

## DEPARTMENT OF CELL BIOLOGY, MICROBIOLOGY, AND MOLECULAR BIOLOGY

BioAdvise | SCA 203 | BioAdvise@usf.edu | Ph: (813)974-3250 | Fax: (813)974-2876 | www.biology.usf.edu/bioadvise/

- Must receive a C- or better or meet major requirements
- Must maintain a 2.0 GPA in all Major's coursework: this is the Applied Attempts GPA in the Major block of DegreeWorks
- Must have fewer than 3 D and/or F grades in applicable science coursework

MAJOR REQUIREMENTS (25 CREDIT HOURS)			
	BSC 2010/L: Cellular Processes with lab BSC 2011/L: Biodiversity with lab PCB 3063/L: Genetics and lab PCB 3023/L: Cell Biology and lab MCB 3410: Cell Metabolism PCB 4024: Molecular Biology of the Cell Choose one of the Following  PCB 4026: Molecular Biology of the Gene PCB 4109: Cancer Biology	No prerequisites; must take lecture and lab together No prerequisites; must take lecture and lab together Prerequisites: BSC 2010/L and CHM 2046 Prerequisites: BSC 2010/L and CHM 2046 Prerequisites: BSC 2010/L and CHM 2046 Prerequisites: PCB 3063, PCB 3023 and MCB 3410 Prerequisites: PCB 3063, PCB 3023 and MCB 3410 Prerequisites: PCB 3063, PCB 3023 and MCB 3410	
MAJOR ELECTIVES OPTIONS (15 CREDIT HOURS)			
	BCH 3053: Biochemistry BSC 4434: Bioinformatics BSC 4905: Independent Study (max 1 credit) BSC 4910: Undergraduate Research (max 4 credits) BSC 4933: Readings in Cell and Molecular Biology BSC 4935: Seminar in Cell and Molecular Biology MCB 3020/L: Microbiology with lab MCB 4503: Virology MCB 4933: Cellular Microbiology SIS NOT A COMPLETE LIST: Please refer to the pt advanced biology courses are not offered every set	  - 	·
UP	PORTING SCIENCE (32-34 CREDIT HOURS)		
	CHM 2045/L: General Chemistry I and lab CHM 2046/L: General Chemistry II and lab CHM 2210/L: Organic Chemistry I and lab CHM 2211/L: Organic Chemistry II and lab One Physics Sequence: O PHY 2053/L AND PHY 2054/L (non-calculus bas O PHY 2048/L AND PHY 2049/L (calculus based, r	Prerequisites: C or better in MAC 1105 or test equivalent Prerequisites: C or better in CHM 2045/L Prerequisites: C or better in CHM 2046/L Prerequisites: C or better in CHM 2210/L  sed, recommended for life science/pre-health majors) must take MAC 2311 and 2312 math sequence)	

☐ Calculus I: MAC 2241 OR MAC 2311 OR MAC 2281 Prerequisites: C or better in MAC 1147 or test equivalent

☐ Calculus II OR Statistics: MAC 2242 OR MAC 2312 OR STA 2023

## ADDITIONAL DEGREE REQUIREMENTS ☐ ENC 1101 ☐ ENC 1102 Core Social Science: AMH 2020, ANT 2000, ECO 2013, POS 2041, PSY 2012 OR SYG 2000 ☐ Core Humanities: ARH 2000, HUM 1020, LIT 2000, PHI 2010 OR THE 2000 ☐ Enhanced General Education – Creative Thinking ☐ Enhanced General Education – Human and Cultural Diversity ☐ Enhanced General Education – Information and Data Literacy ☐ Enhanced General Education – Ethical Reasoning and Civic Engagement ☐ Enhanced General Education – High Impact Practice OTHER UNIVERSITY REQUIREMENTS ☐ 120 Hours – A Bachelor's Degree requires a minimum of 120 credit hours ☐ Upper-level requirement – All students are required to take at least 42 credits at the 3000+ level. In your Cell and Molecular Biology major courses, you will complete 32 upper-level credits. Based on the number of credits you have already taken, you have upper level credits remaining, outside the major. Summer Rule – All students who enter USF with fewer than 60 credits are required to take at least 9 credits of coursework in the summer at a State University System (SUS) 4-year University. You have \_\_\_\_\_ summer credits remaining to complete. ☐ GPA Requirement – Students must earn an overall 2.0 GPA and USF 2.0 GPA ☐ USF Residency – Student must complete 30 of the last 60 credits in USF Tampa coursework

The final responsibility for meeting all graduation requirements stated in the catalog rests with the student. See the USF catalog for a complete list of graduation requirements. www.ugs.usf.edu/catalog.htm

## **GET INVOLVED!**

- ✓ Undergraduate Research- Work one-on-one with faculty beginning your junior year with the possibility of being published!
- ✓ Lab experience through a wide array of coursework

☐ FLENT (Foreign Language Entrance Requirement)

- ✓ USF Cell, Molecular and Microbiology Club
- ✓ Pre-Health Profession Clubs
- ✓ **USF Health Byrd Alzheimer's Institute** allows students to volunteer in the research labs

☐ Biology Residency – Student must complete 20 of the last 30 biology credits at USF Tampa

☐ State Communication – ENC 1101, ENC 1102, and two 'double-dip' courses

- ✓ Moffitt Cancer Center offers internships in various research areas
- ✓ Centers for Disease Control and Prevention (CDC) offers paid summer internships in Atlanta

Please refer to the BioAdvise involvement website for links to the above opportunities:

http://biology.usf.edu/bioadvise/involvement/clubs.aspx



"BioAdvise at USF" on Facebook for new opportunities within the Biology Field!