

Pre-Med/Vet/Dental School: AA/AS Dual Degree Program Map

Example Course Sequence



Academic
& Career
Pathways
Florida SouthWestern State College

Science, Engineering & Math Pathway

AA/AS Dual Degree

Pre-Medical, Veterinary, or Dental School

Florida SouthWestern State College

Catalog Year 2026-2027

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.



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[Sample Questions](#)



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Semester 1

Course Code	Course Name	Credits	Notes
ENC 1101	COMPOSITION I	3	
MAT 1033	INTERMEDIATE ALGEBRA	4	MUST EARN A FOR MAC 1106
CHM 2025 💡	INTRO TO COLLEGE CHEMISTRY	3	SEE ADVISOR IF YOU COMPLETED ONE YEAR OF HIGH SCHOOL CHEMISTRY
CHM 2025L 💡	INTRO TO COLLEGE CHEMISTRY LAB	1	
SLS 1515	CORNERSTONE EXPERIENCE	3	

Example Semester 1 Credits: 14

Semester 2

Course Code	Course Name	Credits	Notes
ENC 1102	COMPOSITION II	3	
MAC 1106	COMBINED COLLEGE ALGEBRA PRE-CALCULUS	4	IF LESS THAN A IN MAT 1033, TAKE MAC 1105 INSTEAD
BSC 1010** 💡	GENERAL BIOLOGY I	3	
BSC 1010L** 💡	GENERAL BIOLOGY I LAB	1	
CHM 2045	GENERAL CHEMISTRY I	3	
CHM 2045L	GENERAL CHEMISTRY I LAB	1	

Example Semester 2 Credits: 15

Semester 3

Course Code	Course Name	Credits	Notes
MAC 1114	TRIGONOMETRY	4	IF MAC 1105 WAS TAKEN IN SEMESTER 2, TAKE MAC 1114 + 1140 INSTEAD
BSC 1011	GENERAL BIOLOGY II	3	
BSC 1011L	GENERAL BIOLOGY LAB	1	

Example Semester 3 Credits: 8

Example Academic Year Credits: 37

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Semester 4

Course Code	Course Name	Credits	Notes
MAC 2311	CALCULUS W/ANALYTIC GEOMETRY I	4	
CHM 2046	GENERAL CHEMISTRY II	3	
CHM 2046L	GENERAL CHEMISTRY II LAB	1	
SOCIAL SCI. / CIVIC LIT	CHOOSE AMH 2010, AMH 2020, OR POS 2041	3	
CORE HUMANITIES WRITING INTENSIVE	CHOOSE HUM 2020, LIT 2000, OR PHI 2010	3	

Example Semester 4 Credits: 14

Semester 5

Course Code	Course Name	Credits	Notes
CHM 2210	ORGANIC CHEMISTRY I	4	ALTERNATIVE: PHY 2053 OR PHY 2048 ‡
CHM 2210L	ORGANIC CHEMISTRY I LAB	1	
STA 2023	STATISTICAL METHODS I	3	ALTERNATIVE: MAC 2312 (4 CREDITS)
PSY 2012	INTRO TO PSYCHOLOGY	3	PSY 2012 RECOMMENDED; ALTERNATIVE: ANY GEN. ED. SOCIAL SCIENCE
IDS 2891	CREATIVE CAPSTONE	3	

Example Semester 5 Credits: 14

Semester 6

Course Code	Course Name	Credits	Notes
CHM 2211	ORGANIC CHEMISTRY II	4	ALTERNATIVE: PHY 2054 OR PHY 2049 ‡
CHM 2211L	ORGANIC CHEMISTRY II LAB	1	
HUMANITIES WRITING INTENSIVE	ANY WRITING INTENSIVE HUMANITIES	3	

Example Semester 6 Credits: 8

Example Academic Year Credits: 36

Total Required Credits: 73

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Transfer Worksheet



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

Science, Engineering & Math Pathway

AA/AS Dual Degree
**Pre-Medical, Veterinary, or
Dental School**

Catalog Year 2026-2027

This worksheet shows degree and transfer requirements for this future major under the FSW Catalog and the Florida Common Prerequisite Manual. Three example bachelor's degrees are also listed for comparison, showing if the requirements are the same (X mark) or if there are alternative options or required substitutions.

