

## Plant Biology Major Requirements – Check Sheet

Student name \_\_\_\_\_ ID \_\_\_\_\_

Franklin College Requirements		Regents/University of Georgia Requirements	
Language 1,2,3 _____	Biol Sci _____	US/Georgia Constitution Requirement _____	
FA/PHI/REL 1 _____	Physical Sci _____	US/Georgia History Requirement _____	
FA/PHI/REL 2 _____	Literature _____	Environmental Literacy Requirement _____	
Social Sci 1 _____	History _____	Cultural Diversity _____	
Social Sci 2 _____	Multiculture _____	PEDB _____	

**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 required courses.

### Required Core Courses (11 hours)

- GENE 3000-3000D** - Evolutionary Biology (4 hours; Prerequisite: BIOL 1108+L)
- GENE 3200-3200D** - Genetics (4 hours; Prerequisite: BIOL 1103 or 1107)
- HORT(CRSS) 4430/6430** - Plant Physiology (3 hours; Fall only; Prerequisite: CHEM 1211+L and BIOL 1103+L or BIOL 1104+L or BIOL 1107+L or BIOL 1108+L or P BIO 1210+L or P BIO 1220+L)

### Select an Area of Emphasis

#### Area of Emphasis I: Plant Ecology and Environment (14-16 hours)

- PBIO 3650-3650L** - Plant Ecology (4 hours; Fall only; Prerequisite: BIOL 1108+L or PBIO 1210+L or PBIO1220+L)
- PBIO 4650-4650L** - Plant Taxonomy (4 hours; Spring only; Prerequisite: BIOL 1104+L or BIOL 1108+L or PBIO 1220+L)

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

- BIOS 3000** - Intermediate Biostatistics for Public Health Sciences (3 hours; Prerequisite: STAT 2000)
- GEOG 4370/4370L** - Geographic Information Science (3 hours; Prerequisite: sophomore standing)
- HORT 4095/6095** - GPS/GIS Applications for Landscape Managers (3 hours; Prerequisite: PBIO1210 or BIOL 1107+L)
- PBIO 3660L** - Plant Biology Intensive Laboratory (4 hours; Not offered on a regular basis; Prerequisite: BIOL 1108+L or PBIO 1210+L or PBIO 1220+L)

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

- ANTH 4261** - Museum of Natural History Internship (3 hours)
- PBIO 4940** - Internship in Plant Biology (3-4 hours)
- PBIO 4960** - Independent Research in Plant Biology (1-4 hours) (4 hours)
- PBIO 4960H** - Independent Research in Plant Biology (Honors) (3 hours)

### Area of Emphasis II: Plant Biotechnology and Bioinformatics (15 hours)

**BCMB 3100** - Introductory Biochemistry and Molecular Biology (4 hours; Prerequisite: CHEM 2211+L and BIOL 1107)

**BTEC 4000L** - Methods in Biotechnology (4 hours; Spring only; Prerequisite: BCMB 3100)

**PBIO(BINF) 4550/6550** - Bioinformatics Applications (3 hours; Fall only; Prerequisite: GENE 3200)

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

**PBIO 4940** - Internship in Plant Biology (3-4 hours)

**PBIO 4960** - Independent Research in Plant Biology (1-4 hours) (4 hours)

**PBIO 4960H** - Independent Research in Plant Biology (Honors) (3 hours)

### Major Electives (9-12 hours)

In consultation with the department adviser, choose three of the following courses not used elsewhere in the major:

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

**ANTH 4261** - Museum of Natural History Internship (3 hours)

**ANTH(PBIO) 4300/6300-4300L/6300L** - Ethnobotany (4 hours)

**BCMB(BIOL)(CHEM) 3100** - Introductory Biochemistry and Molecular Biology (4 hours)

**BCMB 3600** - Genomics and Bioinformatics (3 hours)

**BIOS 3000** - Intermediate Biostatistics for Public Health Sciences (3 hours)

**BTEC(BCMB)(PBIO) 4000L** - Methods in Biotechnology (4 hours)

**CBIO 3400** - Cell Biology (4 hours)

**CBIO 4600** - Biology of Protists (3 hours) and **CBIO 4600L** - Biology of Protists Laboratory (1 hour)

**CRSS 3060** - Soils and Hydrology (3 hours) and **CRSS 3060L** - Soils and Hydrology Laboratory (1 hour)

**CRSS 4450/6450** - Crop Physiology (3 hours)

**CRSS 4590/4590L** - Soil Fertility and Plant Nutrition (3 hours) and Soil Fertility and Plant Nutrition Laboratory (1 hour)

**CRSS 4600/6600** - Soil Physics (3 hours) and **CRSS 4600L/6600L** - Soil Physics Laboratory (1 hour)

**CRSS(MIBO) 4610/6610-4610L/6610L** - Soil Microbiology (3 hours)

**ECOL 3500-3500L** - Ecology (4 hours) or **ECOL 3505H-3505L** - Ecology (Honors) (4 hours)

**ECOL 4000/6000** - Population and Community Ecology (3 hours)

**ECOL 4500/6500** - Evolutionary Ecology (4 hours)

**FANR 4350/6350** - Conservation Genetics (3 hours)

**GEOG(PBIO) 4220/6220** - Ecological Biogeography (3 hours)

**GEOG(PBIO) 4240/6240** - Plant Geography (3 hours)

**GEOG 4370/6370-4370L/6370L** - Geographic Information Science (3 hours)

**HORT(ANTH)(PBIO) 3440** - Herbs, Spices, and Medicinal Plants (3 hours)

**HORT 4095/6095** - GPS/GIS Applications for Landscape Managers (3 hours)

**HORT(CRSS) 4440/6440-4440L/6440L** - Environmental Physiology (4 hours)

**PATH(ANTH)(PBIO) 3010** - Fungi: Friends and Foes (3 hours)

**PATH 3530-3530L** - Introductory Plant Pathology (3 hours)

**PATH(PBIO) 4200/6200-4200L/6200L** - Mycology (4 hours)

**PBGG(CRSS)(HORT) 4140/6140** - Plant Breeding (3 hours)

**PBIO 3270** - Flowers (3 hours)

**PBIO 3400** - Plants and Society (3 hours)

**PBIO 3600** - Plant Cell and Developmental Biology (4 hours)

**PBIO 3650-3650L** - Plant Ecology (4 hours)

**PBIO 3660L** - Plant Biology Intensive Laboratory (4 hours)

**PBIO(CRSS) 4500/6500** - Introduction to Gene Technology (3 hours)

**PBIO(GENE)(PATH) 4510/6510** - Genome Evolution Across the Tree of Life (3 hours)

**PBIO(BINF) 4550/6550** - Bioinformatics Applications (3 hours)

**PBIO 4650/6650-4650L/6650L** - Plant Taxonomy (4 hours)

**PBIO(ECOL) 4750/6750** - Tropical Ecology and Conservation (3 hours)

**PBIO 4940** - Internship in Plant Biology (3-4 hours)

**PBIO 4960** - Independent Research in Plant Biology (1-4 hours) (4 hours)

**PBIO 4960H** - Independent Research in Plant Biology (Honors) (3 hours)

**PBIO 4970H** - Independent Research in Plant Biology (Honors) (3 hours)

**WASR(FORS) 4110/6110-4110L/6110L** - Forest Hydrology (4 hours)

**WASR 4400-4400L** - Introduction to Wetlands (3 hours)