

Pre-Biology Program Map: AA/AS Dual Degree



**Academic
& Career
Pathways**
Florida SouthWestern State College

Example Course Sequence

AA/AS Dual Degree

PRE-BIOLOGY

CATALOG YEAR 2025-2026

SCIENCE, ENGINEERING & MATH PATHWAY

This map is for students earning both the Associate in Arts (General Studies) and Associate in Science (Science & Engineering Technology) degrees. Completing both degrees together helps you meet prerequisite and general education requirements to transfer to a Florida public school for a Bachelor's degree in this major. Classes with the symbol help you explore this pathway.



Get to graduation sooner!

Take the AAF Math Placement Test at FSW Testing to see if you qualify for a fast track through your math courses!

Sample Questions:



Schedule Your Test:



Semester 1

Course	Credits	Notes
ENC 1101*	3	
MAT 1033	4	MUST EARN A FOR MAC 1106
CHM 2025	3	SEE ADVISOR IF YOU COMPLETED ONE YEAR OF HIGH SCHOOL CHEMISTRY
CHM 2025L	1	
SLS 1515	3	
Total Semester Credits:	14	

Semester 2

Course	Credits	Notes
ENC 1102*	3	
MAC 1106	4	IF LESS THAN A IN MAT 1033, TAKE MAC 1105
BSC 1010**	3	
BSC 1010L**	1	
CHM 2045	3	
CHM 2045L	1	
Total Semester Credits:	15	

Semester 3

Course	Credits	Notes
MAC 1114	4	IF MAC 1105 IN SEM 2, TAKE MAC 1114 + MAC 1140
BSC 1011	3	
BSC 1011L	1	
Total Semester Credits:	8	
Total Academic Year Credits:	37	

Semester 4

Course	Credits	Notes
MAC 2311	4	
CHM 2046	3	
CHM 2046L	1	
SOCIAL SCI. / CIVIC LIT.	3	CHOOSE AMH 2010, AMH 2020, OR POS 2041
HUMANITIES*	3	CHOOSE HUM 2020, LIT 2000, OR PHI 2010
Total Semester Credits:	14	



PRE-BIOLOGY PROGRAM MAP

Example Course Sequence



Semester 5

Course		Credits	Notes
CHM 2210	ORGANIC CHEMISTRY I	4	ALTERNATE: PHY 2053 OR PHY 2048 ‡
CHM 2210L	ORGANIC CHEMISTRY I LAB	1	ALTERNATE: PHY 2053L OR PHY 2048L ‡
STA 2023	STATISTICAL METHODS I	3	ALTERNATE: MAC 2312 (4 CR)
SOCIAL SCIENCE	ANY GEN. ED. SOCIAL SCIENCE	3	
IDS 2891	CREATIVE CAPSTONE	3	
Total Semester Credits:		15	

Semester 6

Course		Credits	Notes
CHM 2211	ORGANIC CHEMISTRY II	4	ALTERNATE: PHY 2054 OR PHY 2049 ‡
CHM 2211L	ORGANIC CHEMISTRY II LAB	1	ALTERNATE: PHY 2054L OR PHY 2049L ‡
HUMANITIES*	ANY WRITING INTENS. HUMANITIES	3	

‡ Some Bachelor's degree programs require both the Organic Chemistry and Physics sequences to graduate. Depending on school requirements, AA Students may choose to complete either sequence or both at FSW prior to transferring. Discuss with your Advisor.

Total Semester Credits:		8	
Total Academic Year Credits:		37	
Overall Credits:		74	

