

UCF Degree Programs

Secondary Education - Science Education Biology Track (B.S.)

College of Education and Human Performance
School of Teaching, Learning, and Leadership,
Education Building, Room: 209
<http://education.ucf.edu/science/>

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The Secondary Education B.S.- Science Education Biology program offers students the option of two tracks: Science Education- Biology Track and Science Education - Biology Lifelong Learning Track (non-certification). The Education Track is appropriate for students interested in opportunities for employment with formal 6-12 schools that require certification. The Lifelong Learning Track is appropriate for students seeking opportunities for employment outside of formal K-12 schools that do not require certification.

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from a Florida College System or State University System institution.
- Complete the EDF 2005 Introduction to Teaching Profession, EDF 2085 Introduction to Diversity for Educators and EME 2040 Introduction to Technology for Educators courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement
- Meet Foreign Language Admission Requirement.
- Have a minimum 2.5 overall GPA
- Education Track: Pass all four parts of the General Knowledge Test (no alternatives or waivers are accepted). The Lifelong Learning Track is a non-certification program and does not require the General Knowledge Test.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- The Education Track is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (GEP) (38 hrs)

- Note: Students are advised to take the preferred courses.

A: Communication Foundations (9 hrs)

Required	ENC 1101	Composition I	3 hrs
Required	ENC 1102	Composition II	3 hrs
Prefer	SPC 1608	Fundamentals of Oral Communication	3 hrs

B: Cultural & Historical Foundations (9 hrs)

General Education Program elective from section B1 to meet Gordon Rule Requirement 3 hrs

Select 1:

Prefer	MUL 2010	Enjoyment of Music or	3 hrs
Prefer	THE 2000	Theatre Survey or	3 hrs
Prefer	PHI 2010	Introduction to Philosophy	3 hrs
General Education Program elective: Prefer a second course from GEP section B1			3 hrs

C: Mathematical Foundations (7 hrs)

Required	MAC 2311C	Calculus with Analytic Geometry I	4 hrs
Prefer	STA 2014C	Principles of Statistics	3 hrs

D: Social Foundations (6 hrs)

Prefer	POS 2041	American National Government	3 hrs
Prefer	PSY 2012	General Psychology	3 hrs

E: Science Foundations (7 hrs)

¹ Required	PSC 1121	Physical Science	3 hrs
¹ Required	BSC 2010C	Biology I	4 hrs

¹ A grade of "C-"(1.75) is required.

2. Common Program Prerequisites (CPP) (15 hrs)

- See "Common Prerequisites" in the Transfer and Transitions Services section for more information.
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|-----------|---|-------|
| EDF 2005 | Introduction to the Teaching Profession | 3 hrs |
| BSC 2010C | Biology I | GEP |
| MAC 2311C | Calculus with Analytic Geometry I | GEP |
| BSC 2011C | Biology II | 4 hrs |
| CHM 2045C | Chemistry Fundamentals I | 4 hrs |
| CHM 2046 | Chemistry Fundamentals II | 3 hrs |
| CHM 2046L | Chemistry Fundamentals Laboratory | 1 hr |

3. Core Requirements: Basic Level (9 hrs)

- Education Track requires 9 semester hours
- Lifelong Learning Track requires 12 semester hours
- Transfer Notes: Courses taken at Florida College System institutions may substitute for select courses in this section with the permission of the department.
- Students should consult with advisor regarding course options

¹ EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs
BSC 2010C	Biology I	GEP
BSC 2011C	Biology II	CPP
CHM 2045C	Chemistry Fundamentals I	CPP
PSC 1121	Physical Science	GEP

Education Track (3 hrs)

EDF 2130	Child and Adolescent Development for Educators	3 hrs
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Lifelong Learning Track (6 hrs)

MHS 2330	Career Planning	3 hrs
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Select 1:

EDF 2130	Child and Adolescent Development for Educators or	3 hrs
EDP 2270	Adult Development & Learning	3 hrs

¹ In addition to this course, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement

4. Core Requirements: Advanced Level (55 hrs)

- Education Track requires 58 semester hours
 - Lifelong Learning Track requires 55 semester hours
- #### Education Core Requirements (18 hrs)
- Education Track requires 18 semester hours of Education Core Requirements
 - Lifelong Learning Track requires 21 semester hours of Education Core Requirements

EDF 4467	Learning Theory and Assessment	3 hrs
EDF 4603	Analysis and Application of Ethical, Legal, and Safety Issues in Schools	3 hrs
¹ EDG 4410	Teaching Strategies and Classroom Management	3 hrs
EEX 4242	Teaching Exceptional Students in Secondary Settings	3 hrs
RED 4043	Content Reading in Kindergarten through Grade 12	3 hrs
¹ TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs

Lifelong Learning Track

SCE 4361	Programs in Teaching Science	3 hrs
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¹ Prerequisite to Internship I

