



SECONDARY BIOLOGY, BACHELOR OF SCIENCE

Program Code: S300

Career Pathway: Education

Location(s): Courses for this program are offered at all Broward College locations. (<https://www.broward.edu/about/locations/>) Please consult the course schedule for specific semester locations.

Program Entrance Requirements: Admission to Broward College does not constitute admission to the Teacher Education Program (TEP). Students must meet all Teacher Education Program admission requirements prior to being accepted into the program.

Requirements for admission to the Teacher Education Program include the following:

- Completion of an Associate of Arts degree from a regionally-accredited institution or at least 60 semester credit hours of post-secondary education from a regionally-accredited college or university with 36 credit hours of general education coursework.
- A cumulative grade point average of 2.5 on a 4.0 scale for the general education component of undergraduate studies.
- A passing score on any one of the four (English, Essay, Mathematics, Reading) subtests of the General Knowledge Exam.
 - Students admitted to the program will be required to take and pass the remaining three sections of the General Knowledge Exam by the completion of their 15th credit.
 - To register for the General Knowledge Exam visit: www.fl.nesinc.com (<http://www.fl.nesinc.com>).
- Applicants must be in good academic standing at the last institution they attended.
- Broward College must have on file an official, complete transcript from each postsecondary institution attended, cumulatively indicating completion of 60 or more transferable credits by the applicant's entry term. Prior Broward College students do not need to submit Broward College transcripts, only transcripts from any other institutions attended.
- Completion of all general education requirements and lower division state mandated common prerequisites, including the following three common education prerequisites, in which students must have earned a grade of "C" or better:
 - EDF1005 INTRODUCTION TO THE TEACHING PROFESSION
 - EDF2085 INTRO TO DIVERSITY & EXCEPTIONALITIES FOR EDU
 - EME2040 INTRODUCTION TO EDUCATIONAL TECHNOLOGY
- Submission of a letter of recommendation from one person who knows the applicant personally, educationally, and/or professionally.
- Approval from the Teacher Education Program Admission Committee

Program Description: The Bachelor of Science in Education for Secondary Biology Education is designed to qualify its graduates to teach biology in grades 6-12. Admission to Broward College does not constitute admission to the Teacher Education programs; a supplemental application is also required. Students must meet all Teacher Education Program admission requirements before acceptance into the program. In addition to the required coursework, students must pass the Florida Teacher Certification Exams.

The Bachelor of Science in Education uses a 2+2 model requiring the completion of an Associate of Arts Degree, or at least 60 semester credit hours of postsecondary education from a regionally accredited college or university for entry into the program; these must include 36 hours of General Education Core Requirements. Visit the program's website (<http://www.broward.edu/education/>) for more information or call 954-201-2500.

B.S. Ed Secondary Biology Education Components

Component	Credits
Lower Division Coursework in semester credit hours	60
Associate Degree Program of Study Program Electives ¹	24
General Education Core Requirements Credits: Communication (9), Math (6) Humanities (6) Social Behavioral Science (6) Science (6) Science Lab (1), Wellness (2)	36
Digital Literacy Requirement: Students are required to have passed the Computer Competency exam ²	
Foreign Language Requirement: Students are required to have two-years of sequential foreign language studies from high school or eight semester credit hours from college prior to graduation of Bachelor of Science degree.	
Upper Division Coursework in semester credit hours	60
Total	120

¹ To include EDF1005 INTRODUCTION TO THE TEACHING PROFESSION

² or completed CGS1060C COMPUTER AND INTERNET LITERACY or equivalent course.

Note: Students in the Secondary Biology Program must include the following science courses within their lower division educational plan:

