

BIOTECHNOLOGY, A.S. (62 Credits)

Meta-major: STEM

The **Biotechnology A.S.** articulation agreement between Florida Gateway College (FGC) and Santa Fe College (SF) provides a pathway for students to take general education and prerequisite coursework with FGC and transfer to earn their associate in science degree in Biotechnology with SF.

For more information about the general education coursework, visit www.fgc.edu and your academic advisor.

For more information regarding the associate in science program, visit the [Biotechnology SF](#) and [Perry Center](#) page.

This pathway presents classes needed to earn general education and prerequisite credit with FGC and your associate in science degree in **Biotechnology** with SF. It does not represent a contract, nor does it guarantee course availability or entry into the program. As always, visit your academic advisor each semester to help you keep on track for graduation.

**Articulation Agreement****SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS**

SEMESTER 1 AT FGC	ACTION ITEMS
ENC 1101 – Freshman Composition I ⁱⁱ (<i>Communication core</i>)	<ul style="list-style-type: none"> Meet with your advisor to confirm academic and career goals by the end of the semester. Signup for and pass the Florida Civic Literacy Exam. At the end of the semester, begin research on college and universities where you want to seek to transfer. Meet with a career advisor/coach to research your career options with a degree in Biotechnology. Begin applying for Financial Aid and Scholarships <ul style="list-style-type: none"> You can start the FAFSA in October for the next academic year. (<i>i.e., in October 2023, you can complete the FAFSA for if you plan to register for classes at a college or university Fall 2024</i>)
Choose one: AMH 2020 – US History from 1865 OR POS 1041 – American Government ⁱⁱ (<i>Social Science core & civic literacy</i>)	
MAC 1105 – College Algebra ⁱⁱ (<i>Mathematics core</i>)	
Choose one: BSC 2010C – General Biology I with Lab OR CHM 2045/L – General Chemistry I/Lab (<i>Science Core/Prerequisite</i>) (4 cr)	
TOTAL SEMESTER CREDIT HOURS: 13	
SEMESTER 2 AT FGC	ACTION ITEMS
STA 2023 – Elementary Statistics ⁱⁱ (<i>Elective Prerequisite</i>)	<ul style="list-style-type: none"> Meet with your advisor to confirm or update your academic/career pathway and program of study. Meet with your advisor about transfer to SF Biotechnology program Request final transcripts sent to SF.
Choose one: ARH 1000 – Art Appreciation OR HUM 2020 – Introduction to Humanities OR LIT 2000 – Introduction to Literature OR MUL 1010 – Music Appreciation OR PHI 2010 – Introduction to Philosophy OR THE 2000 – Theatre Appreciation ⁱⁱ (<i>Humanities core</i>)	
MCB 2010/L – Microbiology/Lab (<i>Elective Prerequisite</i>) (4 cr)	
TOTAL SEMESTER CREDIT HOURS: 10	
FGC PATHWAY TOTAL: 23 CREDIT HOURS	

SEMESTER 1 AT SF	ACTION ITEMS
BSC 1421/L – Intro to Biotech/Lab (4 cr)	<ul style="list-style-type: none"> Meet with your SF advisor to confirm or update your academic/career pathway and program of study.
CHM 2124C – Quantitative Chemistry	
ETI 2160C – Metrology	
TOTAL SEMESTER CREDIT HOURS: 10	
SEMESTER 2 AT SF	ACTION ITEMS
BSC 2426C – Methods 1	
ETI 2170 – QA and Regulatory	
ETI 2411/L – Manufacturing (3-D printing)/Lab (4 cr)	
TOTAL SEMESTER CREDIT HOURS: 10	

SEMESTER 3 AT SF	ACTION ITEMS
BSC 2427C - Methods 2	
BSC 2423C - Proteins	
BSC 2435 - Bioinformatics (1 cr)	
BSC 2847 - Scientific Communication for Biotechnology (2 cr)	
TOTAL SEMESTER CREDIT HOURS: 9	
SEMESTER 4 AT SF	ACTION ITEMS
BSC 2416C - Cell Culture	<ul style="list-style-type: none"> • Check with advisor regarding graduation eligibility. <ul style="list-style-type: none"> ○ Sign up for commencement. • Congratulations, SF B.A.S. graduate!
MLT 2191/L - Histology/Lab (4 cr)	
BSC 2943 - Biotechnology Internship	
TOTAL SEMESTER CREDIT HOURS: 10	
TOTAL AT SF: 39 CREDIT HOURS	
A.S. PATHWAY TOTAL: 62 CREDIT HOURS	

ⁱ Degree plans may change in later catalogs. You may use this pathway if you entered the college on or before this date.

ⁱⁱ You must earn a grade of "C" or better in all Gordon Rule classes.