UG New Certificate - Kurdish Studies Certificate

Required Courses
Select one course from the following (if both courses are taken, one will count as an elective)

- CPO 4400 Kurdish Politics: Identity, Violence, and Democracy
- ASH 3244 History of the Kurds in the Middle East

Restricted Electives
Select three courses from the following list.

- ANT 3275 Anthropological Perspectives on Refugees
- ARA 1120C Elementary Arabic Language and Civilization I
- ARA 1121C Elementary Arabic Language and Civilization II
- ARA 2200 Intermediate Arabic Language and Civilization I
- ARA 2201 Intermediate Arabic II
- ASH 3204 History of Mesopotamia
- ASH 3222 Islam and Its Empires
- ASH 3223 The Modern Middle East
- ASH 4243 History of Iraq
- CPO 3034 Politics of Developing Areas
- CPO 3403 Politics of the Middle East
- CPO 3403H Honors Politics of the Middle East
- CPO 4406 Minorities and Majorities in the Middle East
- FOL 1931 Elementary Kurdish Language & Civilization I
- FOL 1932 Elementary Kurdish Language & Civilization II
- INR 4075 Human Rights Policy
- INR 4084 Politics of International Terrorism
- INR 4084H Honors Politics of International Terrorism
- INR 4102 American Foreign Policy
- INR 4274 International Politics of the Middle East
- REL 3320 Moses, Jesus and Muhammad
- REL 3363 Islam

Total Undergraduate Credit Hours Required: 12

Other Requirements
- Internship, Honors in the Major Thesis, independent study, and substitute courses/new courses are allowed with the approval from the certificate advisor (up to 3 credit hours).
UG New Track - Political Science, Intelligence and National Security Track (B.A.)

General Education Program (GEP) (36 Credit Hours)

- At least one course completed in each Foundation area must be a designated State General Education Core Course.

Communication Foundations (9 Credit Hours)

- ENC 1101 Composition I [Right] (Required)
- ENC 1102 Composition II [Right] (Preferred)
- SPC 1608 Fundamentals of Oral Communication [Right] (Preferred)

Cultural & Historical Foundations (9 Credit Hours)

- Select two courses from Cultural & Historical Foundations, Area 2.

Select One: (3 Credit Hours)

- AMH 2010 U.S. History: 1492-1877 [Right] (Preferred)
- EUH 2001 Western Civilization II [Right] (Preferred)
- WOH 2022 World Civilization II [Right] (Preferred)

Mathematical Foundations (6 Credit Hours)

Math: (3 Credit Hours)

- MGF 1106 Finite Mathematics [Right] (Preferred)
- MGF 1107 Explorations in Mathematics [Right] (Preferred)

[After] May substitute a higher level math with appropriate scores on the Math Placement Test.
Statistics: (3 Credit Hours)

STA 2014C Principles of Statistics
[Right] (Preferred)
[After] May substitute a higher level statistics course. **Credit Hours: 3**

Social Foundations (6 Credit Hours)

Political Science (3 Credit Hours)

POS 2041 American National Government
[Right] (Required)

Social Science (3 Credit Hours)

- Select one of the listed courses from Social Foundations. **Credit Hours: 3**

Science Foundations (6 Credit Hours)

Common Program Prerequisites (CPP) (3 Credit Hours)

See Acceptable Substitutes for Transfer Courses for possible substitutes for the courses listed below.

- POS 2041 American National Government
  [Right] (GEP)
  POS 3703 Scope and Methods of Political Science

Core Requirements: Basic Level (6 Credit Hours)

Courses specifically identified in the preceding Common Program Prerequisites section of this catalog are also required in the Basic Core, and must be taken.

- POS 2041 American National Government
  [Right] (GEP/CPP)
- CPO 3103 Comparative Politics
- INR 2002 International Relations-Theory and Practice
Core Requirements: Advanced Level (6 Credit Hours)
Courses specifically identified in the preceding Common Program Prerequisites section of this catalog are also required in the Basic Core, and must be taken.

