

## UCF Degree Programs

### Information Technology (B.S.)

**College of Engineering and Computer Science**

**Department of Computer Science,**

**Harris Corp. Engineering Center, Room: 346**

<http://www.cs.ucf.edu/>

**Email: [undergraduate@cs.ucf.edu](mailto:undergraduate@cs.ucf.edu)**

Dr. Ali Orooji

Jenny Shen

Phone: 407-823-2341

#### Admission Requirements

- None

#### Degree Requirements

- "C" (2.0) or better required in all prerequisites and courses required for the major.
- Students should consult with a departmental advisor.
- A Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from the Department of EECS at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.
- Students in the Information Technology major are expected to make consistent good progress toward their degrees to remain enrolled in, or eligible for, any major in the College of Engineering and Computer Science (CECS) or the College of Optics and Photonics (COP). Therefore, any student majoring in Information Technology who repeats any UCF course and does not earn a grade of "C" (2.0) or better on the second attempt will be placed on Lack of Progress Probation and remain on Lack of Progress Probation as long as the student is enrolled in a CECS or COP major. If a student on Lack of Progress Probation does not receive a grade of "C" (2.0) or better by the third attempt in the same UCF course, the student will be excluded from all CECS and COP majors. Any student majoring in Information Technology who has accumulated 7 or more unsuccessful attempts (i.e., grades below "C" (2.0) and withdrawals) over all courses taken at UCF will be placed on Lack of Progress Probation and remain on Lack of Progress Probation as long as the student is enrolled in a CECS or COP major. If a student on Lack of Progress Probation has a tenth unsuccessful attempt over all courses taken at UCF, the student will be excluded from all CECS and COP majors.

- A student who is excluded from CECS and COP majors may seek readmission to a major in CECS or COP after at least one full year has passed since exclusion. Readmission is not automatic and is dependent upon a high probability of success after readmission. Any student who is readmitted to the Information Technology major will be subject to all probation conditions that applied at the time of exclusion.

#### 1. UCF General Education Program (GEP) (37 hrs)

##### A: Communication Foundations (9 hrs)

Required	ENC 1101	Composition I	3 hrs
Required	ENC 1102	Composition II	3 hrs

##### Select 1: (3 hrs)

Prefer	SPC 1603C	Fundamentals of Technical Presentations or	3 hrs
Prefer	SPC 1608	Fundamentals of Oral Communication	3 hrs

##### B: Cultural & Historical Foundations (9 hrs)

##### C: Mathematical Foundations (6 hrs)

Required	STA 2023	Statistical Methods I	3 hrs
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##### Select 1: (3 hrs)

Suggested	MAC 1105C	College Algebra or	3 hrs
Suggested	MAC 1140C	Pre-Calculus Algebra	3 hrs

##### D: Social Foundations (6 hrs)

Required	ECO 2013	Principles of Macroeconomics	3 hrs
Required	PSY 2012	General Psychology	3 hrs

##### E: Science Foundations (7 hrs)

Required	PHY 2053C	College Physics I	4 hrs
Select one class from Science Foundations			3 hrs

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

- A "C" (2.0) or better is required in all these courses.

- See "Common Prerequisites" in the Transfer and

Transitions Services section for more information.

MAC 1114C	College Trigonometry	3 hrs
ECO 2013	Principles of Macroeconomics	GEP
PSY 2012	General Psychology	GEP
PHY 2053C	College Physics I	GEP
COP 3223C	Introduction to Programming with C	3 hrs
COP 3330	Object Oriented Programming	3 hrs
CGS 2545C	Database Concepts	3 hrs
STA 2023	Statistical Methods I	GEP

##### Select 1: (3 hrs)

MAD 2104	Foundations of Discrete Math or	3 hrs
COT 3100C	Introduction to Discrete Structures	3 hrs

#### 3. Core Requirements: Basic Level

- None

#### 4. Core Requirements: Advanced Level (52 hrs)

- A "C" (2.0) or better is required in all these courses.

##### Core Requirements (46 hrs)

COP 3502C	Computer Science I	3 hrs
CIS 3360	Security in Computing	3 hrs
CAP 3104	Foundations of HCI	3 hrs
CGS 3269	Computer Architecture Concepts	3 hrs
CNT 3004	Computer Network Concepts	3 hrs
CIS 3003	Fundamentals of Information Technology	3 hrs
CIS 4524	Managing IT Integration	3 hrs
CNT 4714	Enterprise Computing	3 hrs
CIS 4004	Web-Based Information Technology	3 hrs
CNT 4703C	Design and Implementation of Computer Communication Networks	3 hrs
COP 4910	Frontiers in Information Technology	3 hrs
PHI 3626	Advanced Ethics in Science and Technology	3 hrs
CGS 3763	Operating System Concepts	3 hrs
CNT 4603	System Administration and Maintenance	3 hrs
PHY 2054C	College Physics II	4 hrs

##### Support Courses (6 hrs)

- A "C" (2.0) or better is required in all these courses.

