

# BS Applicant Program Map



## Bachelor of Science Degree (BS) Cardiopulmonary Sciences

Health Sciences Pathway

Florida SouthWestern State College  
Catalog Year 2025-2026

The Bachelor of Science (BS) in Cardiopulmonary Sciences is a program designed for cardiovascular technologists and respiratory care professionals who want to advance their education.

The BS in Cardiopulmonary Sciences program can be completed 100% online.

### Minimum Requirements to Apply to the BS in Cardiopulmonary Sciences

- Complete the [Bachelor's Degree application](#). For new FSW students, this includes payment of the \$30 College application fee.
- Applicants must possess licensure, certification, or registration from the profession in which the applicant is practicing with one of the following credentials:
  - Registered Respiratory Therapist (RRT) from the National Board for Respiratory Care
  - Registered Cardiovascular Invasive Specialist (RCIS) or other registry level credentials from Cardiovascular Credentialing International
  - Registered Diagnostic Cardiac Sonographer (RDCS) from the American Registry of Diagnostic Medical Sonographers.
- Applicants must possess one of the following:
  - An Associate in Science (AS) degree in either Cardiovascular Technology or Respiratory Care from any college or university accredited by a regional accrediting association as defined by State Board of Education rule, with a minimum of 60 credit hours earned. **OR**
  - A minimum of 60 credit hours, with all General Education and Electives met, may apply for admission. Students must possess licensure, certification, or registration from the profession in which the applicant is practicing as noted above.
- Cumulative GPA 2.00+, based on all prior college-level coursework.
- If applicable, all official transcripts from outside institutions must be received and evaluated by the FSW Registrar's Office.

### Bachelor of Science - Cardiopulmonary Sciences Degree Requirements Core Course Requirements

Course Code	Course Name	Credits	When Offered	Met ✓
HSC 4159	ADVANCED MEDICAL PHARMACOLOGY	3	SPRING	
RET 4050	RESEARCH METHODS	3	SPRING	
RET 4536	CARDIOPULMONARY REHABILITATION	3	SPRING	
HSC 4555	PATHOPHYSIOLOGIC MECHANISMS	3	SUMMER	
RET 4505	CHEST MEDICINE	3	SUMMER	
HSC 4652	HEALTH CARE ETHICS	3	FALL	
RET 4445	ADV. CARDIOPULMONARY DIAGNOSTICS AND INTERVENTIONS	3	FALL	
RET 4524	EDUCATION IN COMMUNITY AND ACUTE HEALTHCARE ENV.	3	FALL	
RET 4715	ADVANCED NEONATAL AND PEDIATRIC MEDICINE	3	FALL	
RET 4933	SELECTED TOPICS IN CARDIOPULMONARY SCIENCES (FINAL TERM)	3	FALL OR SPRING	

### Choose One of the Following Electives

Course Code	Course Name	Credits	When Offered	Met ✓
HSA 4184	MANAGEMENT STRATEGIES OF HEALTHCARE ORGANIZATIONS	3	SUMMER	
HSA 3113	CONTEMPORARY ISSUES IN HEALTH CARE	3	FALL	
HSA 3430	HEALTH CARE ECONOMICS	3	SPRING	
MAN 3301	HUMAN RESOURCES MANAGEMENT	3	FALL	
RET 4034	PROBLEMS IN PATIENT MANAGEMENT (RT ONLY)	3	SPRING PERIODICALLY	