POS 3703 Scope and Methods of Political Science  
[Right] (CPP)  
POS 4961 Exit Course  
[Right] (course during graduating semester)  
INR 4364 The Intelligence Community

Restricted Electives (21 Credit Hours)

Take three of the following courses: (9 Credit Hours)

INR 4363 Intelligence Analysis and Reporting  
[Before] POS 4340: Research Methods in Intelligence 3  
[Before] INR 4367: Intelligence Process 3  
[Before] INR 4369: Intelligence Studies Capstone 3

Take all of the following: (12 Credit Hours)

- One course from Area A Credit Hours: 3  
- One course from Area B Credit Hours: 3  
- One course from Area C Credit Hours: 3  
- One course from Any Area Credit Hours: 3

Areas of Specialization

A. American Politics and Policy Area

POS 3076 American Indian Politics  
[Right] or  
POS 3122 State Government and Public Policy  
[Right] or  
POS 3173 Southern Politics  
[Right] or  
POS 3182 Florida Politics  
[Right] or  
POS 3233 Public Opinion  
[Right] or
POS 3234 Protest in American Politics
or
POS 3235 Mass Media and Politics
or
POS 3258 Politics in Film
or
POS 3272 Civic Engagement
or
POS 3273 Voting and Elections
or
POS 3413 The American Presidency
or
POS 3424 Congress and the Legislative Process
or
POS 3443 Political Parties and Processes
or
POS 3463 Interest Groups
or
POS 3733 Designing Political Science Research
or
POS 4030 The Politics of Sports
or
POS 4023 The Politics of LGBTQ+ Policy
or
POS 4074 Latino Politics
or
POS 4142 Metropolitan Politics
or
POS 4204 Political Behavior
or
POS 4244 Political Socialization
or
POS 4412 Presidential Campaigning
or
POS 4603 American Constitutional Law I
or
POS 4604 American Constitutional Law II
or
POS 4622 Politics and Civil Rights
or
POS 4623 Guns, Freedom and Citizenship
or
POS 4700 Teaching American Politics and Government
or
POS 4764 GIS for Political Analysis
or
PUP 3203 Environmental Politics
or
PUP 3204 Sustainability
or
PUP 3314 Minorities in American Politics
[Right] or
PUP 4003 American Public Policy
[Right] or
PUP 4209 Urban Environmental Policy
[Right] or
PUP 4323 Women and Public Policy
[Right] or
PUP 4404 Education and Politics
[Right] or
PUP 4503 Government and Science
[Right] or
PUP 4510 Space Policy
[Right] or
PUP 4744 Government and Business
[Right] or
PUP 4931 Topics in Public Policy

B. International Relations and Comparative Government Area

CPO 3034 Politics of Developing Areas
[Right] or
CPO 3057 Contemporary Revolution and Political Violence
[Right] or
CPO 3103 Comparative Politics
[Right] or
CPO 3104 Politics of Western Europe
[Right] or
CPO 3132 Canadian Politics
[Right] or
CPO 3403 Politics of the Middle East
[Right] or
CPO 3614 Politics of Eastern Europe
[Right] or
CPO 4062 Comparative Judicial Process
[Right] or
CPO 4074 Political Economy
[Right] or
CPO 4101 Politics of the European Union
[Right] or
CPO 4123 Government and Politics of Great Britain
[Right] or
CPO 4303 Comparative Latin American Politics
[Right] or
CPO 4400 Kurdish Politics: Identity, Violence, and Democracy
[Right] or
CPO 4514 Politics of East Asia
CPO 4541 Chinese Politics
CPO 4553 Politics of Japan
CPO 4643 Government and Politics of Russia
CPO 4710 Women in Comparative Politics
CPO 4731 Politics of Democratization
CPO 4754 Comparative Political Institutions
CPO 4784 Political and Economic Inequality in Comparative Perspective
CPO 4794 Indigenous Politics and the Environment
GEO 3471 World Political Geography
INR 2002 International Relations-Theory and Practice
INR 3016 Global Political Issues
INR 3250 Politics of Pan-Africanism
INR 3253 International Politics of Africa
INR 4008 Global Perspectives
INR 4011 Politics of Globalization
INR 4030 Diplomacy
INR 4035 International Political Economy
INR 4054 Global Politics of Energy
INR 4060 Causes of War
INR 4063 The Cold War
INR 4074 Immigration Policy
INR 4075 Human Rights Policy
INR 4076 Global Drug Policy
INR 4084 Politics of International Terrorism
INR 4085 Women, Gender, and Globalization
[Right] or
INR 4102 American Foreign Policy
[Right] or
INR 4104 Topics and Cases in American Foreign Policy
[Right] or
INR 4114 American Security Policy
[Right] or
INR 4115 Strategic Weapons and Arms Control
[Right] or
INR 4224 Contemporary International Politics of Asia
[Right] or
INR 4225 The Vietnam War
[Right] or
INR 4243 International Politics of Latin America
[Right] or
INR 4274 International Politics of the Middle East
[Right] or
INR 4304 Issues in International Public Policy
[Right] or
INR 4335 Coercion in International Politics
[Right] or
INR 4350 Global Environmental Politics
[Right] or
INR 4351 International Environmental Law
[Right] or
INR 4363 Intelligence Analysis and Reporting
[Right] or
INR 4364 The Intelligence Community
[Right] or
INR 4401 International Law
[Right] or
INR 4404 Space Law
[Right] or
INR 4502 International Organizations
[Right] or
INR 4714 Politics of International Trade Policy
[Right] or
INR 4764 Cyberwarfare Policy
[Right] or
INR 4765 Emerging Space Powers
[Right] or
INR 4744 Militaries in World Politics
[Right] or
POS 3733 Designing Political Science Research
[Right] or
PUP 3014 Comparative Public Policy
[Right] or
PUP 4510 Space Policy
C. Political Theory Area

