

# Pre-Computer Science Program Map

## Example Course Sequence



Academic  
& Career  
Pathways  
Florida SouthWestern State College

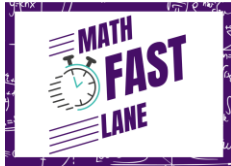
Associate in Arts: General Studies

## Pre-Computer Science

Catalog Year 2026-2027

### Computing Technology 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 advanced math placement tests at the FSW Testing Center to see if you qualify for a fast track through your math courses!

[Sample Questions](#)



[Schedule Your Test](#)



### Learn about FSW's Computing Technology Degrees:

[fsw.edu/pathways/computing](https://fsw.edu/pathways/computing)

#### Semester 1

| Course Code                                                                                  | Course Name                   | Credits | Notes                                                |
|----------------------------------------------------------------------------------------------|-------------------------------|---------|------------------------------------------------------|
| SLS 1515                                                                                     | CORNERSTONE EXPERIENCE        | 3       |                                                      |
| ENC 1101                                                                                     | COMPOSITION I                 | 3       |                                                      |
| MAC 1106  | COMB. COLLEGE ALGEBRA/PRECALC | 4       | ALTERNATIVE: MAC 1105 (IF NOT ELIGIBLE FOR MAC 1106) |
| COP 1000  | INTRODUCTION TO PROGRAMMING   | 3       |                                                      |

**Example Semester 1 Credits: 13**

#### Semester 2

| Course Code                                                                                  | Course Name                            | Credits | Notes                                                            |
|----------------------------------------------------------------------------------------------|----------------------------------------|---------|------------------------------------------------------------------|
| MAC 1114                                                                                     | TRIGONOMETRY                           | 4       | ALTERNATIVE: IF MAC 1105 IN SEMESTER 1, TAKE MAC 1114 + MAC 1140 |
| ENC 1102                                                                                     | COMPOSITION II                         | 3       |                                                                  |
| COP 2800  | JAVA PROGRAMMING                       | 3       |                                                                  |
| CORE HUM. WRI. INTEN.                                                                        | CHOOSE HUM 2020, LIT 2000, OR PHI 2010 | 3       |                                                                  |
| SOCIAL SCI. / CIVIC LIT                                                                      | CHOOSE AMH 2010, AMH 2020, OR POS 2041 | 3       |                                                                  |

**Example Semester 2 Credits: 16**

#### Semester 3

| Course Code | Course Name                    | Credits | Notes                                      |
|-------------|--------------------------------|---------|--------------------------------------------|
| MAC 2311    | CALCULUS W/ANALYTIC GEOMETRY I | 4       |                                            |
| STA 2023    | STATISTICAL METHODS I          | 3       | USF SUBSTITUTION: BSC 1011/L OR CHM 2046/L |
| HUMANITIES  | ANY GEN. ED. HUMANITIES        | 3       |                                            |

**Example Semester 3 Credits: 10**

**Example Academic Year Credits: 39**

# Pre-Computer Science Program Map

## Semester 4

| Course Code           | Course Name                       | Credits | Notes |
|-----------------------|-----------------------------------|---------|-------|
| PHY 2048              | GENERAL PHYSICS I                 | 4       |       |
| PHY 2048L             | GENERAL PHYSICS I LAB             | 1       |       |
| MAC 2312              | CALCULUS W/ANALYTIC GEOMETRY II   | 4       |       |
| SOC. SCI. WRI. INTEN. | ANY WRITING INTENSIVE SOCIAL SCI. | 3       |       |

**Example Semester 4 Credits: 12**

## Semester 5

| Course Code | Course Name                     | Credits | Notes                                      |
|-------------|---------------------------------|---------|--------------------------------------------|
| MAC 2313    | CALCULUS W/ANALYTIC GEOMETRY II | 4       | USF SUBSTITUTION: BSC 1011/L OR CHM 2046/L |
| PHY 2049    | GENERAL PHYSICS II              | 4       |                                            |
| PHY 2049L   | GENERAL PHYSICS II LAB          | 1       |                                            |
| IDS 2891    | CREATIVE CAPSTONE               | 3       |                                            |

