

# BIOMEDICAL TECHNOLOGY SPECIALIZATION - CHEMICAL TECHNOLOGY, ASSOCIATE IN SCIENCE

**Program Code:** CHASBIO

**Meta-Major:** STEM

**Location(s):** Cocoa, Melbourne, Palm Bay, Titusville

**Delivery Method(s):** On-Campus, Hybrid, Online

**Previous Degree Required:** HS Diploma

**Eligible for Financial Aid:** Yes

**Additional Limited Access Application Process Required:** No

**Program Testing Requirements:** CPT - Common Placement Test (PERT, ACCUPLACER, SAT, ACT)

**Classification of Instructional Programs (CIP) Code:** 41.0301

**Florida Department of Education CIP Code:** 1641030100

Students can only select one major and one specialization. Students may receive a specific A.S./B.A.S. degree only one time. While students may take courses from multiple specializations, however, the degree will be awarded only once.

[Visit the program page for more details and how to apply.](#)

## Specialization Requirements

Code	Title	Credit Hours
<b>General Education Courses</b>		
BSCC 1010	General Biology 1	4
ENC 1101	Composition 1	3
MAC 1105	College Algebra	3
SPC 2608	Fundamentals of Speech Communication	3
	<a href="#">Humanities Core Requirement</a>	3
	<a href="#">Social/Behavioral Science/Core-Civic Literacy Requirement</a>	3
<b>Major Courses</b>		
CHM 1045	General Chemistry 1	3
CHM 1046	General Chemistry 2	3
CHML 1045	General Chemistry 1 Laboratory	1
CHML 1046	General Chemistry 2 Laboratory	1
CGS 1000	Exploring Digital Technology	3
or CGS 2100	Microcomputer Applications	
<b>Biomedical Technology Specialization</b>		
BSCC 1011	General Biology 2	4
BSCC 1426	Introduction to Biotechnology Methods	4
BSCC 2093	Human Anatomy and Physiology 1	4
BSCC 2094	Human Anatomy and Physiology 2	4
<b>Technical Electives</b>		<b>18</b>
BSCC 1427	Introduction to Biotechnology Methods 2	
BSCC 2910	Biological Research	
CHM 2941	Chemistry Internship	
CHMC 2910	Chemical Research	
ECO 2023	Principles of Economics 2 (Microeconomics)	
ENC 2210	Technical Writing	

HSC 1531	Medical Terminology
HSCC 1000	Introduction to Healthcare
MAC 1114	College Trigonometry
MAC 1140	Precalculus Algebra
MAC 1147	Precalculus Algebra/Trigonometry
MAC 1233	Essentials of Calculus
MAC 2311	Calculus 1 with Analytic Geometry
MAC 2312	Calculus 2 with Analytic Geometry
MAC 2313	Calculus 3 with Analytic Geometry
MAP 2302	Differential Equations
MAT 1033	Intermediate Algebra
MCBC 2010	Microbiology for Health Sciences
PHY 2025	Introduction to Principles of Physics
PHYL 2048	General Physics 1 Laboratory
PHYL 2049	General Physics 2 Laboratory
STA 2023	Statistics

**Total Credit Hours** **64**

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**Note:** Courses in the four specializations above can be used as technical electives as long as they are not being used to fulfill the specialization requirement.

## Learning Outcomes: Chemical Technology A.S.

- Produce valid written scientific records
  - Supports Core Ability: Communicate Effectively
- Manipulate data to construct and interpret appropriate graphs.
  - Supports Core Ability: Process Information
- Working in a group, explore a scientific topic of interest.
  - Supports Core Ability: Work Cooperatively
- Demonstrate basic foundational knowledge of scientific and chemical concepts.
  - Supports Core Ability: Think Critically & Solve Problems
- Select and utilize appropriate glassware, chemicals, and laboratory equipment to complete a common laboratory task.
  - Supports Core Ability: Think Critically & Solve Problems
- Solve Chemical Kinetics or Equilibrium Problems.
  - Supports Core Ability: Think Critically & Solve Problems
- Demonstrate appropriate interpersonal skills, decision-making strategies, and awareness of self-worth, ethics and values.
  - Supports Core Ability: Model Ethical and Civic Responsibility