

BS.BIO.PP Curriculum 2024

Track 3 – BS Biology Pre-Professional (BS.BIO.PP)

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	<i>Choose one Social Science:</i> HIS 100 History of World Societies I POS 100 American Government SOC 110 Introduction to Sociology		3 credit hours
CSC 150	Computer Literacy	3 credit hours	PED 100	Fundamentals of Fitness for Life	1 credit hour
Total Credit Hours		15 credits			15 credits

Semester 3			Semester 4		
SEM 201	Spartan Seminar 201	1 credit hour	HED 100	Personal & Community Health	2 credit hours
BIO 260/BIO 260R	Zoology OR	5 credit hours	BIO 284	Cell & Molecular Biology	3 credit hours
BIO 261/BIO 261R	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
MTH 184	Calculus	4 credit hours	<i>Select one Humanities Elective of the following:</i> HUM 210 Humanities HUM 211 Humanities ENG 207 Intro to World Literature FIA 201 Basic Art Appreciation MUS 301 Music Appreciation		3 credit hours
Total Credit Hours		17 credits			15 credits

Semester 5			Semester 6		
BIO 280	Human Anatomy & Physiology I	3 credit hours	BIO 281	Human Anatomy & Physiology II	3 credit hours
BIO 351	Principles of Genetics	3 credit hours	BIO 310	Microbiology	3 credit hours
CHM 321/321L	Organic Chemistry I	5 credit hours	CHM 322/322L	Organic Chemistry II	5 credit hours
<i>Select one Cultural Elective of the following:</i>		3 credit hours	<i>Select one Cultural Elective of the following:</i>		3 credit hours
ENG 383	African American Literature		ENG 383	African American Literature	
HIS 335	African American History		HIS 335	African American History	
HIS 336	African Amer History Since 1865		HIS 336	African American History Since 1865	
HRP 320	African American Health		HRP 320	African American Health	
MUS 234	African American Music		MUS 234	African American Music	
FIA 370	African American Art		FIA 370	African American Art	
BIO XXXR	300/400 level biology lab	2 credit hours			
Total Credit Hours		16 credits			14 credits

Semester 7			Semester 8		
PHY 152/PHY 152L	Physics I	4 credit hours	PHY 153/PHY 153L	Physics II	4 credit hours
BIO 263	Embryology OR	3 credit hours	BIO 469	Biochemistry	3 credit hours
BIO 264	Concepts in Development				
BIO XXX	Biology Elective	3 credit hours	BIO XXX	Biology Elective	3 credit hours
XXX	Unrestricted Elective	3 credit hours	XXX	Unrestricted Elective	3 credit hours
BIO XXXR	300/400 level biology lab	2 credit hours			
Total Credit Hours		15 credits			13 credits

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 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 - 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 461R – Plant Physiology Lab (2 cr.)
 BIO 469R – Biochemistry Lab (2 cr.)
 BIO 474R – Molecular Biology Lab (2 cr.)

*NOTE: These two courses will begin being offered in Fall 2025