**Example Semester 5 Credits: 12**

**Example Academic Year Credits: 24**

**Total Required Credits: 63**

# Pre-Computer Science Program Map

## Transfer Worksheet

Associate in Arts: General Studies

## Pre-Computer Science

Catalog Year 2026-2027



Academic  
& Career  
Pathways  
Florida SouthWestern State College

Computing Technology Pathway

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 WRITING INTENS. CORE HUMANITIES                                          | 3       | X                             | X                            | X                                                     |
|   | Humanities                      | Your choice | ANY GEN. ED. HUMANITIES                                                      | 3       | X                             | X                            | X                                                     |
|   | Social Science                  | Civic Lit.  | CHOOSE AMH 2010, AMH 2020, OR POS 2041                                       | 3       | X                             | X                            | X                                                     |
|   | Social Science                  | Your choice | ANY WRITING INTENS. GE SOCIAL SCIENCE                                        | 3       | X                             | X                            | X                                                     |
|   | Mathematics                     | MAC 1106    | COMBINED COLLEGE ALGEBRA/PRE-CALC.                                           | 4       | X                             | X                            | X                                                     |
|   | Mathematics                     | MAC 1114    | TRIGONOMETRY                                                                 | 4       | X                             | X                            | X                                                     |
|   | Natural Sci.                    | PHY 2048    | GENERAL PHYSICS I                                                            | 4       | X                             | X                            | X                                                     |
|   | Natural Sci.                    | PHY 2048L   | GENERAL PHYSICS I LAB                                                        | 1       | X                             | X                            | X                                                     |
|   | Natural Sci.                    | PHY 2049    | GENERAL PHYSICS II                                                           | 4       | X                             | X                            | X                                                     |
|   | Natural Sci.                    | PHY 2049L   | GENERAL PHYSICS II LAB                                                       | 1       | X                             | X                            | X                                                     |
|   | Gen. Ed. Flex                   | MAC 2311    | CALCULUS W/ANALYTIC GEOMETRY I                                               | 4       | X                             | X                            | X                                                     |
|   | Gen. Ed. Flex                   | MAC 2312    | CALCULUS W/ANALYTIC GEOMETRY II                                              | 4       | X                             | X                            | X                                                     |
|   | Elective/Prereq                 | MAC 2313    | CALCULUS W/ANALYTIC GEOMETRY III                                             | 4       | X                             | X                            | Required substitution:<br>BSC 1010/L<br>or CHM 2045/L |
|   | Elective/Prereq                 | STA 2023    | STATISTICAL METHODS I                                                        | 3       | X                             | Not required †               | Required substitution:<br>BSC 1010/L<br>or CHM 2045/L |
|   | Elective/Prereq                 | COP 1000    | INTRODUCTION TO PROGRAMMING                                                  | 3       | X                             | Alternative:<br>Any Elective | X                                                     |
|   | Elective/Prereq                 | COP 2800    | JAVA PROGRAMMING                                                             | 3       | X                             | Alternative:<br>Any Elective | X                                                     |
|   | Only if required by test scores | ENC 1130    | IMPROVING COLLEGE WRITING<br>(COUNTS AS ELECTIVE)                            | 3       | Only if Needed                | Only if Needed               | Only if Needed                                        |
|   | Only if required by test scores | MAT 0057    | MATH FOR COL. SUCCESS<br>(DEVELOPMENTAL: DOES NOT COUNT AS ELECTIVE OR MATH) | 4       | Only if Needed                | Only if Needed               | Only if Needed                                        |

# Pre-Computer Science Program Map

| ✓ | Category                        | Course Code   | Course Name                                                                         | Credits | Florida Gulf Coast University | University of Florida | University of South Florida |
|---|---------------------------------|---------------|-------------------------------------------------------------------------------------|---------|-------------------------------|-----------------------|-----------------------------|
|   | Only if required by test scores | MAT 1033      | INTERMEDIATE ALGEBRA<br>(MUST EARN A TO AVOID EXTRA PREREQS;<br>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 Computer Science BS degree. 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 Computer Science BSCS degree in the College of Engineering. † UF does not require STA 2023. Students may omit this class if credit is not needed to complete the AA degree. For the BSCS degree, UF strongly encourages completion of PHY 2049/L prior to transfer (other computer science programs at UF may have alternate physics options). Must have 3.0+ GPA in required prerequisite courses. 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 Computer Science BSCS degree. USF requires 6 credits of natural science in addition to PHY 2048/L and PHY 2049. USF does not require MAC 2313 or STA 2023. 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](http://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](http://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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