Education Track Specialization Requirements (21 hrs)

CHM 2205	Introduction to Organic and Biochemistry	5 hrs
CHM 2046	Chemistry Fundamentals II	CPP
CHM 2046L	Chemistry Fundamentals Laboratory	CPP

UCF Degree Programs

PCB 3044	Principles of Ecology	3 hrs
PCB 3044L	Principles of Ecology Laboratory	1 hr
MCB 3020C	General Microbiology	5 hrs
SCE 4361	Programs in Teaching Science	3 hrs

Select 1: 4 hrs

PCB 3703C	Human Physiology or	4 hrs
ZOO 3733C	Human Anatomy or	4 hrs
PCB 3063	Genetics & PCB 3063L Genetics Lab	4 hrs

Internship I Block 7 hrs

■ Program Internship I Prerequisites: EDG 4410, TSL 4080, all Common Program Prerequisites, all Core Requirements: Basic Level, and at least 50% of all required biology courses must be completed prior to Internship I with a minimum grade of a "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

■ Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is required before application to Internship I.

■ Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

■ Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at

<http://www.education.ucf.edu/clinicalexp/>

SCE 4360	Science Instructional Analysis	4 hrs
SCE 3940	Internship	3 hrs

Internship II Block 12 hrs

■ At least 80% of all required biology courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization, and overall for admission to Internship II.

■ Passing scores on all sections [General Knowledge, Professional, and Subject Area (Biology 6-12)] of the Florida Teacher Certification Examination (FTCE) are required prior to entry into Internship II.

■ Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at

<http://www.education.ucf.edu/clinicalexp/>

■ Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.066.

SCE 4941	Internship	9 hrs
ESE 4033C	Critical Issues and Trends in Secondary Education	3 hrs

Lifelong Learning Track Specialization Requirements 34 hrs

■ Select preferred specialization courses with advisor approval. A minimum of nine (9) hours must be taken in the content area. Substitutions are allowed with advisor approval.

■ A grade of "C-"(1.75) or better is required.

■ Must have a total of 48 or more hours of upper level courses to graduate.

PCB 3044	Principles of Ecology	3 hrs
PCB 3044L	Principles of Ecology Laboratory	1 hr
MCB 3020C	General Microbiology	5 hrs
PCB 3703C	Human Physiology	4 hrs
ZOO 3733C	Human Anatomy	4 hrs
PCB 3063	Genetics	3 hrs
PCB 3063L	Genetics Laboratory	1 hr

EDG 4941	Directed Field Experience	1 hr
EDG 4948	Service Learning	3 hrs
DIG 3525	Digital Media Production I	3 hrs
DIG 2000	Introduction to Digital Media	3 hrs
DIG 2030	Digital Video Fundamentals	3 hrs
DIG 2109	Digital Imaging Fundamentals	3 hrs
DIG 2500	Fundamentals of Interactive Design	3 hrs
DIG 3811	User-Centered Design	3 hrs
DEP 2004	Developmental Psychology	3 hrs
DEP 3202	Psychology of Exceptional Children	3 hrs
DEP 3464	Psychology of Aging	3 hrs
EXP 3604	Cognitive Psychology	4 hrs
EXP 3250	Principles of Human Factors Psychology	3 hrs
EAB 3703	Principles of Behavior Modification	3 hrs
MAN 3025	Management of Organizations	3 hrs
MAN 4101	Human Relations in Management	3 hrs
MAR 3023	Marketing	3 hrs
HFT 1000	Introduction to the Hospitality and Tourism Industry	3 hrs
HFT 2750	The Event Industry	3 hrs
ECT 4184	Curriculum Development Techniques for Industry Training	3 hrs
HFT 3798	Fairs and Festivals	3 hrs
HFT 4754	Exhibit and Trade Show Operations	3 hrs
SCE 4360	Science Instructional Analysis	4 hrs

5. Restricted Electives

■ None

6. Capstone Requirements

■ None

7. Foreign Language Requirements

Admissions

■ State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

Graduation

■ None

8. Electives

■ None

9. Additional Requirements

■ None

10. Required Minors

■ None

11. Departmental Exit Requirements

■ Achieve a minimum 2.5 GPA in all courses within the major.

■ In courses throughout the program, you must upload key assignments into your LiveText Dashboard. These key assignments are then assessed by faculty. The resulting data provides evidence of your demonstrated professional growth, reflection, and proficiency in all Florida Educator Accomplished Practices. All teacher education candidates, lifelong learning majors and early childhood and development and education majors (all ECDE tracks) are required to complete all LiveText requirements in order to be cleared for graduation. <http://livetext.education.ucf.edu/>

Education Track

■ Pass all applicable sections of the Florida Teacher Certification Examination. See <http://www.fldoe.org> for test dates and test sites. Effective January 1, 2015, only examination results earned by educators within 10 years prior to the date of application for a new Florida Educator's Certificate with the Florida Department of Education may be acceptable for certification eligibility requirements (SBE Rule 6A-4.002)

12. University Minimum Exit Requirements

■ A 2.0 UCF GPA

■ 60 semester hours earned after CLEP awarded

■ 48 semester hours of upper division credit completed

■ 30 of the last 39 hours of course work must be completed in residency at UCF.

