

Mathematics Program Map



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

Example Course Sequence
Associate in Arts (AA): General Studies

MATHEMATICS

CATALOG YEAR 2025-2026

SCIENCE, ENGINEERING & MATH PATHWAY

This map is for students earning the Associate in Arts (General Studies) degree and preparing 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*	COMPOSITION I	3
MAC 1106	COMB. COLLEGE ALGEBRA/PRE-CALC	4
SOCIAL SCI. / CIVIC LIT.	CHOOSE AMH 2010, AMH 2020, OR POS 2041	3
SLS 1515	CORNERSTONE EXPERIENCE	3
Total Semester Credits:		13

Semester 2

Course	Credits	Notes
ENC 1102*	COMPOSITION II	3
MAC 1114	TRIGONOMETRY	4
SOCIAL SCIENCE	ANY GEN. ED. SOCIAL SCIENCE	3
BSC 1010	GENERAL BIOLOGY I	3
BSC 1010L	GENERAL BIOLOGY I LAB	1
Total Semester Credits:		14

Semester 3

Course	Credits	Notes
MAC 2311	CALC W/ANALYTIC GEOMETRY I	4
STA 2023	STATISTICAL METHODS I	3
Total Semester Credits:		7
Total Academic Year Credits:		34

Semester 4

Course	Credits	Notes
MAC 2312	CALC W/ANALYTIC GEOMETRY II	4
COMPUTER PROGRAMMING	UNIVERSITY-SPECIFIC COMPUTER PROGRAMMING CLASS	3 (or more)
HUMANITIES*	ANY WRIT. INTENS. CORE HUMANITIES	3
NATURAL SCIENCE	ANY GEN. ED. NATURAL SCIENCE	4
Total Semester Credits:		14



MATHEMATICS PROGRAM MAP

Example Course Sequence



Semester 5			
Course		Credits	Notes
MAC 2313	CALC W/ANALYTIC GEOMETRY III	4	
IDS 2891	CREATIVE CAPSTONE	3	
HUMANITIES*	ANY WRITING INTENS. HUMANITIES	3	
MAP 2023	DIFFERENTIAL EQUATIONS	4	
Total Semester Credits:		14	
Total Academic Year Credits:		28	
Overall Credits:		62	

Mathematics Program Map



**Academic
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Florida SouthWestern State College

SCIENCE, ENGINEERING & MATH PATHWAY

Transfer Worksheet Associate in Arts (AA): General Studies MATHEMATICS 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 (OR CHM 2045 IF ELIGIBLE)	3		Alternate: (1) Choose: BSC 1010/L, CHM 2045/L, PHY 2048/L, or GLY 1010C plus (2) Any Gen. Ed. Nat. Sci.	Alternate: (1) Choose: BSC 1010/L, CHM 2045/L, or PHY 2048/L, plus (2) Any Gen. Ed. Nat. Sci.	Alternate: (1) Choose: BSC 1010/L, CHM 2045/L, or PHY 2048/L, plus (2) Any Gen. Ed. Nat. Sci.					
	BSC 1010L	GENERAL BIOLOGY I LAB (OR CHM 2045L IF ELIG.)	1									
	NAT. SCI.	ANY GEN ED NATURAL SCIENCE	3-5									
Electives / Gen. Ed. Flex												
	MAC 2311	CALC W/ANALYTIC GEOMETRY I	4		X	X	X					
	STA 2023	STATISTICAL METHODS I	3		Alternate: Any AA Elective	Alternate: Any AA Elective	Alternate: Any AA Elective					
	MAC 2312	CALC W/ANALYTIC GEOMETRY II	4		X	X	X					
	COMPUTER PROGRAMMING	UNIVERSITY-SPECIFIC COMPUTER PROGRAMMING CLASS (COMPLETE VIA FL SHINES - SEE ADVISOR)	3 (or more)		X†	X†	X†					
	MAC 2313	CALC W/ANALYTIC GEOMETRY III	4		X	X	X					
	MAP 2023	DIFFERENTIAL EQUATIONS	4		X	X	X					
Foreign Language, Dual Enrollment, and Other Requirements (if Needed)												
	ENC 1130†	IMPROVING COL. WRITING (COUNTS AS ELECTIVE)	3		Notes: MHF 2191 (Mathematical Foundations) is not required for admission, but will be required to complete FGCU's Mathematics Bachelor's Degree. FSW students may take MHF 2191 as a transient student before transferring to FGCU. Talk to your Advisor. X† Each university has different computer programming requirements. Must complete as transient via FLShines. See your Advisor. This is aligned with the 2025-26 FGCU Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.	Notes: X† Each university has different computer programming requirements. Must complete as transient via FLShines. See your Advisor. This is aligned with the 2025-26 UF Catalog. Admission and prerequisite requirements may change by the time you seek to enroll.	Notes: X† Each university has different computer programming requirements. Must complete as transient via FLShines. See your Advisor. X† May also need COP 2360, based on specific Math major selected at USF. 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†	INTERM. 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 intended 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 pre-requisite 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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