INR 4603 International Relations Theory
POS 4206 Political Psychology
POT 3302 Modern Political Ideologies
POT 4003 Political Theory
POT 4025 Ancient, Medieval and Early Modern Political Philosophy
POT 4066 Contemporary Political Theory
POT 4305 Democracy, Capitalism, and the Individual
POT 4314 Contemporary Democratic Theory
POT 4331 Utopia/Dystopia
POT 4345 Pan-Africanist Thought
POT 4632 Religion and Politics

Capstone Requirements

- None

Electives

Select primarily from upper level courses after meeting with a school advisor. Courses may be outside the school.

Internship Program: For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

Students who qualify for Senior Scholars Program may enroll in graduate level courses to satisfy major requirements to take Area courses.

The following courses are not required, but serious students should consider taking these as free electives:

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- BUL 3130 Legal and Ethical Environment of Business
- ENC 3241 Writing for the Technical Professional
- ENC 3250 Professional Writing
- LIN 4105 History of the English Language
- MHF 3302 Logic and Proof in Mathematics
- PHI 2101 Formal Logic I
- PLA 3108 Legal Research
- PLA 3155 Legal Writing
- POS 4941 Political Science Internship

Foreign Language Requirements
Admissions

- Met by graduation requirement

Graduation

- Proficiency equivalent to two semesters of college instruction in a foreign language or in American Sign Language (ASL). Standardized examinations for foreign languages may be used. ASL proficiency is met by successful completion of ASL 2140 and ASL 2150 or an appropriate score on the ASL proficiency exam. Contact the Department of Communication Sciences and Disorders (https://healthprofessions.ucf.edu/csd/) regarding the ASL proficiency examination.

Additional Requirements

- None

Required Minors

- None

Program Exit Requirements

- Students must maintain a minimum cumulative GPA of 2.0 in all courses used to satisfy major requirements.

- Complete the POS 4961 Exit Course during the student’s graduating semester.

University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 60 semester hours earned after CLEP awarded
- 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 Undergraduate Credit Hours Required: 120
Additional Information

High Impact Learning Experiences

High Impact Learning Experiences are available to all students. Interested students may select from the following options:

- POS 3940 Internship*
- POS 3955 Study Abroad*
- POS 4903H Honors Directed Reading I*
- POS 4904H Honors Directed Reading II*
- POS 4912 Directed Independent Research*
- POS 4941 Internship*
- POS 4955 Study Abroad*
- POS 4970H Undergraduate Honors Thesis*
- Any course designated as Research Intensive
- Any course designated as Service Learning
- Any course designated as an Integrated Learning Experience

* These courses may also be taken with an INR, CPO, PUP, or POT prefix.

