UCF Degree Programs

Science Education - Chemistry (B.S.)
College of Education and Human Performance
School of Teaching, Learning, and Leadership,
Education Building, Room: 209
http://education.ucf.edu/science/

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 all Education Common Program Prerequisite 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) (37 hrs)
   - Required ENC 1101 Composition I 3 hrs
   - Required ENC 1102 Composition II 3 hrs
   - Preferred SPC 1608 Fundamentals of Oral Communication 3 hrs

2. Cultural & Historical Foundations (9 hrs)
   - General Education Program elective from section B1 to meet Gordon Rule Requirement 3 hrs

Select 1:
- Preferred MUL 2010 Enjoyment of Music 3 hrs
- Preferred THE 2000 Theatre Survey 3 hrs
- Preferred PHI 2010 Introduction to Philosophy 3 hrs

3. Core Requirements: Basic Level (4 hrs)
   - Preferred POS 2041 American National Government 3 hrs
   - Preferred PSY 2012 General Psychology 3 hrs

4. Core Requirements: Advanced Level (55 hrs)
   - Preferred CHM 3120 Analytical Chemistry 3 hrs
   - Preferred PHY 2053C College Physics I 4 hrs

A: Communication Foundations (9 hrs)
- Required ENC 1101 Composition I 3 hrs
- Required ENC 1102 Composition II 3 hrs
- Preferred 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:
- Preferred MUL 2010 Enjoyment of Music 3 hrs
- Preferred THE 2000 Theatre Survey 3 hrs
- Preferred PHI 2010 Introduction to Philosophy 3 hrs

C: Mathematical Foundations (6 hrs)
- Required MAC 1114C College Trigonometry 3 hrs

Select 1:
- Preferred STA 1063C Basic Statistics Using Microsoft Excel or 3 hrs
- Preferred STA 2014C Principles of Statistics 3 hrs

D: Social Foundations (6 hrs)
- Preferred POS 2041 American National Government 3 hrs
- Preferred PSY 2012 General Psychology 3 hrs

E: Science Foundations (7 hrs)
- Required BSC 2010C Biology I 4 hrs
- Required PSC 1121 Physical Science 3 hrs

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

2. Common Program Prerequisites (CPP) (21 hrs)
   - See “Common Prerequisites” in the Transfer and Transitions Services section for more information.

EFD 2130 Child and Adolescent Development for Educators 3 hrs

Lifelong Learning Track 6 hrs
   - MHS 2330 Career Planning 3 hrs

Select 1:
- EDF 2130 Child and Adolescent Development for Educators 3 hrs
- EDP 2270 Adult Development & Learning 3 hrs

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
- EDF 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
- TSL 4080 Theory and Practice of Teaching ESOL Students in Schools 3 hrs

Lifelong Learning Track 3 hrs
   - SCE 4361 Programs in Teaching Science 3 hrs

1 Prerequisite to Internship I

Education Track Specialization Requirements 21 hrs
   - CHM 2046 Chemistry Fundamentals II CPP
   - CHM 2046L Chemistry Fundamentals Laboratory CPP
   - PHY 2053C College Physics I CPP
   - CHM 3120 Analytical Chemistry 3 hrs
   - CHM 3120L Analytical Chemistry Laboratory 1 hr
   - CHM 2210 Organic Chemistry I 3 hrs

1 In addition, 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.
University of Central Florida

Undergraduate Catalog 2016-2017

UCF Degree Programs

CHM 2211 Organic Chemistry II 3 hrs
CHM 2211L Organic Laboratory Techniques I 2 hrs
CHS 3501 Introduction to Forensic Science 3 hrs
BCH 4053 Biochemistry I 3 hrs
SCE 4361 Programs in Teaching Science 3 hrs

Internship I Block 7 hrs
- Program Internship I Prerequisites: EDG 4410, TSL 4080 and at least 50% of all required chemistry courses must be completed prior to Internship I with a minimum grade of "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/
- Internship II Block 12 hrs
  - At least 80% of all required chemistry 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 (Chemistry 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 Florida Educator Accomplished Practices in accordance with State Board of Education Rule 6A-5.066.
  - SCE 4360 Science Instructional Analysis 4 hrs
  - SCE 3940 Internship 3 hrs

