

BIOLOGY-ACCELERATED (B.S.)

The Bachelor of Science (B.S.) in Biology - Accelerated program offers an exciting opportunity to FGCU students who desire careers in medicine or pharmacy. FGCU offers pathways to the following medical education programs through agreements with the Lake Erie College of Osteopathic Medicine (LECOM).

- Doctor of Osteopathic Medicine (D.O.)
- Doctor of Pharmacy (Pharm.D.)

Students in the D.O. and Pharm.D. programs fulfill requirements as set forth by FGCU and LECOM for the first three years (90 credits) of the baccalaureate program. At the end of the third year of study at FGCU, students who meet progression requirements are eligible to enter LECOM for the first year of osteopathic medicine or pharmacy study. Upon successful completion of the first year at LECOM, FGCU accepts in transfer 30 credits from LECOM. These credits are then applied toward completion of the baccalaureate degree from FGCU. Students then continue with their medical education at LECOM.

Program Admission Requirements

- Submit an FGCU Undergraduate Admission Application and satisfy all applicable university admission requirements
- Submit a LECOM Early Acceptance Program (EAP) Application and satisfy all applicable LECOM EAP admission requirements
- Attend an orientation session
- Receive a Provisional Letter of Acceptance document from LECOM stating the requirements for progression in the EAP

Program Progression and Additional Graduation Requirements

Progression in the Biology-Accelerated major requires a provisional letter of acceptance (i.e., a reserved seat) to one of LECOM's professional schools no later than the start of the third (junior) year at FGCU. Upon matriculation at LECOM, a student must maintain satisfactory academic progress. Students must provide FGCU with an official LECOM transcript demonstrating successful completion of the first year (30 credits) of the LECOM osteopathic medicine or pharmacy curriculums. Contact Dr. Kerry J. Lee for additional information about LECOM progression and graduation requirements.

For timely degree completion, students must complete all program milestones. The following actions occur when milestones are missed: first occurrence—advising hold and counseling regarding progression requirements; second occurrence—counseling and change to a major outside of the Department of Biology or Department of Chemistry and Physics that is more appropriate to student goals and academic performance. Appeals are handled through the relevant department. The decision of the appeal committee is final. Program milestones include the following:

- BSC 1010C General Biology with Lab I or BSC 1011 General Biology II/BSC 1011L General Biology II Laboratory minimum grade of C completed one calendar year from admission as first time in college (FTIC) or 30 credits earned, whichever is earlier.
- BSC 1010C General Biology with Lab I and BSC 1011 General Biology II/BSC 1011L General Biology II Laboratory minimum grade of C

- completed by end of fourth semester (including summers) from admission as FTIC or 45 credits earned, whichever is earlier.
- PCB 3023C Cell Biology PCB 3043C General Ecology or PCB 3063C Genetics minimum grade of C completed by end of sixth semester (including summers) from admission as FTIC or 60 credits earned, whichever is earlier.

Transfer students may declare the major after they have completed BSC 1010C General Biology with Lab I, BSC 1011 General Biology II, and BSC 1011L General Biology II Laboratory with grades of C or better in each course. Transfer students must complete PCB 3023C Cell Biology, PCB 3043C General Ecology or PCB 3063C Genetics with a grade of C or better within three semesters (including summer) of declaring the major.

In addition to the program requirements, students must:

- Complete a minimum of 120 credits.
- Complete a minimum of 48 of the 120 credits at the upper division (3000 - 4999 level).
- Earn a cumulative GPA of 2.0 for all coursework attempted at FGCU.
- Satisfy the College-Level Skills and foreign language entrance requirements.
- Satisfy the Service-Learning requirement.
- Satisfy the Civic Literacy Requirement.
- Satisfy the residency requirement: 30 of the last 60 credits must be completed at FGCU.
- Complete the summer course enrollment requirement.
- Submit an Application for Graduation by the deadline listed in the FGCU Academic Calendar.