✓	Category	Course Code	Course Name	Credits	Florida Gulf Coast University	University of Florida	University of South Florida
	FSW AA	SLS 1515	CORNERSTONE EXPERIENCE	3	X	X	X
	FSW AA	IDS 2891	CREATIVE CAPSTONE	3	X	X	X
	Communication	ENC 1101	COMPOSITION I	3	X	X	X
	Communication	ENC 1102	COMPOSITION II	3	X	X	X
	Humanities	Your choice	ANY CORE WRI. INTENS. HUMANITIES	3	X	X	X
	Humanities	Your choice	ANY WRITING INTENS. HUMANITIES	3	X	X	X
	Social Science	Any Civic Lit.	CHOOSE AMH 2010, AMH 2020, OR POS 2041	3	X	X	X
	Social Science	PSY 2012	INTRO TO PSYCHOLOGY	3	Any GE Soc. Sci.	PSY 2012 Recommended	Any GE Soc. Sci.
	Mathematics	MAC 1106	COMBINED COLLEGE ALGEBRA PRE-CALC.	4	X	X	X
	Mathematics	MAC 1114	TRIGONOMETRY	4	X	X	X
	Natural Sci.	BSC 1010	**GENERAL BIOLOGY I	3	X	X	X
	Natural Sci.	BSC 1010L	**GENERAL BIOLOGY I LAB	1	X	X	X
	Natural Sci.	BSC 1011	GENERAL BIOLOGY II	3	X	X	X
	Natural Sci.	BSC 1010L	GENERAL BIOLOGY II LAB	1	X	X	X
	Gen. Ed. Flex	MAC 2311	CALCULUS W/ANALYTIC GEOMETRY I	4	X	X††	X
	Gen. Ed. Flex	STA 2023	STATISTICAL METHODS (OR MAC 2312)	3 (or 4)	X	X††	X
	Elective/Prereq	CHM 2025	INTRO TO COLLEGE CHEM (SEE ADVISOR)	3	X	X	X
	Elective/Prereq	CHM 2025L	INTRO TO COL. CHEM LAB (SEE ADVISOR)	1	X	X	X
	Elective/Prereq	CHM 2045	GENERAL CHEMISTRY I	3	X	X	X
	Elective/Prereq	CHM 2045L	GENERAL CHEMISTRY I LAB	1	X	X	X
	Elective/Prereq	CHM 2046	GENERAL CHEMISTRY II	3	X	X	X
	Elective/Prereq	CHM 2046L	GENERAL CHEMISTRY II LAB	1	X	X	X
	Elective/Prereq	CHM 2210	ORGANIC CHEMISTRY I	4	†	†	†
	Elective/Prereq	CHM 2210L	ORGANIC CHEMISTRY I LAB	1	†	†	†
	Elective/Prereq	CHM 2211	ORGANIC CHEMISTRY II	4	†	†	†
	Elective/Prereq	CHM 2211L	ORGANIC CHEMISTRY II LAB	1	†	†	†
	Elective/Prereq	PHY 2048 (OR PHY 2053)	GENERAL PHYSICS I (ALTERNATIVE: COLLEGE PHYSICS I)	4	†	†	†
	Elective/Prereq	PHY 2048L (OR PHY 2053L)	GENERAL PHYSICS I LAB (ALTERNATIVE: COLLEGE PHYS. I LAB)	1	†	†	†
	Elective/Prereq	PHY 2049 (OR PHY 2054)	GENERAL PHYSICS II (ALTERNATIVE: COLLEGE PHYSICS II)	4	†	†	†

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✓	Category	Course Code	Course Name	Credits	Florida Gulf Coast University	University of Florida	University of South Florida
	Elective/Prereq	PHY 2049L (OR PHY 2054L)	GENERAL PHYSICS II LAB (ALTERNATIVE: COLLEGE PHYS. II LAB)	1	‡	‡	‡
	Only if required by test scores	ENC 1130	IMPROVING COLLEGE WRITING (COUNTS AS ELECTIVE)	3	Only if Needed	Only if Needed	Only if Needed
	Only if required by test scores	MAT 0057	MATHEMATICS FOR COLLEGE SUCCESS (DEVELOPMENTAL: DOES NOT COUNT AS ELECTIVE OR MATH)	4	Only if Needed	Only if Needed	Only if Needed
	Only if required by test scores	MAT 1033	INTERMEDIATE ALGEBRA (MUST EARN A TO AVOID EXTRA PREREQS; COUNTS AS ELECTIVE)	4	Only if Needed	Only if Needed	Only if Needed
	If less than A in MAT 1033	MAC 1105	COLLEGE ALGEBRA	3	Only if Needed	Only if Needed	Only if Needed
	If MAC 1105 was needed	MAC 1140	PRE-CALCULUS ALGEBRA	3	Only if Needed	Only if Needed	Only if Needed
	Civic Literacy Exam (FCLE)	REQUIRED TEST	Must Pass FCLE Exam to Graduate from FSW and any Florida Public School	N/A	X	X	X

Florida Gulf Coast University Notes

This Program Map is aligned with FGCU's Biology B.S. degree with Pre-Professional Concentration. ‡ 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 2026-27 FGCU Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.

University of Florida Notes

This Program Map is aligned with UF's Biology B.S. degree with pre-Professional Concentration in the College of Liberal Arts and Sciences (CLAS). Consult UF Catalog as biology track requirements differ by specialty. Must have 3.0+ overall GPA and 3.3+ average GPA on all attempts of required prerequisite courses. ‡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 both sequences at FSW prior to transferring. Classes marked X†† required for B.S. degree in Biology but not required for B.A. degree in Biology. Admission to this program is highly competitive. Visit www.advising.ufl.edu/CLAS-transfer-center/prospective-students for details. This is aligned with the 2026-27 UF Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.

University of South Florida Notes

This Program Map is aligned with USF's Biology B.S. degree with Medical Biology Concentration. ‡ Students must complete both the Organic Chemistry and Physics sequences to graduate from USF's Bachelor's degree program. AA students may choose to complete either sequence, or both at FSW. Applicants cannot earn three D or F grades in Math or Science coursework. See program page in USF Catalog for details. This is aligned with the 2026-27 USF Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.

FSW Notes and Important Information

- Classes with the 💡 symbol help you explore this pathway.
- Students must meet all requirements in the FSW College Catalog, including Core, Writing Intensive, Civic Literacy, Foreign Language, and degree-specific rules. www.fsw.edu/academics/catalog
- Other classes may be used toward FSW degree requirements, but they might not meet the prerequisite and transfer requirements for your intended Bachelor's degree. Total credits for graduation may exceed the numbers indicated. Your Academic Advisor can help you make a personalized plan. www.fsw.edu/advising
- **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.
- 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.

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- **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.