UCF Degree Programs

Forensic Science - Analysis Track (B.S.)
College of Sciences
Department of Chemistry,
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Admission Requirements
■ None

Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog.
■ Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
■ Co-op credit cannot be used in this major.
■ Students should consult with a departmental advisor.
■ Students must complete categories 2 (Common Program Prerequisites) and 3 (Core Requirements: Basic Level) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the courses described in categories 4 and 5.
■ Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
■ All prerequisites of courses taught within the College of Sciences will be enforced.
■ Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (GEP) (39 hrs)
■ Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36

A: Communication Foundations (9 hrs)
Prefer SPC 1603C Fundamentals of Technical Presentations
Required ENC 1101 Composition I 3 hrs
Required ENC 1102 Composition II 3 hrs

B: Cultural & Historical Foundations (9 hrs)
C: Mathematical Foundations (7 hrs)
Required MAC 2311C Calculus with Analytic Geometry I 4 hrs
Required STA 2023 Statistical Methods I 3 hrs

D: Social Foundations (6 hrs)
E: Science Foundations (8 hrs)
Required PHY 2046C General Physics Using Calculus I 4 hrs
Required PHY 2049C General Physics Using Calculus II 4 hrs

2. Common Program Prerequisites (CPP) (16 hrs)
■ See “Common Prerequisites” in the Transfer and Transitions Services section for more information.

BSC 2010C Biology I GEP

Select one of the following sequences of courses:
CHM 2045C Chemistry Fundamentals I 4 hrs
or
CHM 2040 Chemistry Fundamentals I A and
CHM 2041 Chemistry Fundamentals I B 3 hrs

Take all of the following:
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2046L Chemistry Fundamentals Laboratory 1 hr
MAC 2311C Calculus with Analytic Geometry I GEP
MAC 2312 Calculus with Analytic Geometry II 4 hrs
PHY 2048C General Physics Using Calculus I GEP
PHY 2049C General Physics Using Calculus II 4 hrs

3. Core Requirements: Basic Level (18 hrs)
■ All courses specifically identified in the preceding Common Program Prerequisites section of this catalog are also required in the Basic Core, and must be taken.

Basic Core: Required, satisfies the CPP
CHM 2045C Chemistry Fundamentals I CPP
- or
CHM 2040 Chemistry Fundamentals I A and
CHM 2341 Chemistry Fundamentals I B

- and
CHM 2046 Chemistry Fundamentals II and
CHM 2046L Chemistry Fundamentals Laboratory and
BSC 2010C Biology I and CPP
MAC 2311C Calculus with Analytic Geometry I and CPP
MAC 2312 Calculus with Analytic Geometry II and CPP
PHY 2048C General Physics Using Calculus I and CPP
PHY 2049C General Physics Using Calculus II and CPP

Basic Core: Additional Requirements 18 hrs
CHM 2210 Organic Chemistry I and
CHM 2211 Organic Chemistry II and
CHM 2211L Organic Laboratory Techniques I and 2 hrs
CHM 3120 Analytical Chemistry and
CHM 3120L Analytical Chemistry Laboratory and 1 hr
STA 2023 Statistical Methods I and GEP
PCB 3063 Genetics and
PCB 3233 Immunology 3 hrs

4. Core Requirements: Advanced Level (34 hrs)
A. Forensic Science Core: 18 hrs
CHS 3501 Introduction to Forensic Science 3 hrs
CHS 3505C Forensic Microscopy 4 hrs
CHS 3533 Forensic Biochemistry I 2 hrs
CHS 3595 Forensic Science in the Courtroom 3 hrs
CHS 4537 Forensic Laboratory Quality Assurance 2 hrs
CHS 4591 Forensic Science Internship 4 hrs

B. Forensic Analysis Track: 16 hrs
CHM 3422 Applied Physical Chemistry 3 hrs
CHM 4130 Advanced Analytical Laboratory Technique 3 hrs
CHM 4130L Advanced Analytical Chemistry Laboratory 2 hrs
CHS 3511C Trace Evidence 4 hrs
CHS 3530C Forensic Analysis of Controlled Substances 4 hrs

5. Restricted Electives (12 hrs)
Select from the following: 12 hrs
■ Note: Substitutions require prior approval by the Forensic Program advisor.

ANT 4521 Forensic Anthropology 3 hrs
BCH 4053 Biochemistry I 3 hrs
CHS 3215L Organic Laboratory Techniques II 2 hrs
CHM 4912 Directed Independent Research 3 hrs
CHS 4506C Forensic Investigation Technology 3 hrs
CHS 4515C Forensic Crime Scene Investigation 4 hrs
PCB 3063L Genetics Laboratory 1 hr
PCB 3233L Immunology Laboratory 1 hr
CHS 3533L Forensic Biochemistry I Laboratory 1 hr
CHS 4534C Forensic Biochemistry II 3 hrs

6. Capstone Requirements
■ None

7. Foreign Language Requirements Admissions
■ Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation
■ None

8. Electives
■ Select primarily from upper level courses after consulting with a departmental advisor. Courses may be outside the department.