Pre-Biology Program Map: AA/AS Dual Degree



Transfer Worksheet

AA/AS Dual Degree

PRE-BIOLOGY

CATALOG YEAR 2025-2026

Common Prerequisites & FSW Recommended Courses			Credits	Semester	Example Transfer Requirements**			
					Florida Gulf Coast University	University of Florida	University of South Florida	Other Transfer School:
FSW Cornerstone Experience and Creative Capstone								
SLS 1515	CORNERSTONE EXPERIENCE	3		X	X	X	X	
IDS 2891	CREATIVE CAPSTONE	3		X	X	X	X	
Communication								
ENC 1101*	COMPOSITION I	3		X	X	X		
ENC 1102*	COMPOSITION II	3		X	X	X		
Humanities								
HUMANITIES*	ANY WRITING INTENS. CORE HUMANITIES	3		X	X	X		
HUMANITIES*	ANY WRITING INTENS. HUMANITIES	3		X	X	X		
Social Science								
CIVIC LIT.	CHOOSE AMH 2010, AMH 2020, OR POS 2041	3		X	X	X		
SOCIAL SCI.	ANY GEN. ED. SOCIAL SCIENCE	3		X	X	X		
Mathematics								
MAC 1106	COMB COLL ALG PRE-CALC	4		X	X	X		
MAC 1114	TRIGONOMETRY	4		X	X	X		
Natural Science								
BSC 1010	GENERAL BIOLOGY I**	3		X	X	X		
BSC 1010L	GENERAL BIOLOGY I LAB**	1		X	X	X		
BSC 1011	GENERAL BIOLOGY II	3		X	X	X		
BSC 1011L	GENERAL BIOLOGY II LAB	1		X	X	X		
Electives / Gen. Ed. Flex								
Note regarding Organic Chemistry and Physics: Prerequisite and graduation requirements vary among schools. See the notes below each school and work closely with your Advisor.‡								
CHM 2025	INTRO TO COLLEGE CHEMISTRY (SEE ADVISOR)	3		X	X	X		
CHM 2025L	INTRO TO COLLEGE CHEM LAB (SEE ADVISOR)	1		X	X	X		
CHM 2045	GENERAL CHEMISTRY I	3		X	X	X		
CHM 2045L	GENERAL CHEMISTRY I LAB	1		X	X	X		
CHM 2046	GENERAL CHEMISTRY II	3		X	X	X		
CHM 2046L	GENERAL CHEMISTRY II LAB	1		X	X	X		
CHM 2210	ORGANIC CHEMISTRY I	4		‡	‡	‡		
CHM 2210L	ORGANIC CHEMISTRY I LAB	1		‡	‡	‡		
CHM 2211	ORGANIC CHEMISTRY II	4		‡	‡	‡		
CHM 2211L	ORGANIC CHEMISTRY II LAB	1		‡	‡	‡		
PHY 2048	GENERAL PHYSICS I (OR PHY 2053)	4		‡	‡	‡		
PHY 2048L	GENERAL PHYSICS I LAB (OR PHY 2053L)	1		‡	‡	‡		
PHY 2049	GENERAL PHYSICS II (OR PHY 2054)	4		‡	‡	‡		
PHY 2049L	GENERAL PHYSICS II LAB (OR PHY 2054L)	1		‡	‡	‡		
MAC 2311	CALC W/ANALYTIC GEOMETRY I	4		X	X††	X		
STA 2023	STATISTICAL METHODS I (OR MAC 2312)	3 (OR 4)		X	X††	X		
Foreign Language, Dual Enrollment, and Other Requirements (If Needed)								
ENC 1130†	IMPROVING COL. WRITING (COUNTS AS ELECTIVE)	3		Notes: This plan is mapped against FGCU's Biology B.S. degree. ‡ Students must complete both the Organic Chemistry and Physics sequences to graduate from FGCU's B.S. degree program. AA Students may choose to complete either sequence, or both at FSW. This is aligned with the 2025-26 FGCU Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.	Notes: This plan is mapped against UF's Biology B.S. degree. Consult UF Catalog as biology track requirements differ by specialty. ‡ Students must complete both the Organic Chemistry and Physics sequences to graduate from UF's B.S. program. However, students are not required to complete these sequences as prerequisites for admission. AA students may choose whether to (A) skip the sequences at FSW and complete them later at UF, (B) complete part at FSW and the remainder at UF, or (C) complete the sequences at FSW prior to transferring. X†† Required for B.S. degree in Biology but not required for B.A. degree in Biology. This is aligned with the 2025-26 UF Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.	Notes: This plan is mapped against USF's Biology B.S. degree. ‡ Students must complete both the Organic Chemistry and Physics sequences to graduate from FGCU's Bachelor's degree program. AA students may choose to complete either sequence, or both at FSW. This is aligned with the 2025-26 USF Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.	Notes:	
MAT 0057†	MATH FOR COL. SUCCESS (DEVELOPMENTAL: DOES NOT COUNT AS ELECTIVE OR MATH)	4						
MAT 1033†	INTERMEDIATE ALGEBRA (MUST EARN A TO AVOID EXTRA PRE-REQS) (COUNTS AS ELECTIVE)	4						
MAC 1105†	COLLEGE ALGEBRA (IF LESS THAN A IN MAT 1033)	3						
MAC 1140†	PRE-CALC. ALGEBRA (IF MAC 1105 WAS NEEDED)	3						
Florida Civic Literacy Exam Requirement (FCLE) - Check if Satisfied								
- Classes with the💡 symbol help you explore this pathway. - Students must meet the Core, *Writing Intensive, Civic Literacy, Foreign Language, and College requirements in the FSW College Catalog. - Other classes may be used toward FSW degree requirements, but they might not meet the prerequisite and transfer requirements for your indented Bachelor's degree. - To maintain timely graduation, it is highly recommended that you complete all common prerequisite course work prior to being admitted into a Bachelor's degree program. Some institutions may require that all prerequisites be completed before acceptance into the major. - Total credits for graduation may exceed the numbers indicated. - Your Student Success Advisor can help you make a personalized plan. www.fsw.edu/advising ** The prerequisites for General Biology (BSC 1010/L) are (demonstration of readiness for college-level computation and communication) and (BSC 1005 or 1 credit of high school biology) with a "C" or better. ‡ Only take this class if required by test scores or other college placement requirements. Updated 10/25								

****IMPORTANT:** Schools may have additional transfer requirements not listed here, and prerequisite course requirements can change without notice. Always confirm transfer requirements directly with your destination schools and plan carefully and frequently with your Academic Advisor.

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