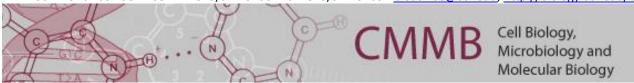


Microbiology BS - 2015/16 Catalog

USF BioAdvise - SCA 203 Ph: 813/974-3250 Fax: 813/974-3263 - bioadvise@usf.edu, http://biology.usf.edu/bioadvise



Microbiology Major Requirements: 42 hours total

- Students must receive a C- or better to meet major requirements.
- Cascading Prerequisites are strictly enforced.
- □ Students must maintain a 2.0 GPA in all majors' coursework, which is calculated using only USF Biology courses.
- □ Students must have **less than 3** D and/or F grades in Biology and supporting science requirement lectures.
- ☐ Students must complete a minimum of 20 hours in Biology at USF Tampa.

Microbiology Core Curriculum: 22 hours				Prerequisite	
	BSC 2010, 2010L	Cellular Processes & Lab	4hrs		
	BSC 2011, 2011L	Biodiversity & Lab	4hrs		
	MCB 3020/L	General Microbiology & Lab	4hrs	BSC 2010/L, CHM 2210	
	MCB 3410	Cell Metabolism	3hrs	BSC 2010/L, CHM 2046	
	PCB 3023, 3023L	Cell Biology w/Lab	4hrs	BSC 2010/L, CHM 2046	
	PCB 3063	Genetics	3hrs	BSC 2010/L, CHM 2046	
Advanced Microbiology Curriculum: 20 hours					
Most advanced microbiology courses are not offered every semester. There are no set offerings for summer semesters.					
	MCB 4115/L	Determinative Bacteriology & Lab (Fall only)	5hrs	MCB 3020/L	
	MCB 4320	Molecular Microbiology (FA & SP)	3hrs	MCB 3020/L, PCB 3023, PCB 3063	
□ Choose 12 hours of the following Microbiology Major courses					
	o BCH 3053	Biochemistry	3hrs	BSC 2010/L, CHM 2210	
	o BSC 4905	Independent Study	1hr	Contract with faculty member	
	o BSC 4933*	Special Topic approved for Micro	3hrs	CI	
	o MCB 4933	Special Topics approved for Micro	3hrs	CI	
	o BSC 5931	Special Topic approved for Micro	3hrs	CI	
	o MCB 4404	Microbial Physiology + Genetics (SP only)	3hrs	MCB 3020/L	
	o MCB 4404L	Microbial Physiology + Genetics Lab	1hr	MCB 4404 (Co-Req, can take concurrently)	
	o MCB 4503	Virology (Fall Only)	3hrs	MCB 3020/L	
	o MCB 4905	Undergraduate Research	1-4 hrs	3.0 GPA, contract with faculty, max 2 credits/semester	
	o MCB 4934	Seminar in Microbiology	1hr	MCB 3020/L, CI	
	o MCB 5206	Public Health & Path Micro (Summer only)	3hrs	MCB 3020/L, CI	
	o MCB 5655	Applied & Env Micro (also BSC 4933)	3hrs	MCB 3020/L, CI	
	o PCB 4671	Molecular Evolution (every other Spring)	3hrs	PCB 3063 or CI	
	o PCB 4234	Immunology (Fall only)	3hrs	PCB 3023, PCB 3063 or MCB 3020/L	
	o ZOO 4753	Human Histology & Histopathology	3hrs	PCB 3063, PCB 3023, CHM 2210	
* 1.1	at all DCC 4022 cou	reas sount towards this major's alastivas hours.	م م ط+نید باه م م	A duic or	

^{*}Not all BSC 4933 courses count towards this major's electives hours. Check with an Advisor.

Check BioAdvise permits page for additional Microbiology electives.

Calc II or Statistics: MAC 2242, MAC 2312, MAC 2282, or STA 2023

Supporting Sciences: 32-34 hours total Prerequisite grade Students must receive a C- or better to meet requirements for degree CHM 2045& CHM 2045L General Chemistry I and Lab 4 hrs. C (2.0) grade min CHM 2046 & CHM 2046L General Chemistry II and Lab 4 hrs. C (2.0) grade min CHM 2210 & CHM 2210L Organic Chemistry I and Lab 5 hrs. C (2.0) grade min CHM 2211& CHM 2211L Organic Chemistry II and Lab 5 hrs. C (2.0) grade min One of the General Physics sequences 8 hrs.: C- or better o PHY 2053/L & 2054/L (non-calculus based, recommended for life science/pre-health majors) o PHY 2048/L & 2049/L (calculus based – must take MAC 2311 and 2312 math sequence) Calc I: MAC 2241 Life Sciences, MAC 2311, or MAC 2281 Engineering 3-4 hrs. C (2.0) grade min to take Calc II

3-4hrs.

C- or better

Additional USF Degree Requirements

USF BioAdvise - SCA 203 - bioadvise@usf.edu - PH: (813) 974-3250 - FAX: (813) 974-2876 http://biology.usf.edu/bioadvise

Genera	al Education Common Core:				
	ENC 1101				
	ENC 1102				
	Choose one of the following Social Sciences: AMH 2020, ANT 2000, ECO 2013, POS 2041, PSY 2012, OR SYG 2000				
	Choose one of the following Humanities: ARH 2000, HUM 1020, LIT 2000, PHI 2010, OR THE 2000				
Founda	ations of Knowledge and Learning Lower-Level Requirements:				
	Social/Behavioral Science				
	Human/Cultural Diversity in a Global Context				
	Fine Arts				
	Humanities				
	Human Historical Context and Process dimension (two courses from above must also meet HHCP)				
	ENC 1101				
Foundations of Knowledge and Learning Upper-Level Requirements:					
	Capstone				
	Writing Intensive				
Other University Requirements:					
	120 Hours – A Bachelor's Degree requires a minimum of 120 credit hours				
	48 Hour Rule – All students are required to take at least 48 credits at the 3000+ level. Between your Microbiology				
	major courses and the exit courses you will complete 40 upper level credits. Based on the number of credits you				
	have already taken, you have upper level credits remaining, outside of the major and exit courses.				
	Summer Rule – All students who enter USF with fewer than 60 credits are required to take at least 9 credits of				
	course work in the summer at a State University System (SUS) 4-year University.				
	GPA Requirement – Students must earn and Overall 2.0 GPA and USF 2.0 GPA				
	USF Residency – Students must complete 30 of the last 60 credits in USF Tampa coursework				
	FLENT (Foreign Language Entrance Requirement)				
	Gordon Rule Communication – ENC 1101 & ENC 1102 , Writing Intensive and one 'double-dip' course				
	Like "BioAdvise at USF" on Eacebook for new opportunities within the Riology Field!				

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. http://www.ugs.usf.edu/catalogs.htm

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