

## BS.BIO.GEN Curriculum 2024

### Track 1 – BS Biology General (BS.BIO.GEN)

Semester 1			Semester 2		
SEM 101	Spartan Seminar 101	1 credit hour	SEM 102	Spartan Seminar 102	1 credit hour
BIO 110/110L	General Biology I	4 credit hours	BIO 111/111L	General Biology II	4 credit hours
ENG 101	College English I	3 credit hours	ENG 102	College English II	3 credit hours
MTH 151	College Algebra	3 credit hours	MTH 153	College Algebra & Trigonometry	3 credit hours
BIO 164	Biology/Health Professions	1 credit hour	Choose one Social Science		3 credit hours
			HIS 100	History of World Societies I	
			POS 100	American Government	
			SOC 110	Introduction to Sociology	
CSC 150	Computer Literacy	3 credit hours	PED 100	Fundamentals of Fitness for Life	1 credit hour
<b>Total Credit Hours</b>		<b>15 credits</b>			<b>15 credits</b>

Semester 3			Semester 4		
SEM 201	Spartan Seminar 201	1 credit hour	HED 100	Personal & Community Health	2 credit hours
BIO 260/BIOR 260R	Zoology OR	5 credit hours	BIO 284	Cell & Molecular Biology	3 credit hours
BIO 261/BIOR 261LR	Botany				
CHM 221/221L	General Chemistry I	4 credit hours	CHM 222/222L	General Chemistry II	4 credit hours
ENG 285	Public Speaking	3 credit hours	ENG 203 or 303	Technical Writing	3 credit hours
<i>Select one Cultural Elective of the following:</i>		3 credit hours	<i>Select one Humanities Elective of the following:</i>		
ENG 383	African American Literature		HUM 210	Humanities	3 credit hours
HIS 335	African American History		HUM 211	Humanities	
HIS 336	African Amer. History Since 1865		ENG 207	Intro to World Literature	
HRP 320	African American Health		FIA 201	Basic Art Appreciation	
MUS 234	African American Music		MUS 301	Music Appreciation	
FIA 370	African American Art				
<b>Total Credit Hours</b>		<b>16 credits</b>			

Semester 5			Semester 6		
BIO 351	Principles of Genetics	3 credit hours	BIO 310	Microbiology	3 credit hours
BIO XXXR	300/400 level biology lab	2 credit hours	BIO 469	Biochemistry	3 credit hours
BIO XXX	Biology Elective	3 credit hours	BIO XXX	Biology Elective	3 credit hours
CHM 321/321L	Organic Chemistry I	5 credit hours	<i>Select one Cultural Elective (see list above)</i>		3 credit hours
XXX	Unrestricted Elective	3 credit hours	XXX	Unrestricted Elective	3 credit hours
<b>Total Credit Hours</b>		<b>16 credits</b>			<b>15 credits</b>

Semester 7			Semester 8		
PHY 152/PHY 152L	Physics I	4 credit hours	PHY 153/PHY 153L	Physics II	4 credit hours
BIO XXX	Biology Elective	3 credit hours	BIO XXX	Biology Elective	3 credit hours
BIO XXX	Biology Elective	3 credit hours	BIO XXX	Biology Elective	3 credit hours
XXX	Unrestricted Elective	3 credit hours	BIO XXX	Unrestricted Elective	3 credit hours
BIO XXXR	300/400 level biology lab	2 credit hours			
<b>Total Credit Hours</b>		<b>15 credits</b>			<b>13 credits</b>

**Total: 120 Credits**

**Biology Core Courses (required):**

BIO 110/100L - General Biology I (4 cr.)  
 BIO 111/111L – General Biology II (4 cr.)  
 BIO 164 – Bio & Health Professions (1 cr.)  
 BIO 260 or 261 – Zoology or Botany (3 cr.)  
 BIO 260R or BIO 261R – Zoology or Botany Research Lab (2 cr.)  
 BIO 284 – Cell & Molecular Biology ( 3 cr.)  
 BIO 310 – Microbiology (3 cr.)  
 BIO 351 – Genetics (3 cr.)  
 BIO 469 – Biochemistry (3 cr.)

**BIO XXX Electives:**

BIO 263 – Vertebrate Embryology (3 cr.)  
 BIO 264 – Developmental Biology (3 cr.)  
 BIO 271 – Ecology (3 cr.) (Fall only)  
 BIO 280 – Anatomy & Physiology I (3 cr.)  
 BIO 281 – Anatomy & Physiology II (3 cr.)  
 BIO 350 - Parasitology (3 cr.) (Spring only)  
 BIO 362 - Histology (3 cr.)  
 BIO 461/461L – Plant Physiology (4 cr.)  
 BIO 474 - Molecular Biology (3 cr.) (**Seniors only**, all others should take BIO 284)  
 BIO 495 – Biostatistics (3 cr.) (Fall/Summer)  
 BIO 497 - Intro to Research (2 cr.)

**BIO XXXR 300/400 Level Labs:**

BIO 310L – Microbiology Lab (1 cr.)  
 (**Graduating seniors only**)  
 BIO 350L – Parasitology Lab (1 cr.) (Spring only)  
 BIO 362 – Histology Lab (1 cr.) (Fall only)  
 BIO 351R – Experimental Genetics Lab (2 cr.)  
 BIO 375R – Anatomy & Physiology Lab (2 cr.)  
 BIO 469R – Biochemistry Lab (2 cr.)  
 BIO 474R – Molecular Biology Lab (2 cr.)