

COMPUTER INFORMATION TECHNOLOGY, ASSOCIATE IN SCIENCE

Program Code: CIAS

Meta-Major: STEM

Location(s): Cocoa, Melbourne, Palm Bay, Titusville, Online

Delivery Method(s): On-Campus, Hybrid

Previous Degree Required: HS Diploma

Eligible for Financial Aid: Yes

Additional Limited Access Application Process Required: No

Program Testing Requirements: CPT - Common Placement Test (PERT, ACCUPLACER, SAT, ACT)

Classification of Instructional Programs (CIP) Code: 11.0103

Florida Department of Education CIP Code: 1511010307

The Computer Information Technology A.S. degree program has the following associated College Credit Certificates (CCCs):

- [Geographical Information Systems CCC](#)
- [Help Desk Support Technician CCC](#)

and this related certificate:

- [Oracle Certified Database Administrator CCC](#)

This program is designed to prepare students for careers in the business application of computers. Students choose one of the three specializations: Help Desk, Geographical Information Systems (GIS), or Database Administrator. The core courses provide training in the basic concepts, which underlie computing technology, computer programming, database techniques, and analysis and design and common user applications. Technical electives provide students with the opportunity to further their knowledge in the specific area of choice.

The **Database Administrator** specialization provides the foundation for obtaining the industry recognized certification in Oracle. Typical entry-level positions for graduates include positions working under Database Administrators in large corporations, state and federal government agencies, and Internet-based companies.

The **Help Desk** specialization provides the student with experience to apply knowledge with companies that have a continuing need for trained customer support specialists, to staff the help desk answering customer problem calls, and providing timely assistance in solving technical problems.

The **Geographic Information Systems (GIS)** specialization provides students the skills required to work on and/or build advanced Geographic Information Systems (GIS)/ Remote Sensing (RS) projects. Program topics include displaying, managing, querying, symbolizing, and creating geospatial data using concepts that include spatial variables, scale, map projection, and map coordinate systems.

[Visit the program page for more details and how to apply.](#)

Program Requirements

Code	Title	Credit Hours
General Education Courses		
ENC 1101	Composition 1	3
	Humanities Requirement	3
	Mathematics Requirement	3
	Natural Science Requirement	3
	Social/Behavioral Science Requirement	3
Computer Programs - Core Courses		
CET 1176	Computer Maintenance and Repair	3
CGS 1000	Exploring Digital Technology	3
CGS 2100	Microcomputer Applications	3
COP 1000	Principles of Programming	3
COP 2700	Database Techniques	3
CTS 1142	Information Technology Project Management	3
CTS 1329	Microsoft Client O/S	3
CTSC 1134	Network+	3
Specializations		
Select one specialization from below:		21
	Database Administration Specialization	
	Geographic Information Systems (GIS) Specialization	
	Help Desk Specialization	
Total Credit Hours		60

Technical Electives

Code	Title	Credit Hours
CGS 2571	Microcomputer Applications-Advanced	3
CGS 2941	Internship	1-3
CGS 2948	Service-Learning Field Studies 1	1
CIS 2321	Systems Analysis and Design	3
COP 2822	Web Page Authoring	3
CTS 1321	Linux Networking and System Administration	3
CTSC 2120	Network Security Fundamentals	3
ENC 2210	Technical Writing	3
GIS 2948	Service-Learning Field Studies 1	1
MAT 1033	Intermediate Algebra	3

Learning Outcomes: Computer Information Technology A.S.

1. Differentiate between storage devices and storage media
 - *Supports Core Ability: Process Information*
2. Identify computer viruses such as Worms, and Trojan Horses
 - *Supports Core Ability: Process Information*
3. Organize data for entry into a spreadsheet application
 - *Supports Core Ability: Process Information*
4. Create constraints enforcing data integrity in relational databases
 - *Supports Core Ability: Process Information*
5. Code an SQL statement that selectively lists rows and columns from two or more joined tables
 - *Supports Core Ability: Think Critically and Solve Problems*
6. Code an SQL statement that uses aggregate functions

- *Supports Core Ability: Think Critically and Solve Problems*
- 7. Install an Operating System
 - *Supports Core Ability: Think Critically and Solve Problems*
- 8. Classify types, characteristics, and uses of common components on a motherboard
 - *Supports Core Ability: Process Information*
- 9. Explain a scope statement framework
 - *Supports Core Ability: Process Information*
- 10. Describe a project charter framework
 - *Supports Core Ability: Process Information*