <b>ENTO 3645</b> – (3 hrs) - Medical Entomology Lecture <b>ENTO 3650/L</b> – (4 hrs) - Medical Entomology	<b>ENTO 4000/L</b> – (4 hrs) - General Entomology <b>ENTO 4450</b> – (3 hrs) – Insect Behavior
<b>FDST(MIBO) 4120/L</b> – (3 hrs) - Food Fermentations	
<b>FISH(ECOL)(MARS)(WILD) 4300</b> – (3 hrs) - Environmental Biology of Fishes <b>FISH(ECOL) 4360</b> – (4 hrs) - Fish Ecology	<b>FISH 4500</b> – (3 hrs) - Fish Physiology <b>FISH(ECOL)(MARS)(WILD) 4550/L</b> – (4 hrs) - Conservation Aquaculture
<b>GENE 3000</b> – (4 hrs) - Evolutionary Biology <b>GENE 3200</b> – (4 hrs) - Genetics <b>GENE 3210L</b> – (3 hrs) - Experimental Genetics <b>GENE 3220L</b> (3 hrs) – Genetics Problem Solving Lab <b>GENE 4020W</b> (3 hrs) - Evolution and Climate Change in the Ocean <b>GENE 4050</b> – (3 hrs) - Behavior Genetics <b>GENE 4070</b> – (3 hrs) - Evolutionary Medicine <b>GENE 4200</b> – (3 hrs) - Advanced Genetics	<b>GENE 4210L</b> – (4 hrs) - Molecular Genetics Lab <b>GENE 4220L</b> – (3 Hrs) - Bioinformatics and Modeling Laboratory <b>GENE 4230L</b> – (3 hrs) - Evolutionary Biology Laboratory <b>GENE 4300</b> – (3 hrs) - Evolutionary Genomics <b>GENE 4310</b> – (3 hrs) – Genetic Approaches to Developmental Neuroscience <b>GENE 4400</b> – (3 hrs) – Epigenetic Control and Genetic Instability <b>GENE 4500</b> – (3 hrs) - Human Genetics <b>GENE 4550</b> – (3 hrs) – Evolution and Development
<b>GEOG(PBIO) 4220</b> – (3 hrs) - Ecological Biogeography	<b>GEOG(PBIO) 4240</b> – (3 hrs) - Plant Geography
<b>HORT (CRSS) 4430</b> – (3 hrs) Plant Physiology	
<b>IDIS(CBIO) 3100</b> – (3 hrs) - People, Parasites, and Plagues	
<b>MARS 3450/L</b> – (4 hrs) - Marine Biology <b>MARS 3550</b> – (3 hrs) - Life in Fluids <b>MARS(PBIO) 4160/L</b> – (4 hrs) - Life and Death in the Salt Marsh	<b>MARS 4200</b> – (3 hrs) - Chemical and Biological Oceanography <b>MARS 4500</b> – (5 hrs) - Field Study in Oceanography and Marine Methods <b>MARS(MIBO) 4620/L</b> – (3 hrs) - Microbial Ecology <b>MARS 4810</b> – (3 hrs) – Global Biogeochemical Cycles
<b>MIBO 3500 or MIBO 3500E</b> – (3 hrs) - Introductory Microbiology <b>MIBO 3510L</b> – (3 hrs) - Introductory Microbiology Lab <b>MIBO 3510H</b> – (3 hrs) - Introductory Microbiology Lab (Honors) <b>MIBO 4090 or 4090E</b> – (3 hrs) - Prokaryotic Biology <b>MIBO 4110</b> – (3 hrs) – Plant Microbe Interactions (Griffin only) <b>MIBO(POPH) 4220 or 4220S</b> (3 hrs) - Pathogenic Bacteriology	<b>MIBO 4300 or 4300 E</b> – (3 hrs) - Microbial Diversity and Evolution <b>MIBO 4500 or MIBO 4500E</b> – (3 hrs) -Bacterial Symbioses <b>MIBO 4600L</b> – (4 hrs) - Experimental Microbiology Laboratory <b>MIBO 4680</b> – (4 hrs) - Industrial Microbiology and Biotechnology <b>MIBO 4700</b> – (3 hrs) - Medical Mycology <b>MIBO 4710L</b> – (3 hrs) - Medical Mycology Laboratory
<b>PATH (ANTH)(PBIO) 3010</b> – (3 hrs) - Fungi: Friends and Foes	
<b>PBIO 3270</b> – (3 hrs) - Flowers <b>PBIO 3600</b> – (4 hrs) - Plant Cell and Developmental Biology <b>PBIO 3650</b> (4 hrs) - Plant Ecology <b>PBIO 3660L</b> – (4 hrs) - Plant Biology Intensive Laboratory <b>PBIO 4500</b> (3 hrs) - Introduction to Gene Technology	<b>PATH(PBIO)</b> – 4200/L – (3 hrs) - Introductory Mycology <b>PBIO(GENE)(PATH) 4510</b> – (3 hrs) - Genome Evolution Across the Tree of Life <b>PBIO(BIOL)(BINF) 4550</b> – (3 hrs) - Bioinformatics Applications <b>PBIO 4640/L</b> – (3 hrs) - Botanical Illustration <b>PBIO 4650/L</b> – (4 hrs) - Plant Taxonomy <b>PBIO(ECOL) 4750</b> – (3 hrs) - Tropical Ecology and Conservation
<b>PMCY 3000</b> – (3 hrs) – Human Physiology	
<b>PMCY 4000</b> – (3 hrs) - The War on Cancer	
<b>POPH(MIBO)(IDIS) 4450/L</b> – (4 hrs) - Microbial Genetics and Genomics <b>POPH(MIBO)(IDIS) 4650</b> – (3 hrs) – Introduction to Virology	<b>POPH(MIBO) 4651</b> – (3 hrs) – RNA Virus Genomic Diversity
<b>POUL(BIOL) 4060</b> – (3 hrs) - Reproductive Endocrinology	
<b>PSYC 4120</b> – (3 hrs) - Sensation and Perception <b>PSYC 4130</b> – (3 hrs) - Physiological and Comparative Psychology <b>PSYC 4140</b> – (3 hrs) - Cognitive Neuroscience <b>PSYC 4150</b> – (3 hrs) – Biological Foundations of Health Psychology	<b>PSYC 5750</b> – (3 hrs) - Principles of Primate Phylogeny <b>PSYC 5770</b> – (3 hrs) - Organization of Primate Social Groups <b>PSYC 5850</b> – (3 hrs) - Psychopharmacology – Drugs and Behavior
<b>VPAT 4000</b> – (3 hrs) - On the Origins of Disease	
<b>VPHY 3100</b> – (3 hrs) - Elements of Physiology	
<b>WILD(ECOL) 3580/L</b> - (3/1=4 hrs) - Vertebrate Natural History <b>WILD(ECOL) 4040/L</b> – (4 hrs) – Herpetology <b>WILD(BIOL) 4050/L</b> – (4 hrs) - Mammalogy	<b>WILD 4060/L</b> – (3 hrs) – Ornithology <b>WILD (ECOL) 4575-4575L</b> – (6 hrs) – Conservation Medicine