## General Education and Program Specific Requirements †

Category	Course Code	Course Name	Credits	When Offered	Met ✓
COMMUNICATION	ENC 1101	ENGLISH COMPOSITION I	3	FALL/SPRING/SUMMER	
COMMUNICATION	ENC 1102	ENGLISH COMPOSITION II	3	FALL/SPRING/SUMMER	
HUMANITIES	-	ANY CORE GENERAL EDUCATION HUMANITIES	3	FALL/SPRING/SUMMER	
HUMANITIES	-	ANY GENERAL EDUCATION HUMANITIES	3	FALL/SPRING/SUMMER	
MATHEMATICS	-	ANY CORE GENERAL EDUCATION MATHEMATICS	3	FALL/SPRING/SUMMER	
MATHEMATICS	-	ANY GENERAL EDUCATION MATHEMATICS	3	FALL/SPRING/SUMMER	
SOCIAL SCIENCE	-	ANY GENERAL EDUCATION SOCIAL SCIENCE	3	FALL/SPRING/SUMMER	
†† SOCIAL SCI./ CIVIC LITERACY (CHOOSE ONE)	AMH 2010 AMH 2020 POS 2041	HISTORY OF THE US SINCE 1877 HISTORY OF THE US TO 1877 AMERICAN NATIONAL GOVERNMENT	3	FALL/SPRING/SUMMER	
†† FL. CIVIC LIT. EXAM (FCLE)	-	†† MUST PASS FCLE EXAM. SEE NOTE BELOW	-	FALL/SPRING/SUMMER	
NATURAL SCI. WITH LAB (CHOOSE ONE)	BSC 1005/L BSC 1010/L CHM XXXX/L	SURVEY OF BIOLOGY WITH LAB GENERAL BIOLOGY WITH LAB ANY GEN. ED. CHEMISTRY WITH LAB	4	FALL/SPRING/SUMMER	
NATURAL SCI.	MCB 2010C	MICROBIOLOGY	4	FALL/SPRING/SUMMER	
PROGRAM REQ.	BSC 1085C	ANATOMY & PHYSIOLOGY I	4	FALL/SPRING/SUMMER	
PROGRAM REQ.	BSC 1086C	ANATOMY & PHYSIOLOGY II (ADD'L NAT. SCI.)	4	FALL/SPRING/SUMMER	
WRITING INTENS.	-	**SEE NOTE BELOW	-	FALL/SPRING/SUMMER	
FOREIGN LANG.	-	***SEE NOTE BELOW	-	FALL/SPRING/SUMMER	
ELECTIVE CREDITS	-	***SEE NOTE BELOW	-	FALL/SPRING/SUMMER	
GEN. ED. FLEX	-	***SEE NOTE BELOW	-	FALL/SPRING/SUMMER	

## Program and Curriculum Notes

† Students with the following awards earned have already met the Florida General Education requirement. These students may still need to meet the Civic Literacy†† and Foreign Language\*\*\* requirements. Even if the General Education requirement is met through prior coursework, all students must pass MCB 2010C, BSC 1085C, BSC 1086C, and one of the following BSC 1005/L, BSC 1010/L or CHM XXXX/L (if not already passed at a regionally accredited institution acceptable for transfer to FSW).

Award Earned	Type of Institution
“Gen Eds met” designation noted on transcript	Any Florida public college or university
A.A. Degree	Any Florida public college or university
Bachelor’s Degree (B.A., B.S., and/or any other baccalaureate degree)	Any regionally-accredited higher education institution.

**\*\* Writing Intensive Credits:** Twelve (12) credits of writing intensive credits are required. Students will earn three (3) writing intensive credits with ENC 1101 and three (3) writing intensive credits with ENC 1102.

**†† Civic Literacy Requirement: (complete both steps):**

1. Complete one of these courses:
  - a. AMH 2020: History of the United States Since 1877
  - b. POS 2041: American National Government
  - c. AMH 2010: History of the United States To 1877
2. Pass the Florida Civic Literacy Exam (FCLE) with a score of 60% or higher.
  - a. The FCLE is free and available through the [FSW Testing Center](#)
  - b. Study materials and registration information: [FCLE Resources](#)

**\*\*\* Foreign Language Requirement / Elective Credits / General Education Flex:** All students pursuing a Bachelor's Degree in Florida must complete the Foreign Language, Elective Credit, and General Education Flex requirements, as outlined in the FSW College Catalog. Please consult with your advisor regarding completion of these requirements. Foreign Language Competency Requirement may be met by:

- 2 years of the same High School Foreign Language, or
- Documented foreign language proficiency through testing, or
- 2 semesters of the same College Level Foreign Language (level II proficiency), or

Level II proficiency - this criterion occurs when a student has completed the second course of a sequence of college foreign language without completing the first course. For example, if a student has successfully completed a college-level Spanish II but not Spanish I, then the student has met the Foreign Language Competency requirement.

**Program curriculum and admissions criteria are subject to change. Always Check Website for Program Updates:**

<https://www.fsw.edu/academics/programs/bscardiopulmonary>

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