■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

UCF Degree Programs

■ Complete the General Education Program, the Gordon Rule, and nine hours of Summer credit.

Total Semester Hours Required

■ 120

Honors In Major

■ None

Related Programs

■ None

Certificates

■ None

Related Minors

■ None

Advising Notes

■ None

Transfer Notes

■ None

Acceptable Substitutes for Transfer Courses

■ None

Plan of Study (120 hrs)

■ Recommended Four Year Sequence of Courses

Freshman Year - Fall 12 hrs

GEP B1 Elective		3 hrs
ENC 1101	Composition I	3 hrs
PSY 2012	General Psychology	3 hrs
STA 2014C	Principles of Statistics	3 hrs

Freshman Year - Spring 15 hrs

GEP B3 Elective (Prefer course from section B1)		3 hrs
ENC 1102	Composition II	3 hrs
PSC 1121	Physical Science	3 hrs
SPC 1608	Fundamentals of Oral Communication	3 hrs

Select 1:

MUL 2010	Enjoyment of Music or	3 hrs
THE 2000	Theatre Survey or	3 hrs
PHI 2010	Introduction to Philosophy	3 hrs

Freshman Year - Summer 6 hrs

POS 2041	American National Government	3 hrs
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Education Track 3 hrs

EDF 2130	Child and Adolescent Development for Educators	3 hrs
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Lifelong Learning Track 3 hrs

Select 1: 3 hrs

EDF 2130	Child and Adolescent Development for Educators or	3 hrs
EDP 2270	Adult Development & Learning	3 hrs

Sophomore Year - Fall 15 hrs

BSC 2010C	Biology I	4 hrs
CHM 2045C	Chemistry Fundamentals I	4 hrs
MAC 2311	Calculus with Analytic Geometry I	4 hrs
EDF 2005	Introduction to the Teaching Profession	3 hrs

Sophomore Year - Spring 14 hrs

BSC 2011C	Biology II	4 hrs
EDF 2085	Introduction to Diversity for Educators	3 hrs
EME 2040	Introduction to Technology for Educators	3 hrs
CHM 2046	Chemistry Fundamentals II	3 hrs
CHM 2046L	Chemistry Fundamentals Laboratory	1 hr

Sophomore Year - Summer 3 hrs

TSL 4080	Theory and Practice of Teaching ESOL Students in Schools	3 hrs
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Junior Year - Fall 14 hrs

EDF 4467	Learning Theory and Assessment	3 hrs
EDG 4410	Teaching Strategies and Classroom Management	3 hrs

Education Track 4 hrs

PCB 3044	Principles of Ecology and	3 hrs
PCB 3044L	Principles of Ecology Laboratory	1 hr

Select one of the following sequences of courses:

PCB 3063	Genetics and	3 hrs
PCB 3063L	Genetics Laboratory	1 hr

or
PCB 3703C Human Physiology 4 hrs

or
ZOO 3733C Human Anatomy 4 hrs

Lifelong Learning Track 8 hrs

Choose Lifelong Learning Specialization courses 8 hrs

Junior Year - Spring 13 hrs

RED 4043 Content Reading in Kindergarten through Grade 12 3 hrs

Education Track 10 hrs

MCB 3020C General Microbiology and
CHM 2205 Introduction to Organic and Biochemistry 5 hrs

Lifelong Learning Track 10 hrs

MHS 2330 Career Planning and
Choose Lifelong Learning Specialization courses 7 hrs

Junior Year - Summer 3 hrs

SCE 4361 Programs in Teaching Science 3 hrs

Senior Year - Fall 13 hrs

EDF 4603 Analysis and Application of Ethical, Legal,
and Safety Issues in Schools 3 hrs
EEX 4242 Teaching Exceptional Students in
Secondary Settings 3 hrs

Education Track 7 hrs

SCE 4360 Science Instructional Analysis and
SCE 3940 Internship 4 hrs
3 hrs

Lifelong Learning Track 7 hrs

Choose Lifelong Learning Specialization courses 7 hrs

Senior Year - Spring 12 hrs

Education Track 12 hrs

SCE 4941 Internship and
ESE 4033C Critical Issues and Trends in Secondary
Education 9 hrs
3 hrs

Lifelong Learning Track

Choose Lifelong Learning Specialization courses 12 hrs

Program Academic Learning Compacts

■ Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at:

http://www.o eas.ucf.edu/alc/academic_learning_compacts.htm

Equipment Fees

■ Part-Time Student: \$12 per term
■ Full-Time Student: \$24 per term