



## Biology Roadmap 2024-2025



*All prerequisite courses require a "C" (2.0) or better*

*MPT = Appropriate Score on Math Placement Test      CPE = Appropriate Score on Chem Placement Exam.*

### Common Program Prerequisites - "C" (2.0) or better in each course

		Credits	Status
<b>BSC2010C</b>	<b>Biology I (GEP)</b> PR: High school biology	4	<input type="text"/>
<b>BSC2011C</b>	<b>Biology II</b> PR: BSC 2010C	4	<input type="text"/>
<b>CHM2045C</b>	<b>Chemistry Fundamentals I (GEP)</b> PR: CHM 1025 or CPE, and MAC 1105 or MPT	4	<input type="text"/>
<b>CHM2046</b>	<b>Chemistry Fundamentals II</b> PR: CHM 2045C, and MAC 1105C or MPT	3	<input type="text"/>
<b>CHM2046L</b>	<b>Chemistry Fundamentals Lab</b> PR or CR: CHM2046	1	<input type="text"/>
<b>MAC2311C</b>	<b>Calculus with Analytic Geometry I</b> PR: MAC1140C & MAC1114C, or MPT	4	<input type="radio"/>
---OR---			
<b>MAC2233</b>	<b>Concepts of Calculus</b> PR: MAC 1140C or MPT	3	<input type="radio"/>
<b>STA2023</b>	<b>Statistical Methods I (GEP)</b> PR: MGF 1106 or any MAC course	3	<input type="text"/>
<b>PHY2053</b>	<b>College Physics I</b> PR: MAC 1114C or higher, or MPT	3	<input type="text"/>
<b>PHY2053L</b>	<b>College Physics I Lab</b> PR or CR: PHY 2053  <i>Also satisfied by PHY 2053C (4cr, Lab included)</i> <i>Also satisfied by PHY 2048C, or PHY 2048 &amp; Lab (PR: MAC2311C)</i>	1	<input type="text"/>
<b>PHY2054</b>	<b>College Physics II</b> PR: PHY 2053	3	<input type="text"/>
<b>PHY2054L</b>	<b>College Physics II Lab</b> PR or CR: PHY 2054  <i>Also satisfied by PHY 2054C (4cr, Lab included)</i> <i>Also satisfied by PHY 2049C, or PHY 2049 &amp; Lab (PR: PHY 2048 &amp; MAC2312)</i>	1	<input type="text"/>

		Credits	Status
<b>CHM2210</b>	<b>Organic Chemistry I</b> PR: CHM 2046	3	<input type="text"/>
<b>CHM2211</b>	<b>Organic Chemistry II</b> PR: CHM 2210	3	<input type="text"/>
<b>CHM2211L</b>	<b>Organic Laboratory Techniques I</b> PR: CHM 2046L and CHM 2210  <i>Also satisfied by CHM2205 <input type="checkbox"/> followed by CHM3120 <input type="checkbox"/> and CHM3120L <input type="checkbox"/></i>	2	<input type="text"/>

### Biology Core Requirements: "C" (2.0) or better in each course

		Credits	Status
<b>PCB3044*</b>	<b>Principles of Ecology</b> PR: CHM2045, BSC 2010C & BSC2011C	3	<input type="text"/>
<b>PCB3063*</b>	<b>Genetics</b> PR: BSC2011C or CHM2046	3	<input type="text"/>
<b>PCB3023*</b>	<b>Molecular Cell Biology</b> PR: CHM2210 or CHM2205 or CHM3120, and BSC2010C, and PCB3063	3	<input type="text"/>
<b>PCB4683*</b>	<b>Evolutionary Biology</b> PR: JR Standing & PCB 3063	4	<input type="text"/>

*Were all four of the above courses taken at UCF?*

YES  nothing further needed

NO  check overall UL residency: \_\_\_\_ of 22

### Upper Level Lab Requirements

	<b>Lab A</b>	PCB3044L Principles of Ecology Lab <input type="radio"/>		
		PCB3063L Genetics Laboratory <input type="radio"/>	1	<input type="text"/>
<i>Choose one</i>		PCB4683L Evolutionary Biology Lab <input type="radio"/>		
	<b>Lab B</b>	<i>A second Lab A course, or other lab elective (see second page)</i>		

### Upper Level Electives

**22 Credit Hours of Electives - See Second Page**

### Other Requirements

UCF GPA \_\_\_\_\_ Major GPA \_\_\_\_\_  
2.0 minimum                      2.0 minimum

**Exit Exam\***

\* The Biology Exit Exam covers the following core courses: Biology I, Biology II, Genetics, Ecology, Molecular Cell Biology, and Evolutionary Biology.