##### Select 1: (3 hrs)

ENC 4293	Documentation and the Collaborative Process or	3 hrs
ENC 4265	Writing for the Computer Industry or	3 hrs
ENC 4414	Writing and Hypertext or	3 hrs
ENC 4415	Digital Rhetorics and The Modern Dialectic or	3 hrs
ENC 4298	Technical Communication for the Virtual Workplace or	3 hrs
ENC 4416	Writing in Digital Environments or	3 hrs
ENC 4262	International Technical Communication or	3 hrs
ENC 4215	Technical Publication and Project Management	3 hrs

##### Select 1: (3 hrs)

ENC 3241	Writing for the Technical Professional or	3 hrs
ENC 3250	Professional Writing	3 hrs

#### 5. Restricted Electives (6 hrs)

- Six hours of any 3000-level (or higher) courses offered by Computer Science and Information Technology programs. CGS 4941 can be used as a restricted elective.

- A "C" (2.0) or better is required in all these courses.

#### 6. Capstone Requirements

- None

#### 7. 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

## UCF Degree Programs

### 8. Electives

- Remaining hours needed to meet minimum of 120 hours for graduation should be met with Free Electives.

### 9. Additional Requirements

- An "S" grade is required in all these courses.

#### Major specific support courses

CIS 3990	IT Career and Academic Advising I	0 hrs
CIS 4991	IT Career and Academic Advising II	0 hrs
CIS 3921	Careers in IT	1 hr

### 10. Required Minors

- None

### 11. Departmental Exit Requirements

- None

### 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

#### Honors In Major

- None

#### Related Programs

- Computer Engineering
- Computer Science

#### Certificates

- None

#### Related Minors

- Computer Science
- Secure Computing and Networks

#### Advising Notes

- None

#### Transfer Notes

- Grades below "C" (2.0) are not accepted
- 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

- None

#### Plan of Study

#### Freshman Year - Fall 12 hrs

ENC 1101	Composition I	3 hrs
SPC 1603C	Fundamentals of Technical Presentations	3 hrs
COP 3223C	Introduction to Programming with C	3 hrs

#### Select 1: 3 hrs

MAC 1105C	College Algebra or	3 hrs
MAC 1140C	Pre-Calculus Algebra	3 hrs

#### Freshman Year - Spring 15 hrs

ENC 1102	Composition II	3 hrs
MAC 1114C	College Trigonometry	3 hrs
COP 3502C	Computer Science I	3 hrs
ECO 2013	Principles of Macroeconomics	3 hrs
PSY 2012	General Psychology	3 hrs

#### Sophomore Year - Fall 16 hrs

MAD 2104	Foundations of Discrete Math	3 hrs
COP 3330	Object Oriented Programming	3 hrs
PHY 2053C	College Physics I	4 hrs
CGS 2545C	Database Concepts	3 hrs
GEP		3 hrs

#### Sophomore Year - Spring 16 hrs

CGS 3269	Computer Architecture Concepts	3 hrs
STA 2023	Statistical Methods I	3 hrs
CIS 3003	Fundamentals of Information Technology	3 hrs
GEP		3 hrs
Free Elective		3 hrs
CIS 3921	Careers in IT	1 hr
CIS 3990	IT Career and Academic Advising I	0 hrs

### Junior Year - Fall

CAP 3104	Foundations of HCI	3 hrs
PHY 2054C	College Physics II	4 hrs
CNT 3004	Computer Network Concepts	3 hrs
CIS 3360	Security in Computing	3 hrs

#### Select 1: 3 hrs

ENC 3241	Writing for the Technical Professional or	3 hrs
ENC 3250	Professional Writing	3 hrs

### Junior Year - Spring 15 hrs

CIS 4524	Managing IT Integration	3 hrs
PHI 3626	Advanced Ethics in Science and Technology	3 hrs

GEP		3 hrs
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CGS 3763	Operating System Concepts	3 hrs
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#### Select 1: 3 hrs

ENC 4265	Writing for the Computer Industry or	3 hrs
ENC 4293	Documentation and the Collaborative Process or	3 hrs

ENC 4414	Writing and Hypertext or	3 hrs
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ENC 4415	Digital Rhetorics and The Modern Dialectic or	3 hrs
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ENC 4298	Technical Communication for the Virtual Workplace or	3 hrs
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ENC 4416	Writing in Digital Environments or	3 hrs
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ENC 4262	International Technical Communication or	3 hrs
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ENC 4215	Technical Publication and Project Management	3 hrs
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### Senior Year - Fall 15 hrs

CNT 4703C	Design and Implementation of Computer Communication Networks	3 hrs
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CIS 4004	Web-Based Information Technology	3 hrs
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Restricted Elective		3 hrs
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Free Elective		3 hrs
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CNT 4603	System Administration and Maintenance	3 hrs
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CIS 4991	IT Career and Academic Advising II	0 hrs
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### Senior Year - Spring 13 hrs

Restricted Elective		3 hrs
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Free Elective		4 hrs
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COP 4910	Frontiers in Information Technology	3 hrs
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CNT 4714	Enterprise Computing	3 hrs
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#### Program Academic Learning Compacts

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

[http://www.oeas.ucf.edu/aic/academic\\_learning\\_compacts.htm](http://www.oeas.ucf.edu/aic/academic_learning_compacts.htm)

#### Equipment Fees

- Part-Time Student: \$23 per term
- Full-Time Student: \$47 per term