



Cardiopulmonary Sciences, B.S. Degree

Program Information

BS Degree - Code 660000 - Catalog 2023/2024

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Program Mission, Description, and Outcomes

Mission:

The mission of the Bachelor of Science in Cardiopulmonary Sciences program is to enhance a respiratory therapist's ability to function in clinical, teaching, administrative, or research environments by offering a scholarly, comprehensive, innovative program that promotes excellence in Respiratory Care. The program offers opportunities for students to apply respiratory care knowledge to changing healthcare environments amidst the rapidly expanding scope of practice.

Description:

The Daytona State College B.S. in Cardiopulmonary Sciences (BSCS) degree program is designed specifically to meet the needs of practicing respiratory therapists who wish to obtain advanced training in Respiratory Care. Applicants must hold an Associate of Science (A.S.) or Associate of Applied Science (A.A.S.) degree from a Commission on Accreditation for Respiratory Care (CoARC) accredited institution to be admitted to the program. They must also obtain the Registered Respiratory Therapist (RRT) credential to complete the program.

The BSCS accelerated program is completely online and applications for admission are accepted anytime during the year.

Program Accreditation: The Cardiopulmonary Science, B.S. program is planned to be accredited by the Commission on Accreditation for Respiratory Care (CoARC), 264 Precision Blvd. Telford, TN 37690 (817) 283-2835. Accreditation provides consumer protection, advances and enhances the profession of Respiratory Care and protects against compromise of educational quality.

College Accreditation: Daytona State College is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associates and bachelor's degrees. Questions about the accreditation of Daytona State College may be directed in writing to the Southern Association of Colleges and Schools Commission on Colleges at 1866 Southern Lane, Decatur, GA 30033-4097, by calling (404) 679-4500, or by using information available on SACSCOC's website (www.sacscoc.org).

Program Educational Outcomes:

To provide graduates of entry into respiratory care professional practice degree programs with additional knowledge, skills, and attributes in leadership, management, education, research, and/or advanced clinical

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practice that will enable them to meet their current professional goals and prepare them for practice as advanced degree respiratory therapists.

Outcomes: (Program Goals)

Graduates of the Bachelor of Science in Cardiopulmonary Science will be able to:

1. Plan care in accordance with management and leadership principles for patients across the lifespan.
2. Integrate inherent values as defined by health law and ethics as a foundation for practice.
3. Synthesize knowledge of advanced therapeutics to improve patient-care outcomes.
4. Examine safe and appropriate care based on health promotion, disease, and injury prevention to improve population health.
5. Understand the importance of research to identify best evidence-based practices in health care.

Financial Aid

This program is eligible for federal financial aid and state Bright Futures Scholarship Program.

Financing Options: All students are encouraged to apply for federal and state student financial assistance by completing their FAFSA at <https://studentaid.gov/h/apply-for-aid/fafsa>. For more information on grants, loans, and work programs available see the Office of Financial Aid webpage at <https://www.daytonastate.edu/financial-aid/index.html>. Students are also encouraged to apply for one of the many Daytona State College Foundation scholarships offered each semester. For more information see: <https://www.daytonastate.edu/scholarships/index.html>.

Additional Admission Requirements

- This is a limited access program. Students must have a conferred A.S. or A.A.S in Respiratory Care from a CoARC accredited program at a regionally accredited institution.
- Applicants must complete a Bachelor of Science in Cardiopulmonary Science Application for Admission in the Admissions Office or online: [Apply Now](#). All applicants must provide an official transcript from all previous institutions attended.
- Students must have a 2.0 or greater cumulative GPA on all college coursework.

Official transcripts from all postsecondary institutions attended must be received for evaluation by the Records Office at Daytona State. International students must have their transcripts evaluated by a member of the National Association of Credential Evaluation Services (NACES) naces.org/members.htm.

Additional Completion Requirements

- Students must complete the state mandated 36 hours of general education core prior to graduation:
 - Communications - 9 credits; Mathematics - 6 credits; Natural Sciences - 6 credits; Humanities - 6 credits; Social Science - 9 credits.
- Students must complete all 36 upper-division credit hours of the Cardiopulmonary, B.S. program specific courses.
- Students must have completed [BSC1085C](#), [BSC1086C](#) and [MCB1010C](#) (or equivalent or higher) with a grade of "C" or better.

- Students must have completed two years of the same foreign language in high school or two semesters of the same college level foreign language to graduate.
- Students must meet the requirements of the College-Level Communication and Computational Skills and the Civic Literacy Competency Administrative Rules to graduate.
- Students must successfully pass the National Board for Respiratory Care Therapist Multiple Choice and Clinical Simulation Exam to obtain the Registered Respiratory Therapist Credential. Successful completion of these exams validates the knowledge and clinical competencies required to be a competent Respiratory Therapist. Submission of proof will be required to obtain college credit for course RET3990 Respiratory Therapy Professional Credentialing.

Note: Need help preparing for your job search? Login to [Daytona State's Career Services Online \(CSO\)](#) to create your personal career account, or [email](#) your Daytona State College Career Advisor.

Program Credit Requirements

	General Education Credits	36.00
	Associate Degree Program Specific and Elective Credits	48.00
	Cardiopulmonary Science BS Program Specific Credits	36.00
TOTAL	...	120.00

Note: Prior to enrollment in college-level English or math courses, some students may be advised to complete college preparatory/developmental course work. See an Academic Advisor to determine developmental course requirements.

Program Specific Courses

RET4354	Advanced Pharmacology	3
HSC4550	Pathophysiology for Health Care	3
RET3990	Respiratory Therapy Professional Credentialing	3
HSC4644	Legal and Ethical Aspects of Health Care	3
RET4445	Cardiopulmonary Diagnostics	3
HSA4107	Health Services Administration	3
RET4245	Advanced Life Support	3
HSA4383	Quality Management and Process Improvement	3
HSC3730	Research Methods for Health Professions	3
RET3536	Cardiopulmonary Rehabilitation	3
RET3041	Cardiopulmonary Education and Promotion	3
RET4912	Respiratory Care Capstone	3

RET4912: This capstone course is the final course in this program.

Sample Program of Study

Year 1

1st Semester

	Communication Core	3
	Mathematics Core	3
RET4354	Advanced Pharmacology	3
HSC4550	Pathophysiology for Health Care	3
RET3990	Respiratory Therapy Professional Credentialing	3
	Subtotal	15

2nd Semester

HSC4644	Legal and Ethical Aspects of Health Care	3
RET4445	Cardiopulmonary Diagnostics	3
	Communication Core	3
	Social Science	3
	Subtotal	12

Social Science: Students who need to meet the Civic Literacy Competency graduation requirement must take [AMH2020](#) or [POS2041](#).

Year 2

3rd Semester

HSA4107	Health Services Administration	3
RET4245	Advanced Life Support	3
HSA4383	Quality Management and Process Improvement	3
	Humanities	3
	Natural Science	3
	Subtotal	15

4th Semester

HSC3730	Research Methods for Health Professions	3
RET3536	Cardiopulmonary Rehabilitation	3
RET3041	Cardiopulmonary Education and Promotion	3
RET4912	Respiratory Care Capstone	3
	Subtotal	12

***RET4912:** This capstone course is the final course in this program.*

Note: Sequence of courses may vary. Check [catalog course descriptions](#) for requisite requirements.