

BIOLOGICAL SCIENCES (Licensure) (BS)

Degree Plan (BSClbs) (BSClGCBS)

SUGGESTED COURSE SEQUENCE GUIDELINES

- These are suggested course sequence guidelines. Students must consult the USM Undergraduate Bulletin and their academic advisor.
- First and Second Year courses are listed as Junior/Community Colleges courses with equivalent USM courses in brackets.
- During the last semester of the Sophomore year, students should develop a more detailed plan for the Junior and Senior years because many upper level BSC courses are offered in specific semesters (Fall or Spring only) and/or on a rotating two year cycle.
- Some courses may require additional prerequisites.

COMMUNITY COLLEGE / JUNIOR COLLEGE (62 hours)			
FRESHMAN		SOPHOMORE	
1st Semester		1st Semester	
BIO 1134 - General Biology I [BSC 110/L]	4	BIO 2424 - Zoology II [BSC 201/L]	4
CHE 1214 - General Chemistry I [CHE 106/L]	4	CHE 2425 - Organic Chemistry I [CHE 255/L]	4
MAT 1613* - Calculus I [MAT 167]	3	ENG 2423 - World Literature [ENG 203]	3
ENG 1113 - English Composition I [ENG 101]	3	SPT 1113 - Oral Communication [SCM 111]	3
HIS 1163 - World Civilization I [HIS 101] <i>or</i> HIS 2213 - American History I [HIS 201]	3	Select one <i>Social Science</i> course: SOC 2231 [ANT 101] <i>or</i> GEO 1113 [GHY 101] <i>or</i> SOC 2113 [SOC 101]	3
2nd Semester		2nd Semester	
BIO 1144 - General Biology II [BSC 111/L]	4	BIO 1314 - Botany [BSC 226/L]	4
CHE 1224 - General Chemistry II [CHE 107/L]	4	CHE 2435 - Organic Chemistry II [CHE 256/L]	4
ENG 1123 - English Composition II [ENG 102]	3	Select one <i>Aesthetic Values</i> course: ART 1113 [ART 130] <i>or</i> MUS 1113 [MUS 365] <i>or</i> SPT 2223 [THE 100]	3
HIS 1173 - World Civilization II [HIS 102] <i>or</i> HIS 2223 - American History II [HIS 202]	3	PSY 1513 - General Psychology [PSY 110]	3
TOTAL	31	TOTAL	31

*Calculus is required for this major. Students may enroll in Calculus if the ACT mathematics subtest score is ≥ 26 ; otherwise, they must take prerequisite courses, typically College Algebra and/or Trigonometry. Entering freshmen with an ACT mathematics subtest score of ≤ 16 must take Intermediate Algebra during the first semester. Students with an ACT mathematics subtest score of 17-19 are **strongly encouraged** to take Intermediate Algebra before taking College Algebra. Students may take Trigonometry if the ACT mathematics subtest score is ≥ 24 or if they have a grade of C or better in College Algebra.
Licensure students must pass the Basic Technology Literacy Exam (BTLE).

UNIVERSITY OF SOUTHERN MISSISSIPPI (62 hours)			
JUNIOR		SENIOR	
BSC 380/L - General Microbiology	4	Select at least 3 hours of <i>Ecology/Ecosystems</i> :	3
PHY 111/L - General Physics I	4	BSC 340 <i>or</i> BSC 382 <i>or</i> BSC 435/L <i>or</i> BSC 436/L <i>or</i> BSC 440/L <i>or</i> BSC 441/L <i>or</i> BSC 442/L <i>or</i> BSC 443/L <i>or</i> BSC 445/L	
Select at least 3 hours of <i>Physiology</i> : BSC 360 <i>or</i> BSC 431/L <i>or</i> BSC 450 <i>or</i> BSC 452 <i>or</i> BSC 476 <i>or</i> BSC 487/L	3	BSC 495/L (WI) - Applica of Concepts for Secondary School	5
Select one <i>Computer Competency</i> course: PSY 360 <i>or</i> CSS 211 <i>or</i> CSS 240 <i>or</i> CSS 330 <i>or</i> CSS 333	3	SPE 400** - Psychology & Educa of Exceptional Children	3
BSC 370 - Genetics	4	REF 469** - Tests and Measurements	3
PHY 112/L - General Physics II	4	Choose Electives as needed	5
SME 460** - Methods in Teaching Science - Secondary	3	GLY 101/L, REF 400, CHE 471/L recommended	
CIS 313** - Principles of Teaching High School	3	SME 489** - Student Teaching I	6
CIS 302** - Classroom Management	3	SME 490** - Student Teaching II	6
TOTAL	31	TOTAL	31

** **Gold Card** required for this course. Before applying for the Gold Card, students complete 44 hours of General Education courses; they must have a C average in Freshman Composition and an overall GPA of 2.65; they must pass the Basic Technology Literacy Exam (BTLE).

In order to graduate, students must earn a grade of C or better in all content courses, major science courses, and teacher education courses and have an overall GPA of 2.5.