### 1. State General Education Core
- Communication Foundation: ENC 110
- Mathematical Foundation: MAC1105C, MAC2311C, MGF1106, MGIF1107, STA2023
- Science Foundation: CHM 2045C, BSC 2010C

### 2. General Education Program (36 Hours)
Communications Foundations
- ENC 1101 __3____
- ENC 1102 __3____
- SPC 1603, SPC 1608, COM 1000 __3____

Cultural & Historic Foundations
- EUH 2000 or AMH 2010 or HUM 2210 or WOH2012 __3____
- EUH 2001 or HUM 2020 or HUM 2230 or WOH2022 __3____
- ARH 2050, ARH 2051, MUL 2010, PHI 2010, LIT 2110, LIT 2120, THE2000, FIL 1000 or REL2300 __3____

6. One additional course from Group 4 or 5 __3____
   (Can be the sequential to the above course)

Mathematical Foundations
- MAC 2311 __4____
- STA 2023 __3____

Social Foundations
- ANT2000, PSY2012, SYG2000 __3____
- AMH 2020 or ECO2013 or ECO 2023 or POS 2041 __3____

Science Foundations
- CHM 2045C __4____
- BSC 2010C __4____

### 3. University Requirements
- 9 hours of summer enrollment (total) in academic career. __3____
- 2.0 UCF GPA. __3____
- 48 hours 3xxx-4xxx level – 35 Biology requires = 13 hours left (to be satisfied with free electives or minor) __13 of 13

### 4. Major Requirements
- A minimum of 2.0 in all UCF courses taken in common program prerequisites, Biology core, and upper division restricted electives. __3____
- A minimum of a C (2.0) in all Biology offered Core Classes is required for graduation.
- Exit Exam- to be completed the term you graduate.
- Departmental Residency Requirement: of 22
  - 22 hours of regularly scheduled upper division courses must be taken in the UCF Biology Department.

### 5. Biology core courses (21 Hours)
- BSC 2010C Gen Biology __4____
- BSC 2111C Biology 2 __3____
- PCB 3023 Molec Cell Bio __3____
- PCB 3044 Ecology __3____
- PCB 3063 Genetics __3____
- PCB 4683 Evolutionary Biology __4____

### 5A. Cognate Sciences Core (31-33 hours)

#### Chemistry Placement Test: CHM2040, CHM2041, or CHM2045
- CHM 2045C or (CHM 2045c or CHM 2041c) __4/3____
- CHM 2046 __3____
- CHM 2046L __1____

- CHM 2210 CHM 3120 __3/3____
- CHM 2211 or CHM 2205 __3/5____
- CHM 2211L CHM 3120L __2/1____

- PHY 2053C or PHY 2054& L __4____
- PHY 2054C PHY 2049 & L __4____

#### Math Placement Test: MAC1105C, MAC1114, MAC 1410
- MAC 2311 __4____
- STA 2023 __3____

### 5B. Lab requirement- Two labs
At least one of these labs must come from section A - Core.

- A - Core:
  - PCB 3044L - Ecology lab
  - PCB 3063L - Genetics lab
  - PCB 4683L - Evolutionary Biology Lab

- B - Non-Core: designed with ↑

### 6. 22 hours of restricted electives are required, with following stipulations:
- Courses must be selected from those listed below.
- Include one course exclusively on animals (marked a) __3____, and one exclusively on plants (marked p) __3____.
- At least 10 of the 22 hours must be courses offered by the Department of Biology (designated with an *). __10 of 10
- Independent Study/Directed Research: May include a maximum of 4hrs towards restricted electives. (Completed with Biology Faculty)
- 5000 level courses may be taken by seniors with prior permission of course instructor. You will be charged graduate level tuition.