Lifelong Learning Track Specialization 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.
  - CHM 3120 Analytical Chemistry 3 hrs
  - CHM 3120L Analytical Chemistry Laboratory 1 hr
  - CHM 2210 Organic Chemistry I 3 hrs
  - CHM 2211 Organic Chemistry II 3 hrs
  - CHM 2211L Organic Laboratory Techniques I 2 hrs
  - CHS 3501 Introduction to Forensic Science 3 hrs
  - BCH 4053 Biochemistry I 3 hrs
  - EDF 4941 Directed Field Experience 1 hr
  - EDF 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 4 hrs
  - MAN 3025 Management of Organizations 3 hrs
  - MAN 4101 Human Relations in Management 3 hrs
  - MAR 3023 Marketing 3 hrs
  - ECT 4184 Curriculum Development Techniques for Industry Training 3 hrs
  - HFT 1000 Introduction to the Hospitality and Tourism Industry 3 hrs
  - HFT 2750 The Event Industry 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
- None

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

Total Semester Hours Required 120
## UCF Degree Programs

### 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)

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman Year - Fall</td>
<td></td>
<td>GEPT B1 Elective</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSC 1121L Physical Science Lab</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Freshman Year - Spring</td>
<td></td>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MAC 1114C College Trigonometry</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Freshman Year - Summer</td>
<td></td>
<td>GEPT B3 Elective (Prefer course from section B1)</td>
<td></td>
</tr>
<tr>
<td>Sophomore Year - Fall</td>
<td></td>
<td>MUL 2010 Enjoyment of Music or</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>THE 2000 Theatre Survey or</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Sophomore Year - Spring</td>
<td></td>
<td>CHM 2045C Chemistry Fundamentals I</td>
<td>4 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHM 2045L Chemistry Fundamentals Laboratory</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EDF 2085 Introduction to Diversity for Educators</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EME 2040 Introduction to Technology for Educators</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Education Track</td>
<td></td>
<td>EDF 2130 Child and Adolescent Development for Educators</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Lifelong Learning Track</td>
<td></td>
<td></td>
<td>3 hrs</td>
</tr>
<tr>
<td>Sophomore Year - Summer</td>
<td></td>
<td>PHY 2053C College Physics I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Junior Year - Fall</td>
<td></td>
<td>EDF 4467 Learning Theory and Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EDG 4410 Teaching Strategies and Classroom Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EEX 4242 Teaching Exceptional Students in Secondary Settings</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Education Track</td>
<td></td>
<td>CHM 2210 Organic Chemistry I and</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHM 3120 Analytical Chemistry and</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHM 3120L Analytical Chemistry Laboratory</td>
<td>1 hr</td>
</tr>
<tr>
<td>Lifelong Learning Track</td>
<td></td>
<td></td>
<td>7 hrs</td>
</tr>
<tr>
<td>Senior Year - Fall</td>
<td></td>
<td>EDF 4603 Analysis and Application of Ethical, Legal,</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and Safety Issues in Schools</td>
<td></td>
</tr>
<tr>
<td>Education Track</td>
<td></td>
<td>CHM 2211 Organic Chemistry II and</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHM 2211L Organic Laboratory Techniques I and</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHS 3501 Introduction to Forensic Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Lifelong Learning Track</td>
<td></td>
<td>MHS 2530 Career Planning and</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Choose Lifelong Learning Specialization courses</td>
<td>5 hrs</td>
</tr>
<tr>
<td>Junior Year - Summer</td>
<td></td>
<td>SCE 4361 Programs in Teaching Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Senior Year - Spring</td>
<td></td>
<td>EDF 4941 Internship and</td>
<td>9 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ESE 4033C Critical Issues and Trends in Secondary Education</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Education Track</td>
<td></td>
<td>CHM 2211 Organic Chemistry II and</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHM 3120 Analytical Chemistry and</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CHM 3120L Analytical Chemistry Laboratory</td>
<td>1 hr</td>
</tr>
<tr>
<td>Lifelong Learning Track</td>
<td></td>
<td></td>
<td>12 hrs</td>
</tr>
</tbody>
</table>

### Program Academic Learning Compacts
- Program Academic Learning Compacts (student learning outcomes) for undergraduate programs are located at: [http://www.oeas.ucf.edu/alc/academic_learning_compacts.htm](http://www.oeas.ucf.edu/alc/academic_learning_compacts.htm)

### Equipment Fees
- Part-Time Student: $12 per term
- Full-Time Student: $24 per term