

Biomedical Sciences Program Roadmap

Use this roadmap to guide your progress and keep you moving toward graduation.

- ☒ **Avoid surprises** – Meet with your advisor each term to monitor your progress, review the foreign language requirement and address concerns early.
- ☒ **Review course requirements** – Check course prerequisites, corequisites, and conditions before registering each term to ensure you meet all requirements and stay on track for graduation.
- ☒ **Stay eligible** – Maintain your GPA and complete required courses to remain in good standing.
- ☒ **Graduate on time** – Stay on schedule to avoid delays and excess credit hours that may not be covered by financial aid.

About the Program

FSCJ bachelor's degree programs are part of Florida's 2+2 Program. Learn more at floridashines.org/2-2-program.

Credit Hours: 120 total credit hours, including 60 transferrable college credit hours that are completed prior to applying to the program. Total hours may vary based on individual academic plan. Prior to enrolling in classes, please meet with an advisor for specific guidance about your individual academic plan.

Application Procedure

Applicants interested in the Biomedical Sciences B.S. degree must satisfy the bachelor's degree general admission requirements. The Biomedical Sciences B.S. degree has rolling admissions throughout the term; a bachelor's degree admissions application may be submitted at any time throughout the term.

The below criteria must be met to be considered for admission to the B.S. in Biomedical Sciences Program:

- ☐ While working toward the general education requirements for the associate degree, all students must complete the below prerequisite courses with grades of C or higher prior to starting upper division coursework.
- ☐ Baccalaureate degree programs are Selective Access.
- ☐ Applicants should develop an educational plan with a program advisor to complete the necessary steps to be considered for acceptance into the bachelor's program of their choice. An evaluation to determine what additional coursework may be needed in order to meet the prerequisite requirements for the bachelor's degree.

For additional information please consult with an advisor at any campus.

Minimum Grade Requirement(s)

A minimum grade of C or higher is required in:

- ☐ All Prerequisite coursework
- ☐ All Upper Division coursework
- ☐ All Upper Division Concentration coursework
- ☐ All General Education coursework

Available Upper Division Concentration Coursework

Minimum credit hours: 16. Students must select from one of the following concentrations.

Biomedical

- ISC 4930 – Special Topics in Biomedical Sciences, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- ISC 4934 – Biomedical Science Program Analysis, Credit Hours: 1. Terms Offered: Fall, Spring, Summer.
- MCB 4203 – Pathogenic Microbiology, Credit Hours: 3. Terms Offered: Fall, Spring.
- MCB 4404 – Microbial Physiology and Genetics, Credit Hours: 3. Terms Offered: Fall, Spring.
- MCB 4503 – Virology, Credit Hours: 3. Terms Offered: Summer.
- PCB 3713C – General Physiology, Credit Hours: 4. Terms Offered: Spring.
- **or** ZOO 3713C – Comparative Vertebrate Anatomy, Credit Hours: 4. Terms Offered: Summer.

Education

- EDG 4410 – Classroom and Behavior Management, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- EDG 4930 – Instructional Strategies for Varying Student Populations, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- EEC 4301 – Cognitive, Psychosocial and Physical Development, Birth through Adolescence, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- EEX 4231 – Assessments and Strategies for Students with Special Needs, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
- ISC 4934 – Biomedical Science Program Analysis, Credit Hours: 1. Terms Offered: Fall, Spring, Summer.
- TSL 3081 – Teaching English Language Learners, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.

Stay on Track

Meet the bachelor's degree graduation requirements:

- ☐ Fulfill all academic requirements for the chosen program of study as outlined in the Florida State College at Jacksonville catalog and curriculum.
- ☐ Earn minimum prescribed semester hours for the selected bachelor's degree with at least a 2.0 (C) on a 4.0 scale for an all-college cumulative grade point average. This includes Florida State College at Jacksonville college-credit semester hours and transferred credits (excluding developmental education) in lower- and upper-division courses.
- ☐ Earn at least a C in each course used to satisfy the General Education Requirements and any other area designated with a C or higher in each course.
- ☐ Earn a minimum of 25 percent of all credits used to satisfy the baccalaureate degree course requirements from Florida State College at Jacksonville (for example, a minimum of 30 credits for a 120-credit bachelor's degree). Credit by examination and credit for prior learning do not count toward this residency requirement.
- ☐ Fulfill the 36-college credit Florida General Education Requirements (note: 45 semester hours of required General Education for the B.S.N. degree and 51 semester hours of required General Education for the Bachelor of Science in Biomedical Sciences degree), including the required core course options as listed in s. 1007.25(3), Florida Statute, and State Board Rule 6A.14.0303, Florida Administrative Code.
- ☐ Demonstrate competency in civic literacy in accordance with s. 1007.25, Florida Statutes, and State Board of Education Rule 6A-10.02413, Florida Administrative Code. Per guidelines established by Senate Bill 1108, competency is demonstrated by
 - ☐ Completing one of three civic literacy courses (AMH 2010, AMH 2020 or POS 2041) with a grade of C or higher, AND
 - ☐ Achieving a passing score on a state-approved assessment.
- ☐ Fulfill the Foreign Language requirement.
- ☐ Fulfill all obligations, financial or otherwise, to the College before graduation.

