

EASTERN FLORIDA STATE COLLEGE

COMPUTER INFORMATION TECHNOLOGY
ASSOCIATE IN SCIENCE DEGREE (CIAS)
OPTIONS in Database, Help Desk and Management Information Systems
Plus College Credit Certificates in:
HELP DESK & ORACLE CERTIFIED DATABASE ADMINISTRATOR
[2017 – 2018 College Catalog](#) www.easternflorida.edu/go/careertech
 META-MAJOR: Science, Technology, Engineering, Math (STEM)

PROGRAM CONTACT:

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Eastern Florida State College's Computer Information Technology program prepares students for careers in the business applications of computers. Students choose one of three options: Help Desk, Management Information Systems (MIS) or Database Administrator. The [core courses](#) provide training in the basic concepts that underlie computing technology, computer programming, database techniques, analysis and design and common user applications.

Courses in this degree also lead to College Credit Certificates in **ORACLE Certified Database Administrator** and **Help Desk Specialist**. Students may choose to complete a certificate first and then move to the AS degree. Courses in the certificates will lead to the AS degree in Computer Information Technology.

Advising Notes:

It is important to register for technical courses when offered. Many technical courses are only offered only *once a year*. Improper planning may cause delay of graduation by three semesters! Technical courses should be taken in order of skill level as noted 1, 2, and 3. General Education courses are offered every term and on every campus, including online/distance learning.

Bachelor's Degree at Eastern Florida – Courses in the certificate programs **are appropriate** for the 21 credit hours of the Technical Concentration component of the Bachelors of Applied Science degree at Eastern Florida State College.

LEGEND:

◆ = Course is a pre-requisite for another course and "C" or better is needed. These courses should be taken first.

LEVEL

1 = Introductory Level Skills

2 = Intermediate Level Skills

3 = Advanced Level Skills

CAMPUS

If only taught at specific campus: **B**= Palm Bay,

M = Melbourne, **C** = Cocoa, **T** = Titusville, **P** = Patrick Center

and **e** = online

COMPUTER INFORMATION TECHNOLOGY AS Degree Requirements **60 TOTAL Credits**

Select from **THREE** options: Database, Help Desk and Management Information Systems

GENERAL EDUCATION COURSES			Credits 15		
	ENC 1101	Composition I	3		
	SPC 2608	Fundamentals of Speech Communication	3		
		Computation Requirement (<i>MAT 1033 or higher</i>)	3		
		Humanities Requirement	3		
		Social/Behavioral Science Requirement	3		
COMPUTER PROGRAMS - CORE COURSES			Credits 21	LEVEL	CAMPUS
◆	CGS 1000	Introduction to Computers	3	1	B C M T P e
	CET 1176	Computer Maintenance and Repair (<i>Prerequisite: CGS 1000</i>) (<i>See page 3 for Aligned Industry Certification Credit Options</i>)	3	1	B C M T
◆	CGS 2100	Microcomputer Applications (<i>See page 3 for Aligned Industry Certification Credit Options</i>)	3	1	B C M T P e
◆	COP 2700	Database Techniques (<i>Prerequisite: CGS 2100</i>)	3	2	C M B e
	CTS 1142	Information Technology Program Management (<i>Prerequisite: CGS 2100</i>)	3	2	B C M e
◆	CTS 1329	Windows Client Operating System (<i>See page 3 for Aligned Industry Certification Credit Options</i>)	3	1	B C M
◆	CTSC 1134	Network + (<i>See page 3 for Aligned Industry Certification Credit Options</i>)	3	2	B C M
SELECT ONE OPTION FROM BELOW					
DATABASE ADMINISTRATOR OPTION (CIASDBA)			Credits 24	LEVEL	CAMPUS
◆	COP 1000	Principles of Programming (<i>Prerequisite: CGS 1000</i>)	3	2	B C M T e
	COP 2812	Introduction to XML (<i>Prerequisites: CGS 2100 or COP 2822</i>)	3	2	e
	CTS 1321	Linux Networking and System Administration (<i>Prerequisite: CGS 1000</i>)	3	2	B C M
◆	CTS 2440	Introduction to Oracle SQL and PL/SQL (<i>Prerequisites: COP 2334 and COP 2700</i>)	3	2	e
	CTS 2441	Oracle Database Fundamentals I (<i>Prerequisite: CTS 2440</i>)	3	3	e
◆	CTS 1383	Windows Server Operating System (<i>Prerequisite: CTS 1171 or CTS 1329</i>) (<i>See page 3 for Aligned Industry Certification Credit Options</i>)	3	2	C M
Technical Electives (see list below)			6		