Course	Title	Credits
EDF1005	INTRODUCTION TO THE TEACHING PROFESSION	3.00
CHM1045	GENERAL CHEMISTRY 1	3.00
CHM1045L	GENERAL CHEMISTRY I LAB	1.00
CHM1046	GENERAL CHEMISTRY II	3.00
CHM1046L	GENERAL CHEMISTRY II LAB	1.00
BSC2010	INTRODUCTION TO BIOLOGY I	3.00
BSC2010L	INTRODUCTION TO BIOLOGY I LABORATORY	1.00
BSC2011	INTRODUCTION TO BIOLOGY II	3.00
BSC2011L	INTRODUCTION TO BIOLOGY II LABORATORY	1.00
Course	Title	Credits
EDF3280	INSTRUCTIONAL STRATEGIES (required first semester course)	3.00
EEX3011	INTRODUCTION TO EXCEPTIONAL STUDENT EDUCATION	3.00
RED3342	FOUND OF RESEARCH PRAC. IN READ ED & APP. OF INST. (co-requisite course)	3.00
TSL3080	ESOL ISSUES AND STRATEGIES I (co-requisite course)	3.00
PCB3063	GENETICS	3.00
CHM3203	ORGANIC & BIOCHEMISTRY	3.00
CHM3203L	ORGANIC & BIOCHEMISTRY LAB	1.00
PCB4043	INTRODUCTION TO ECOLOGY	3.00
SCE4330	METHODS AND STRATEGIES OF TEACHING BIOLOGICAL SCIENCE	3.00
EDF4430	EDUCATIONAL TESTS AND MEASUREMENTS	3.00
ZOO4713	COMPARATIVE VERTEBRATE ANATOMY & PHYSIOLOGY	3.00
ZOO4713L	COMPARATIVE VERTEBRATE MORPHOLOGY AND PHYSIOLOGY LAB	1.00
EDP4004	PRINCIPLES OF EDUCATIONAL PSYCHOLOGY	3.00
EME3410	ENHANCING MATHEMATICS AND SCIENCE EDUCATION WITH TECHNOLOGY APPLICATIONS	3.00
EDG4410	CLASSROOM MANAGEMENT	3.00
MCB3020	GENERAL MICROBIOLOGY	3.00
MCB3020L	GENERAL MICROBIOLOGY LAB	1.00
SCE3941	TEACHING MIDDLE AND SECONDARY SCHOOL SCIENCES PRACTICUM	3.00
SCE4944	STUDENT TEACHING IN BIOLOGICAL SCIENCES	12.00
Total Credits		60

Notes:

***EEX4843 TEACHING EXCEPTIONAL LEARNERS PRACTICUM, RED4844 READING PRACTICUM, and TSL4081 ESOL ISSUES AND STRATEGIES II are co-requisite courses.

Students must satisfy the Digital Literacy requirement by testing out, completing a Credit for Prior Learning portfolio, or passing CGS1060C COMPUTER AND INTERNET LITERACY.

In accordance with Florida Statute and Florida Administrative Code, students may need to satisfy the Civic Literacy Graduation Requirement. Visit the Civic Literacy Graduation Requirement page at broward.edu/civic-literacy (<https://students.broward.edu/resources/civic-literacy/>).

Students are strongly encouraged to meet with an advisor (<https://students.broward.edu/resources/advising/>) to create a personalized educational plan.

Program Highlights

Credit for Prior Learning

Accelerate your path to completion with these options:

- Credit by exam
- Earned industry certifications

- Prior Learning Assessment
- And much more...

Related Industry Certifications

Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses:

- Florida Teaching Certification: Requires a passing score of Subject Area and Professional Education exams of the Florida Teacher Certification Examinations (FTCE)

Get an Internship

After completing your first year of coursework make sure to visit Employment Solutions (<https://broward.edu/career/>) for internship opportunities and helpful tools like virtual job shadow, to help take your career to the next level!

- Get an Internship (<http://broward.edu/studentresources/career/Pages/Find-a-job-or-internship.aspx>)
- Virtual Job Shadow Tool (<http://www.broward.edu/studentresources/career/Pages/default.aspx>)

Median Wage and Job Growth Outlook

Broward College has Career Coach (<https://www.broward.edu/careercoach/>)! It is designed to help you find a good career by providing the most current local data on wages, employment, job postings, and associated education and training.

Fund Your Education

This program is Financial Aid (<https://www.broward.edu/admissions/financial-aid/>) eligible. Scholarships (<https://www.broward.edu/admissions/financial-aid/scholarships/>) may be available.

Program Learning Outcomes

Graduates from this program will:

- Create and deliver inquiry-based lessons that allow learners to develop understanding of scientific methods, concepts, and safety practices.
- Demonstrate the ability to work with biology students and apply appropriate individualized instruction and other competencies based on the state standards.
- Apply professional teacher competencies set forth by FEAPs and Marzano.