More Information Online

Program Webpage: fscj.edu/program?pcode=T300

Program Catalog Page: catalog.fscj.edu/programs/T300

Prerequisite Coursework

Note: Students must either test into MAC 2311 and CHM 2045C or take the course sequences that are prerequisites to these courses.

Course	Credits	Course Type	Terms Offered
MAC 2311 – Calculus With Analytic Geometry I	4	General Education	Fall, Spring, Summer
BSC 2010C – Principles of Biology I	4	General Education	Fall, Spring, Summer
BSC 2011C – Principles of Biology II	4	General Education	Fall, Spring, Summer
CHM 2045C – General Chemistry and Qualitative Analysis I	4	General Education	Fall, Spring, Summer
CHM 2046C – General Chemistry and Qualitative Analysis II	4	General Education	Fall, Spring, Summer

General Education Coursework

Students may have completed some of the following courses before applying to the program.

Course	Credits	Terms Offered
ENC 1101 – English Composition I or ENC 1101C – English Composition I Enhanced	3-4	Fall, Spring, Summer
ENC 1102 – Writing About Texts	3	Fall, Spring, Summer
SPC 2017 – Introduction to Speech Communications or SPC 2065 – Speech Communication for Business and the Professions or SPC 2608 – Fundamentals of Public Speaking	3	Fall, Spring, Summer
Humanities State Core course	3	Fall, Spring, Summer
Humanities State Core course	3	Fall, Spring, Summer
Social and Behavioral Sciences: Civic Literacy course	3	Fall, Spring, Summer
Social and Behavioral Sciences course	3	Fall, Spring, Summer
Social and Behavioral Sciences course	3	Fall, Spring, Summer

Sample Roadmap for Lower Division and Upper Division Coursework (Admitted Students)

Term 1

Course	Credits	Course Type	Terms Offered
CHM 2210C – Organic Chemistry I	4	Upper Division	Fall, Spring, Summer
PHY 2053C – General Physics I	4	General Education	Fall, Spring, Summer
BSC 2093C – Human Anatomy and Physiology I for Biomedical Sciences Majors	4	Upper Division	Spring

Term 2

Course	Credits	Course Type	Terms Offered
CHM 2211C – Organic Chemistry II	4	Professional	Fall, Spring, Summer
BSC 2094C – Human Anatomy and Physiology II for Biomedical Sciences Majors	4	Upper Division	Fall, Spring, Summer
BSC 1421C – Introduction to Biotechnology Methods	4	Upper Division	Fall, Spring, Summer

Term 3

Note: Students who choose STA 2023 must either test into STA 2023 or earn a C or higher in MAT 1033.

Course	Credits	Course Type	Terms Offered
MCB 3020C – Basic Biology of Microorganisms	4	Upper Division	Fall, Spring, Summer
PCB 3103C – Cell Biology	4	Upper Division	Fall, Spring, Summer
STA 2023 – Elementary Statistics or MAC 2312 – Calculus With Analytic Geometry II	3-4	General Education	Fall, Spring, Summer
Upper Division Concentration course(s)	3-4	Upper Division Concentration	Varies

Term 4

Course	Credits	Course Type	Terms Offered
PCB 3513C – Genetics and Molecular Biology	4	Upper Division	Fall, Spring, Summer
CHM 3120C – Elementary Analytical Chemistry	4	Upper Division	Fall, Spring, Summer
HSC 2732 – Research Methods and Applications	4	Upper Division	Fall, Spring, Summer
Upper Division Concentration course(s)	3-4	Upper Division Concentration	Varies

Term 5

Course	Credits	Course Type	Terms Offered
HSC 4730 – Health Science Research	4	Upper Division	Fall, Spring, Summer
CHM 3130C – Chemistry Instrumentation	4	Upper Division	Fall, Spring, Summer
Upper Division Concentration course(s)	3-4	Upper Division Concentration	Varies
Upper Division Concentration course(s)	3-4	Upper Division Concentration	Varies

Term 6

Course	Credits	Course Type	Terms Offered
IDS 4936 – Biomedical Sciences Degree Capstone	4	Upper Division	Fall, Spring, Summer
BCH 4024 – Introduction to Biochemistry	4	Upper Division	Fall, Spring, Summer
Upper Division Concentration course(s)	3-4	Upper Division Concentration	Varies