Honors In Major

- Application and admission through The Burnett Honors College. More information about Honors in the Major can be found at [honors.ucf.edu/research](http://honors.ucf.edu/research).
- Interested students who meet the requirements are encouraged to participate in the HIM program. Contact the school for information about the program and the HIM coordinator.

Related Programs

- [Economics (B.S.)](#)
- [History (B.A.)](#)
- [Philosophy (B.A.)](#)
- [Legal Studies (B.A. or B.S.)](#)
- [Criminal Justice (B.A. or B.S.)](#)

Certificates

- [Diplomacy Certificate](#)
- [Intelligence and National Security Certificate](#)
- [Civics Teaching Certificate](#)

Related Minors

- [Business Minor](#)
- [Criminal Justice Minor](#)
- [Diplomacy Minor](#)
- [Economics Minor](#)
- [English, Creative Writing Minor](#)
English, Technical Communication Minor
History Minor
Human Communication Minor
Intelligence and National Security Minor
Legal Studies Minor
Mass Media Minor
Philosophy Minor
Public Administration Minor
Sociology Minor
Writing and Rhetoric Minor

Advising Notes

- Contact your college advisor in the College of Sciences Advising Services (COSAS) office (CSB 250) for more information about overall progress toward your degree, GEP and other university requirements, academic probation, special problems as well as general academic advising.

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.
- Submit your requests for course evaluations at https://sciences.ucf.edu/cosas/ and click on "COS Course Evaluation".

Acceptable Substitutes for Transfer Courses

- The following substitutions for common program prerequisites are acceptable if taken prior to transferring to UCF:
  - **POS 2041**: any three hours of introductory Political Science classes will satisfy the CPP. However since this course is required in the core of the major and is a prerequisite to subsequent courses, it still must be taken.
  - **POS 3703**: any three hours of introductory Political Science classes will satisfy the CPP. However since this course is required in the core of the major, it still must be taken.

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

Plan of Study

- This is one of numerous possible plans of study. See program description for all requirements.
- Consult a school advisor for alternate, new or more appropriate selections.
- Use your Pegasus Path planning tool in your myUCF portal to plan your courses through to graduation.
Prior to enrolling in Math, take Math Placement Test ~
https://www.sdes.ucf.edu/placement-tests/
You may be required to complete 9 hours of them during the Summer. Consult with an advisor to determine if you are exempt.

Freshman Year - Fall (13 Credit Hours)

POS 2041 American National Government
ENC 1101 Composition I
[After] Foreign Language (XXX1120) **Credit Hours: 4**

Select One: GEP 4 - Historical Foundation Credit Hours: 3

AMH 2010 U.S. History: 1492-1877
[After] or
EUH 2001 Western Civilization II
[After] or
WOH 2022 World Civilization II

Freshman Year - Spring (13 Credit Hours)

ENC 1102 Composition II
SPC 1608 Fundamentals of Oral Communication
[After] Foreign Language (XXX1121) **Credit Hours: 4**
MGF 1106 Finite Mathematics
[After] or
MGF 1107 Explorations in Mathematics

Freshman Year - Summer (6 Credit Hours)

- Restricted Elective **Credit Hours: 3**
- GEP **Credit Hours: 3**

Sophomore Year - Fall (15 Credit Hours)

[Before] Restricted Elective **Credit Hours: 3**
STA 2014C Principles of Statistics
[After] GEP **Credit Hours: 3**
[After] Free Elective **Credit Hours: 3**

Select One: Required Track Elective Credit Hours: 3

INR 4401 International Law
[After] or
POS 4603 American Constitutional Law I
[After] or
POS 4604 American Constitutional Law II

Sophomore Year - Spring (15 Credit Hours)

POS 3703 Scope and Methods of Political Science
[After] Restricted Elective Credit Hours: 3
[After] GEP Credit Hours: 3
[After] Free Elective Credit Hours: 3
[After] Free Elective Credit Hours: 3

Sophomore Year - Summer (3 Credit Hours)

- GEP Credit Hours: 3

Junior Year - Fall (15 Credit Hours)