# Plant Science Track

NAME \_\_\_\_\_

UCF ID \_\_\_\_\_

DATE \_\_\_\_\_

Biology Major B.S. – Plant Science Track						Upper Division Restricted Electives (22 hrs)							
KEY: R = Elective Residency (Taught by UCF Biology Dept) L = Lab Option A = Animal/Zoology Option P = Plant/Botany Option													
Course Detail	R	L	A	P	Cr	Status	Course Detail	R	L	A	P	Cr	Status
<b>REQUIRED - MUST COMPLETE</b>						<b>"C" or better required</b>							
BOT 3015				P	3		PCB 3355L	R				2	
<b>RESTRICTED - COMPLETE AT LEAST 4</b>							PCB 3442	R				3	
BOT 3802	R			P	3		PCB 3522					3	
BOT 4223C	R	L		P	4		PCB 3703C					4	
BOT 4303C	R	L		P	4		PCB 4301C	R	L			4	
BOT 4503C	R	L		P	4		PCB 4353	R				3	
BOT 4713C	R	L		P	5		PCB 4353L	R	L			1	
BOT 4922	R						PCB 4402	R				3	
BOT 4941	R						PCB 4408	R				3	
BOT 4850	R			P	3		PCB 4413	R				3	
BSC 4927	R				3		PCB 4514	R				3	
<b>COMPLETE REMAINING REQUIREMENTS</b>						<b>Additional From Above, or:</b>							
ANT 3550C			A		3		PCB 4524					3	
BCH 4053					3		PCB 4575	R				3	
BCH 4054					3		PCB 4683L	R	L*			1	
BOT 3018C	R	L		P	4		PCB 4723	R		A		4	
BSC 3052	R				3		PCB 4932	R				3	
BSC 3312	R				3		ZOO 3001	R		A		3	
BSC 3403C					4		ZOO 3454	R		A		3	
BSC 3453C	R				3		ZOO 3713	R		A		4	
BSC 4310	R				3		ZOO 3713L	R	L			1	
BSC 4312C	R	L			4		ZOO 3733C					4	
BSC 4330	R				3		ZOO 4205C	R	L	A		4	
BSC 4445C	R	L			4		ZOO 4272	R		A		3	
BSC 4456C	R				3		ZOO 4310C	R	L	A		4	
BSC 4473C	R				4		ZOO 4405C	R	L	A		3	
BSC 4821	R				4		ZOO 4462C	R	L	A		4	
ENY 4004C	R	L	A		4		ZOO 4480	R		A		4	
ENY 4455C	R	L	A		4		ZOO 4480L	R	L			1	
MCB 3020C					5		ZOO 4513	R		A		3	
OCE 3008	R				3		ZOO 4603C	R	L	A		5	
PAZ 4234	R				3		ZOO 4756C	R	L	A		4	
PCB 3044L	R	L*			1		ZOO 4910L	R	L	A		3	
PCB 3063L	R	L*			1		<p><b>Only a few elective courses are offered each semester. We suggest performing class search using Department &gt; Biology (to find "R" elective courses)</b></p> <p>Current &amp; IP Total: _____ / 22      Needed: <u>22</u></p>						
PCB 3233					3								
PCB 3354	R				3								
<b>Requirements Met:</b>	Animal/Zoology Course (A)	<input type="checkbox"/>	Plant / Botany Course (P)	<input type="checkbox"/>	Lab A (L*)	<input type="checkbox"/>	10+ Residence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
					Lab B (L)	<input type="checkbox"/>	Elective Hours (R)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup> You may only earn a MAXIMUM OF 4 CREDIT HOURS from internship, research and independent study (collectively) towards your Biology electives.

## NOTES

**General Education Program**

Your GEPs are \_\_\_\_\_ (complete or not complete).

**Most students have room two "free electives".** Also called "unrestricted electives", these are upper level courses (3000+) of your choice that can be taken from outside the Biology department. You may wish to choose courses you find fun or interesting to incorporate during semesters when you are taking rigorous courses. If you'd like a list of ideas for free electives, ask your advisor.

**About the Biology Exit Exam:** <https://academicsuccess.ucf.edu/utc/biology/>

## PROJECTED SCHEDULE

Semester

Semester

Semester

Semester

Semester

Semester