Program Requirements

Code	Title	Credits
FGCU General Education Program (https://www.fgcu.edu/academics/undergraduestudies/generaleducation/)		
To prevent or minimize excess hours, select general education courses that satisfy common prerequisite requirements for your intended major.		
Common Prerequisites		
For this major, common prerequisite courses with an asterisk (*) require prior knowledge and skills demonstrated through degree acceleration programs (e.g., the College Board's Advanced Placement Program ^{AP} , International Baccalaureate Program ^{IB} , College-Level Examination Program ^{CLEP} , Advanced International Certificate of Education Program ^{AICE}); dual enrollment; placement exam; or college coursework.		
A minimum grade of C is required in each course		
BSC 1010C	General Biology with Lab I (Acceptable Substitute: (BSCX010 and BSCX010L) or BSCX010C or BSCX040C)	4
BSC 1011 & 1011L	General Biology II and General Biology II Laboratory (Acceptable Substitute: (BSCX011 and BSCX011L) or BSCX011C or BSCX041C)	4
CHM 1045 & 1045L	General Chemistry I and General Chemistry I Laboratory (Acceptable Substitute: (CHMX045 and CHMX045L) or CHM045C or (CHMX040 and CHMX041)) ^{*,1}	4

CHM 1046 & 1046L	General Chemistry II and General Chemistry II Lab (Acceptable Substitute: (CHMX046 and CHMX046L) or CHMX046C)	4	Total Credits Required: 120
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CHM 2210 & 2210L	Organic Chemistry I and Organic Chemistry I Laboratory (Acceptable Substitute: (CHMX210 and CHMX210L) or CHMX210C or (PHYX053 and PHYX053L) or (PHYX048 and PHYX048L))	4
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CHM 2211 & 2211L	Organic Chemistry II and Organic Chemistry II Laboratory (Acceptable Substitute: (CHMX211 and CHMX211L) or CHMX211C or (PHYX054 and PHYX054L) or (PHYX049 and PHYX049L))	4
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MAC 2311	Calculus I (Acceptable Substitute: MACX311 or MACX233 or MACX253 or MACX281 or MACX241) *, 2	4
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MAC 2312	Calculus II (Acceptable Substitute: MACX312 or MACX282 or MACX234 or STAX023 or STAX024 or STAX321)	4
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Required Courses in the Major	(57 credits)
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A minimum grade of C is required in each course

BCH 3023C	Biochemistry	3
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BSC 1930L	Seminar in Medicine I ³	1
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BSC 4910C	Senior Project I: Research (capstone)	2
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BSC 4911	Sr Project II: Presentation (capstone)	1
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MCB 3020C	General Microbiology	4
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PCB 3063C	Genetics	4
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PCB 3703C	Human Physiology	4
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PHY 2048 & 2048L	General Physics I and General Physics I Laboratory ⁴	4
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PHY 2049 & 2049L	General Physics II and General Physics II Laboratory ⁴	4
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Plus satisfactory completion of the first year of medical or pharmacy school at LECOM.

Sustainability Course Graduation Requirement	(3 credits)
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Select at least 3 credits in sustainability coursework (SCGR Attribute)

Additional Electives

As needed to reach total credits required for the degree

¹ Prerequisites of MAT 1033 Intermediate Algebra minimum grade of C then MAC 1105 College Algebra minimum grade of C; or relevant accelerated credit; or placement exam

² Prerequisites of MAT 1033 Intermediate Algebra minimum grade of C then MAC 1105 College Algebra minimum grade of C then MAC 1147 Precalculus minimum grade of C; or relevant accelerated credit; or placement exam

³ BSC 2930L Seminar in Medicine II and BSC 3930L Seminar in Medicine III are strongly recommended as electives.

⁴ If PHY 2048C and PHY 2049C or PHY 2053C and PHY 2054C were completed as common prerequisites, CHM 2210C and CHM 2211C must be taken to fulfill the core requirements; conversely, if CHM 2210C and CHM 2211C were taken to fulfill common prerequisites, PHY 2048C and PHY 2049C or PHY 2053C and PHY 2054C must be completed.