9. Additional Requirements
■ None
10. Required Minors
■ None
11. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
- Students must maintain a cumulative GPA of 2.5 in all courses taken to meet Common Program Prerequisites and Core Requirements: Basic Level.
- Students must maintain a cumulative GPA of 2.5 in all course taken to meet Core Requirements: Advanced Level and Restricted Electives.
- All attempts of courses taken that could meet major requirements are included in the GPA calculation. Additional courses that could meet requirements but are taken beyond the minimum required (e.g., additional restricted electives) and a “C” (2.0) or better is earned are also included in both GPA calculations.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

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
- 124
- Honors In Major
- None

Related Programs
- Chemistry
- Forensic Science - Biochemistry Track

Certificates
- Behavioral Forensics
- Crime Scene Investigation

Related Minors
- Chemistry

Advising Notes
- None

Transfer Notes
- Lower division courses do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for Transfer Courses
- CHM 2045C: may use CHM X040 plus CHM X041.
- Calculus: Although other math courses may satisfy the CPP, the specified courses are required in the major and still must be taken.
- Physics: Although CPP requirements permit substitution by Organic Chemistry, all the specified courses are required for graduation and still must be taken.

Plan of Study
- One of numerous possible plans of study. See program description for all requirements. Consult a departmental advisor for alternate, new or more appropriate selections.
- Before registering for Chemistry, take Chemistry Placement Test – http://knightsource.sdes.ucf.edu/placement
- Before registering for Math, take Math Placement Test – http://utc.sdes.ucf.edu
- Because of the rigorous nature of these classes, students should plan on utilizing summer terms. In addition, you may be required to complete 9 hours during the Summer. Consult with an advisor to determine if you are exempt.

This plan assumes you need to begin with the two semester chemistry course and pre-calculus. Having to start at a lower math class will increase the hours needed to be taken.

**Freshman Year - Fall**
- CHM 2040  Chemistry Fundamentals I  12 hrs
- CHS 3501  Introduction to Forensic Science  3 hrs
- MAC 1140C  Pre-Calculus Algebra  3 hrs
- ENC 1101  Composition I  3 hrs

**Freshman Year - Spring**
- CHM 2041  Chemistry Fundamentals IIB  3 hrs
- BSC 2010C  Biology I  4 hrs
- MAC 2311C  Calculus with Analytic Geometry I  4 hrs
- ENC 1102  Composition II  3 hrs

**Freshman Year - Summer**
- CHM 2046  Chemistry Fundamentals II  3 hrs
- CHM 2046L  Chemistry Fundamentals Laboratory  1 hr

**Sophomore Year - Fall**
- CHM 2210  Organic Chemistry I  14 hrs
- PHY 2048C  General Physics Using Calculus I  4 hrs
- STA 2023  Statistical Methods I  3 hrs
- MAC 2312  Calculus with Analytic Geometry II  4 hrs

**Sophomore Year - Spring**
- CHM 2211  Organic Chemistry II  15 hrs
- CHM 2211L  Organic Laboratory Techniques I  2 hrs
- Lab may be taken in a later term if seats are not available.
- PHY 2049C  General Physics Using Calculus II  4 hrs
- Restricted Elective  3 hrs
- GE 3 hrs

**Junior Year - Fall**
- CHS 3505C  Forensic Microscopy  15 hrs
- CHM 3120  Analytical Chemistry  3 hrs
- CHM 3120L  Analytical Chemistry Laboratory  1 hr
- PCB 3233  Immunology  3 hrs
- Restricted Elective  1 hr
- GE 3 hrs

**Junior Year - Spring**
- CHS 3511C  Trace Evidence  13 hrs
- CHS 4537  Forensic Laboratory Quality Assurance  4 hrs
- CHS 3595  Forensic Science in the Courtroom  2 hrs
- CHS 4591  Forensic Science Internship  3 hrs

**Junior Year - Summer**
- CHS 4515C  Forensic Crime Scene Investigation  7 hrs
- Restricted Elective  3 hrs

- (or other restricted elective)

**Senior Year - Fall**
- CHS 3530C  Forensic Analysis of Controlled Substances  13 hrs
- CHS 3533  Forensic Biochemistry I  4 hrs
- CHM 3422  Applied Physical Chemistry  3 hrs
- GE 3 hrs
- Restricted Elective  1 hr

**Senior Year - Spring**
- CHM 4130  Advanced Analytical Laboratory Technique  14 hrs
- CHM 4130L  Advanced Analytical Chemistry Laboratory  3 hrs
- SPC 1603C  Fundamentals of Technical Presentations  3 hrs
- GE 3 hrs

**Senior Year - Summer**
- CHS 4591  Forensic Science Internship  4 hrs

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

Equipment Fees
- Part-Time Student: $45 per term
- Full-Time Student: $90 per term