- Restricted Elective Credit Hours: 3
- Restricted Elective Credit Hours: 3
- GEP Credit Hours: 3
- Free Elective Credit Hours: 3
- Free Elective Credit Hours: 3

Junior Year - Spring (15 Credit Hours)

- Restricted Elective Credit Hours: 3
- Restricted Elective Credit Hours: 3
- Free Elective Credit Hours: 3
- Free Elective Credit Hours: 3
- Free Elective Credit Hours: 3

Senior Year - Fall (13 Credit Hours)

- Restricted Elective Credit Hours: 3
- Restricted Elective Credit Hours: 3
- Free Elective Credit Hours: 4
- Free Elective Credit Hours: 3

Senior Year - Spring (12 Credit Hours)
<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 4961 Exit Course</td>
<td></td>
</tr>
<tr>
<td>[After] Free Elective</td>
<td>Credit Hours: 3</td>
</tr>
<tr>
<td>[After] Free Elective</td>
<td>Credit Hours: 3</td>
</tr>
<tr>
<td>[After] Free Elective</td>
<td>Credit Hours: 3</td>
</tr>
<tr>
<td>[After] Free Elective</td>
<td>Credit Hours: 3</td>
</tr>
</tbody>
</table>
UG New Certificate - Politics of Race, Ethnicity, Gender, and Identity Certificate

Required Course (3 Credit Hours)

[Before] Select one course from the following (if both courses are taken one will count as an elective)  
POS 4622 Politics and Civil Rights
PUP 3314 Minorities in American Politics

Restricted Electives (9 Credit Hours)

[Before] Select three courses from the following list:  
ANT 3451 Race Matters: Anthropological Approaches to Racism
AMH 3560 Women, Law, and Society in American History
AMH 3562 Women in American History II
AMH 3572 Black American History II
AMH 3580 North American Indians
AMH 4575 History of the Civil Rights Movement
CPO 4710 Women in Comparative Politics
CPO 4794 Indigenous Politics and the Environment
INR 3250 Politics of Pan-Africanism
INR 4074 Immigration Policy
INR 4075 Human Rights Policy
INR 4085 Women, Gender, and Globalization
LAS 4023 African Caribbean Experience
PLA 4843 Immigration Law and Policy
PLA 4886 Sexuality, Gender, & the Law
POS 3076 American Indian Politics
POS 3173 Southern Politics
POS 3234 Protest in American Politics
POS 4023 The Politics of LGBTQ+ Policy
POS 4030 The Politics of Sports
POS 4074 Latino Politics
POS 4604 American Constitutional Law II
PUP 4323 Women and Public Policy
SYD 3700 Race and Ethnicity
SYD 3772 Race and Social Media
SYD 3800 Sex and Gender in Society
SYD 4810 Women in Contemporary Society
SYD 4813 Women, Law and Social Change
WST 3015 Introduction to Women's Studies
WST 3371 Women and Leadership
WST 3603 Introduction to Gender Studies
WST 4349 Ecofeminism

Total Undergraduate Hours Required: 12

Other Requirements
- None
UG New Program - Data Science (B.S.)

Admission Requirements
- None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- With the exception of the Capstone course, co-op or internship credit cannot be used in this major. Students should consult with a departmental advisor.
- All prerequisites of courses taught within the College of Sciences and the College of Engineering and Computer Science will be enforced.
- Courses designated in the General Education Program (with the exception of prerequisite courses) may be spread over 4 years, and those designated in the Common Program Prerequisites section must be completed within the first 60 hours.
- Students must earn at least a "C" (2.0) in each advanced core required course for the major.
- Students must achieve a minimum cumulative GPA of 2.0 in all courses satisfying major requirements. Data Science students must have continual access to a computer. Contact the UCF Technology Product Center or see the website (http://www.cstore.ucf.edu) for the minimum hardware and software specifications.

General Education Program (GEP) (39 Credit Hours)
- Certain courses must be selected in the GEP for this major bringing the total hours to more than 36.
- At least one course completed in each Foundation area must be a designated State General Education Core Course.