#### Required Electives (choose two of the following four courses) (6-8hr)
- BSC 3052* Conservation Biol __3____
- BSC 4921* Biogeography __4____
- PCB 4684* Population Genetics __3____
- a ZOO 4310C*+ Vert Evo and Eco __4____

#### Restricted Electives (choose one from following) (7-9 hrs)

| p. | BOT 4303C*+ Plant Kingdom __5____ |
| p. | BSC 4330* Invesion Biology __3____ |
| p. | BSC 4351* Conservation Biol __3____ |
| p. | BSC 4861L* Urban Ecology __3____ |
| p. | PCB 3343L* Proc Field Ecology __3____ |
| p. | PCB 3544L* Ecological Lab __1____ |
| p. | PCB 3555L* Tropical Marine Bio __2____ |
| p. | PCB 3542* Aquatic Ecology __3____ |
| p. | PCB 3703C* Human Physiology __4____ |
| p. | PCB 4xxx*† Plant Microtechniques __2____ |
| p. | PCB 4402* Disease Eco & Immunology __3____ |
| p. | PCB 4514* Genetics __3____ |
| p. | PCB 4522* Molec Bio I __3____ |
| p. | PCB 4524* Molec Bio II __3____ |
| p. | PCB 4683L* Evol. Biology Lab __1____ |
| p. | PCB 4678* Evolution in Medicine __3____ |
| p. | PCB 4684* Population Genetics __3____ |
| p. | PCB 4723* Animal Physiology __4____ |
| p. | PCB 4932C* Genomics Lab __4____ |
| p. | PCB 5316C* Marine Conservation __4____ |
| p. | PCB 5326C* Ecosystems of Fi __3____ |
| p. | PCB 5435C* Marine Ecology of Fi __3____ |
| p. | PCB 5458* Models in Ecology __3____ |
| p. | a ZOO 3713C* Comp Vert Anat __5____ |
| p. | a ZOO 3733C Human Anatomy __5____ |
| p. | a ZOO 4205C* Bio and Eco Meta Inv __4____ |
| p. | a ZOO 4310C* Vert Evo and Eco __3____ |
| p. | a ZOO 4480* Mammalogy __4____ |
| p. | a ZOO 4480L* Mammalogy Lab __1____ |
| p. | a ZOO 4513* Animal Behavior __3____ |

#### Additional Biology Electives (5-9 hours)
- a. ANT 3550 Primatology __3____
- BSC 2010C Conservation Biol __3____
- BSC 4821* Biogeography __4____
- BSC 4850* MEDICAL BOTANY __3____
- BSC 4312C* Adv Marine Biol __3____
- BSC 4330* Invasion Biology __3____
- BSC 4xxx* Bio Res. Meth & Exp Design __3____
- BSC 4861L* Urban Ecology __3____
- BSC 5258* Trop Bio Research __3____
- a. ENV 3xxx* Honey Bee Biol Beekeeping __3____
- a. ENV 4004C* General Entomology __4____
- MCB 3020C Gen Microbiology __5____
- OCE 3008* Oceanography __3____
- a. PAZ 4234* Zool & Aquarium Mgt __3____
- PCB 3044L* Ecology Lab __1____
- PCB 3063L* Genetics Lab __1____
- PCB 3233* Immunology __3____
- PCB 3343L* Princ Field Ecology __3____
- PCB 3355* Tropical Ecology & Cons. __3____
- PCB 3355L* Tropical Marine Bio __2____
- PCB 3442* Aquatic Ecology __3____
- PCB 3703C* Human Physiology __4____
- PCB 4xxx*† Plant Microtechniques __2____
- PCB 4353* Fl Natural History __3____
- PCB 4402* Disease Eco & Immunology __3____
- PCB 4514* Genetics __3____
- PCB 3522* Molec Bio I __3____
- PCB 4524* Molec Bio II __3____
- PCB 4683L* Evol. Biology Lab __1____
- PCB 4678* Evolution in Medicine __3____
- PCB 4684* Population Genetics __3____
- PCB 4723* Animal Physiology __4____
- PCB 4932C* Genomics Lab __4____
- PCB 5316C* Marine Conservation __4____
- PCB 5326C* Ecosystems of Fi __5____
- PCB 5435C* Marine Ecology of Fi __3____
- PCB 5458* Models in Ecology __3____
- a ZOO 3713C* Comp Vert Anat __5____
- a ZOO 3733C Human Anatomy __5____
- a ZOO 4205C* Bio and Eco Meta Inv __4____
- a ZOO 4310C* Vert Evo and Eco __3____
- a ZOO 4480* Mammalogy __4____
- a ZOO 4480L* Mammalogy Lab __1____
- a ZOO 4513* Animal Behavior __3____
- a ZOO 4462C* Herpetology __4____
- a ZOO 4603C* Embryology/Develop __5____
- a ZOO 4753C* Comp Vert Histology __5____
- a ZOO 3xxx* Ichthyology __3____
- a ZOO 3xxx* Ornithology __3____