

A.A. Transfer Program Map: Pre-Software/Computer Engineering



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

COMPUTING TECHNOLOGY PATHWAY

ASSOCIATE IN ARTS DEGREE (A.A.):

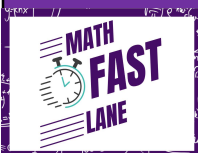
PRE-SOFTWARE/COMPUTER ENGINEERING

CATALOG YEAR 2025 - 2026

Suggested Course Sequence

This map is designed for students planning to transition to a Bachelor's Degree in the Florida State College or State University System after completing an AA degree. This plan includes common required prerequisites and recommended courses for success in the program. Classes with the symbol help you explore this career pathway to see if it's right for you!

Learn about FSW's Computing Technology Degrees: fsw.edu/pathways/computing



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
SLS 1515	CORNERSTONE EXPERIENCE	3
ENC 1101*	COMPOSITION I	3
CHM 2025	INTRO TO COLLEGE CHEMISTRY	3
CHM 2025L	INTRO TO COLLEGE CHEM LAB	1
MAC 1106	COLLEGE ALGEBRA/PRECALCULUS	4
Total Semester Credits:		14

Semester 2

Course	Credits	Notes
MAC 1114	TRIGONOMETRY	4
ENC 1102*	COMPOSITION II	3
CHM 2045	GENERAL CHEMISTRY I	3
CHM 2045L	GENERAL CHEMISTRY I LAB	1
COP 1000	INTRO TO COMPUTER PROGRAMMING	3
Total Semester Credits:		14

Semester 3

Course	Credits	Notes
MAC 2311	CALC W/ANALYTIC GEOMETRY I	4
HUMANITIES*	ANY WRIT. INTENS. CORE HUMANITIES	3
Total Semester Credits:		7
Total Academic Year Credits:		35

Semester 4

Course	Credits	Notes
MAC 2312	CALC W/ANALYTIC GEOMETRY II	4
PHY 2048	GENERAL PHYSICS I	4
PHY 2048L	GENERAL PHYSICS I LABORATORY	1
COP 2800	JAVA PROGRAMMING	3
SOCIAL SCI. / CIVIC LIT.	CHOOSE AMH 2010, AMH 2020 OR POS 2041	3
Total Semester Credits:		15



SCIENCE, ENGINEERING, & MATH PATHWAY
ASSOCIATE IN ARTS DEGREE (A.A.):
PRE-SOFTWARE/COMPUTER
ENGINEERING



Suggested Course Sequence

Semester 5			
Course		Credits	Notes
IDS 2891	CREATIVE CAPSTONE	3	
PHY 2049	GENERAL PHYSICS II	4	
PHY 2049L	GEN PHYSICS II LAB	1	
HUMANITIES*	ANY WRITING INTENS. HUMANITIES	3	
MAC 2313	CALC W/ANALYTIC GEOMETRY III	4	
Total Semester Credits:		15	
Semester 6			
Course		Credits	Notes
ECO 2013	PRINCIPLES OF MACROECONOMICS	3	
MAP 2302	DIFFERENTIAL EQUATIONS I	4	
Total Semester Credits:		7	
Total Academic Year Credits:		37	
Overall Credits:		72	

- Students must meet the Core, *Writing Intensive, Civic Literacy, Foreign Language, and College requirements defined in the College Catalog.
 - It is recommended for students to check with their transfer institution regarding the transferability of major-specific coursework.
 - Classes not listed here may be used to satisfy AA degree requirements. However, there are prerequisite courses required for specific programs at every Florida public college and university.
 - 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.
 - Your Student Success Advisor can help you make a personalized plan. www.fsw.edu/advising
- Updated 3/25

A.A. Degree Transfer Worksheet: Pre-Software/Computer Engineering

CATALOG YEAR 2025-2026



SCIENCE, ENGINEERING & MATH PATHWAY



Use this worksheet to plan ahead and keep track of courses you have taken, as you progress through your A.A. degree and prepare to transition to a Bachelor's Degree. This checklist also includes example modifications for popular transfer schools. ****NOTE: Prerequisites and transfer requirements can change without notice. Always confirm with your advisor and your intended school. Classes with the ⚡ symbol help you explore this career pathway to see if it's right for you!**

Common Pre-Requisites & 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	
ECO 2013	PRINCIPLES OF MACROECONOMICS	3		Alternate: Any Gen. Ed. Social Science	Alternate: Any Gen. Ed. Social Science	Alternate: Any Gen. Ed. Social Science	
Mathematics							
MAC 1106	COMB. COLLEGE ALGEBRA/PRE-CALC	4		X	X	X	
MAC 1114	TRIGONOMETRY	4		X	X	X	
Natural Science							
CHM 2025	INTRO TO COLLEGE CHEMISTRY	3		Work with Advisor to choose N.Sci. Alternate: BSC 1010/L OR GLY 1010C	Work with Advisor to choose N.Sci. Alternate: BSC 1010/L	Needed if not taken in HS	
CHM 2025L	INTRO TO COLLEGE CHEM LAB	1					
CHM 2045	GENERAL CHEMISTRY I	3					
CHM 2045L	GENERAL CHEMISTRY I LAB	1				X	
Electives / Gen. Ed. Flex							
COP 1000 ⚡	INTRO TO COMPUTER PROGRAMMING	3		X	Alternate: Any AA Elective	X	
COP 2800	JAVA PROGRAMMING	3		X	Alternate: Any AA Elective	X	
MAC 2311	CALC W/ANALYTIC GEOMETRY I	4		X	X++	X	
MAC 2312	CALC W/ANALYTIC GEOMETRY II	4		X	X++	X	
MAC 2313	CALC W/ANALYTIC GEOMETRY III	4		X	X++	X	
MAP 2302	DIFFERENTIAL EQUATIONS I	4		X	X++	X	
PHY 2048	GENERAL PHYSICS I	4		X	X++	X	
PHY 2048L	GENERAL PHYSICS I LAB	1		X	X++	X	
PHY 2049	GENERAL PHYSICS II	4		X	X++	X	
PHY 2049L	GEN PHYSICS II LAB	1		X	X++	X	
Foreign Language, Dual Enrollment, and Other Requirements (If Needed)							
ENC 1130+	IMPROVING COL. WRITING (COUNTS AS ELECTIVE)	3		Notes: At FGCU this major is called Software Engineering. STA 2023 is required in addition to courses listed.	Notes: At UF this major is called Computer Engineering. Courses marked X++ may only be attempted a maximum of two times.	Notes: At USF this major is called Computer Engineering.	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 ADDITIONAL 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							
<ul style="list-style-type: none"> - Students must meet the Core, *Writing Intensive, Civic Literacy, Foreign Language, and College requirements as outlined in the College Catalog. - It is recommended for students to check with their transfer institution regarding the transferability of major specific coursework. - Classes not listed here may be used to satisfy AA degree requirements. However, there are pre-requisite courses required for specific programs at every Florida public college and university. - 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. - Your Student Success Advisor can help you make a personalized plan. www.fsw.edu/advising <p>†Only take this class if required by test scores or other college placement requirements. Total credits for degree may exceed the number indicated.</p>							

****IMPORTANT:** This tool is designed to help you plan. 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.