Communication Foundations (9 Credit Hours)
- ENC 1101 Composition I
  [Required]
- ENC 1102 Composition II
  [Required]
- [After] Select one course from Area 3

Cultural & Historical Foundations (9 Credit Hours)
Mathematical Foundations (7 Credit Hours)

MAC 2311C Calculus with Analytic Geometry I
[Right] (Required)
STA 2023 Statistical Methods I
[Right] (Required)

Social Foundations (6 Credit Hours)

Science Foundations (8 Credit Hours)

BSC 2010C Biology I
[Right] (Required)

Select One:

CHM 2045C Chemistry Fundamentals I
[Right] (Required)
PHY 2048C General Physics Using Calculus I
[Right] (Required)

Common Program Prerequisites (CPP) (11 Credit Hours)

BSC 2010C Biology I
[Right] (GEP)
COP 3223C Introduction to Programming with C
MAC 2311C Calculus with Analytic Geometry I
[Right] (GEP)
MAC 2312 Calculus with Analytic Geometry II
MAC 2313 Calculus with Analytic Geometry III
STA 2023 Statistical Methods I
[Right] (GEP)

Select One:

CHM 2045C Chemistry Fundamentals I
[Right] (GEP)
PHY 2048C General Physics Using Calculus I
[Right] (GEP)
Core Requirements: Basic Level
The basic core is fulfilled by GEP adn CPP course completion.

- BSC 2010C Biology I [Right] (GEP)
- COP 3223C Introduction to Programming with C [Right] (CPP)
- MAC 2311C Calculus with Analytic Geometry I [Right] (GEP)
- MAC 2312 Calculus with Analytic Geometry II [Right] (CPP)
- MAC 2313 Calculus with Analytic Geometry III [Right] (CPP)
- STA 2023 Statistical Methods I [Right] (GEP)

Select One:

- CHM 2045C Chemistry Fundamentals I [Right] (GEP)
- PHY 2048C General Physics Using Calculus I [Right] (GEP)

Core Requirements: Advanced Level (49 Credit Hours)
Complete all of the following courses:

- COP 3502C Computer Science I
- CIS 4340 Data Management Technology
- COP 4283 Programming for Scientists
- ISC 4241 Data Science I
- ISC 4242 Data Science II
- ISC 4311 Predictive Analytics
- ISC 4323C Praxis for Data Science
- ISC 4551 Data Graphics and Visualization
- MAS 3105 Matrix and Linear Algebra
- STA 4364 Statistical Foundations of Data Science and Artificial Intelligence I
- STA 4365 Statistical Foundations of Data Science and Artificial Intelligence II
- STA 4163 Statistical Methods II
- STA 4164 Statistical Methods III
- STA 4724 Big Data Analysis Methods

Select One:

- COT 3100C Introduction to Discrete Structures
- MHF 3302 Logic and Proof in Mathematics
Select One

- CAP 4611 Algorithms for Machine Learning
- ESI 4312 Deterministic Methods for Operations Research
- MAP 4112 Mathematical Foundations of Machine Learning and Artificial Intelligence
- STA 4241 Statistical Learning

Electives (21 Credit Hours)

- Select primarily from upper level courses after meeting with a departmental advisor.
- Courses may be selected from among those courses not completed within the advanced core or outside the participating departments.

Capstone Requirements

- ISC 4323C Praxis for Data Science

Foreign Language Requirements

Admissions

- Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation

- None

Additional Requirements

- None

Required Minors

- None

Departmental Exit Requirements

- All students will complete an exit interview.
Students must earn at least a "C" (2.0) in each advanced core required course for the major.
Students must achieve a minimum cumulative GPA of 2.0 in all courses satisfying major requirements.

University Minimum Exit Requirements

- A 2.0 UCF GPA
- 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 Undergraduate Credit Hours Required: 120

Additional Information

Honors In Major

- Application and admissions through The Burnett Honors College and department. More information about Honors in the Major can be found at https://honors.ucf.edu/research/.

Related Programs

- Actuarial Science (B.S.)
- Computer Science (B.S)
- Industrial Engineering (B.S.)
- Mathematics (B.S.)
- Statistics (B.S.)

Certificates

- None

Related Minors

- Actuarial Science Minor
- Business Minor
- Computer Science Minor
- Economics Minor
- Information Technology Minor
- Leadership Studies Minor
- Mathematics Minor
- Secure Computing and Networks Minor
- Statistics Minor
Advising Notes

- It is the student's responsibility to ensure they have satisfied course prerequisites before registering for a class. Students should consult with a program advisor.
- Contact your college advisor in the College of Sciences Advising Services (COSAS) office (CSB 250) for more information about overall progress toward your degree, GEP and other university requirements, academic probation, special problems as well as general academic advising.

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.
- Submit your requests for course evaluations at https://sciences.ucf.edu/cosas/ and click on “COS Course Evaluation”.
- Courses transferred for equivalency to courses in the College of Engineering and Computer Science must be formally evaluated for equivalency by the relevant department.

Acceptable Substitutes for Transfer Courses

The following substitutions are acceptable for Common Program Prerequisites if taken as part of the AA course work.

- Computer Science: any COP programming language course will satisfy the CPP. However, COP 3223C (Introduction to Programming with C) is a prerequisite for Computer Science courses and still needs to be taken; however COP 2220 (C Programming) will be substituted for COP 3223C.

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

Plan of Study

- This is one of numerous possible plans of study. See program description for all requirements.
- Consult a departmental advisor for alternate, new or more appropriate selections.
- Use your Pegasus Path planning tool in your myUCF portal to plan your courses through to graduation.
- Prior to enrolling in Chemistry, take Chemistry Placement Test ~ https://www.sdes.ucf.edu/placement-tests/
- Prior to enrolling in Math, take Math Placement Test ~ https://www.sdes.ucf.edu/placement-tests/
- Although all classes are listed as being taken during the academic year, you may be required to complete 9 hours of them during the Summer. Consult with an advisor to determine if you are exempt.
Freshman Year - Fall (16 Credit Hours)

- ENC 1101 Composition I
- MAC 2311C Calculus with Analytic Geometry I
- SPC 1608 Fundamentals of Oral Communication

[Before] GEP Cultural/Historical Foundation, Area 1 3
[Before] GEP Social Foundation, Area 1 3

Freshman Year - Spring (16 Credit Hours)

- ENC 1102 Composition II
- MAC 2312 Calculus with Analytic Geometry II

[Before] GEP Cultural/Historical Foundation, Area 2 3
[Before] GEP Cultural/Historical Foundation, Area 3 3
[Before] GEP Social Foundation, Area 2 3

Sophomore Year - Fall (15 Credit Hours)

- BSC 2010C Biology I
- MAC 2313 Calculus with Analytic Geometry III
- PHY 2048C General Physics Using Calculus I
- STA 2023 Statistical Methods I

Sophomore Year - Spring (13 Credit Hours)

- COP 3223C Introduction to Programming with C
- MAS 3105 Matrix and Linear Algebra
- STA 4163 Statistical Methods II

Select One:

- COT 3100C Introduction to Discrete Structures
- MHF 3302 Logic and Proof in Mathematics

Junior Year - Fall (15 Credit Hours)

- COP 3502C Computer Science I
- ISC 4241 Data Science I
- STA 4364 Statistical Foundations of Data Science and Artificial Intelligence I
- STA 4164 Statistical Methods III

Select One:
<table>
<thead>
<tr>
<th>Junior Year - Spring (17 Credit Hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 4283 Programming for Scientists</td>
</tr>
<tr>
<td>ISC 4242 Data Science II</td>
</tr>
<tr>
<td>STA 4365 Statistical Foundations of Data Science and Artificial Intelligence II</td>
</tr>
<tr>
<td>[After] Elective Credit Hours: 3</td>
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<td>Elective Credit Hours: 3</td>
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<thead>
<tr>
<th>Senior Year - Fall (16 Credit Hours)</th>
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<tbody>
<tr>
<td>CIS 4340 Data Management Technology</td>
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<tr>
<td>ISC 4311 Predictive Analytics</td>
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<tr>
<td>ISC 4551 Data Graphics and Visualization</td>
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<td>STA 4724 Big Data Analysis Methods</td>
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<td>[After] Elective Credit Hours 3</td>
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<th>Senior Year - Spring (15 Credit Hours)</th>
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<tbody>
<tr>
<td>ISC 4323C Praxis for Data Science</td>
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<td>[After] Elective Credit Hours 3</td>
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