HELP DESK OPTION (CIASHDS)			Credits 24	LEVEL	CAMPUS
	COP 1000	Principles of Programming	3	2	B C M T e
	CTS 1154	Help Desk Technical Support (<i>Prerequisite: CGS 2100</i>)	3	2	e
	CTS 1155	Help Desk Customer Support (<i>Prerequisite: CGS 2100</i>)	3	2	C e
	CTS 1321	Linux Networking and System Administration (<i>Prerequisite: CGS 1000</i>)	3	2	B C M
◆	CTSC 1383	Windows Server Operating System (<i>Prerequisite: CTS 1171 or CTS 1329</i>) (<i>CompTIA Server+ Credit Option</i>)	3	2	C M
Technical Electives (see list below)			9		

MANAGEMENT INFORMATION SYSTEMS OPTION (CIAS)			Credits 24	LEVEL	CAMPUS
	COP 1000	Principles of Programming (<i>Prerequisite: CGS 1000</i>)	3	2	B C M T e
◆	ACG 2021	Financial Accounting	3	2	B C M T e
	ACG 2071	Managerial Accounting (<i>Prerequisite: ACG 2021</i>)	3	2	B C M T e
	GEB 1011	Introduction to Business	3	1	B C M T e
	MAN 2021	Business Management Principles	3	1	C M e
Technical Electives (see list below)			9		
TOTAL credit hours for the AS degree in Computer Information Technology (select one of three options) : AS Degree includes courses in General Education, Core, Option and Elective courses			60		

TECHNICAL ELECTIVES FOR COMPUTER INFORMATION TECHNOLOGY A.S. DEGREE			Credits	LEVEL	CAMPUS
	CGS 2571	Microcomputer Applications Advanced (<i>Prerequisite: CGS 2100</i>)	3	2	e
	CGS 2941	Internship (<i>Work site varies</i>) Contact the Program Specialist for more information.	1-3	3	
	CIS 2321	Systems Analysis and Design (<i>Prerequisite: COP 1000 or COP 1332</i>)	3	2	e
◆	COP 2822	Web Page Authoring (<i>Prerequisite: CGS 2100</i>)	3	2	B C M T e
	CTS 1321	Linux Networking and System Administration (<i>Prerequisite: CGS 1000</i>)	3	2	B C M
	CTSC 2120	Networking Security Fundamentals (<i>Prerequisite: CTSC 1134</i>)	3	1	C M
	ENC 2210	Technical Writing (<i>Prerequisite: ENC 1101</i>)	3	1	E
	COP 2984	Service Learning Field Studies I	1		BCMT
	ETDC 1540	Civil Drafting	4		CM
	GRAC 2150	Raster Graphics	3		CM
	TARC 1120	Architectural Drafting	4		CM

Embedded College Credit Certificates within Computer Information Technology Associate in Science Degree

Courses in the certificates will lead to the AS degree in Computer Information Technology. Start with certificate courses and build towards completing the A.S. degree in Computer Information Technology. **No placement test required for College Credit Certificates (CCC)** and no General Education courses are part of CCC Programs.

HELP DESK SPECIALIST COLLEGE CREDIT CERTIFICATE (HDCC) 18 CREDITS					
<i>*Financial Aid Eligible</i>					
			Credits	Level	Campus
CET 1176	Computer Maintenance and Repair (<i>Prerequisite: CGS 1000</i>) (<i>See page 3 for Aligned Industry Certification Credit Options</i>)		3	1	B C M T
CTS 1154	Help Desk Technical Support (<i>Prerequisite: CGS 2100</i>)		3	2	e
CTS 1155	Help Desk Customer Support (<i>Prerequisite: CGS 2100</i>)		3	2	C e
CTS 1329	Windows Client Operating System (<i>See page 3 Aligned Industry Certification Credit Options</i>)		3	1	B C M
CTSC 1134	Network + (<i>See page 3 for Aligned Industry Certification Credit Options</i>)		3	2	B C M
CTS 1383	Window Server Operating System (<i>Prerequisite: CTS 1171 or CTS 1329</i>) (<i>See page 3 for Aligned Industry Certification Credit Options</i>)		3	2	C M

ORACLE CERTIFIED DATABASE ADMINISTRATOR COLLEGE CREDIT CERTIFICATE (OACC) 15 CREDITS					
<i>*Financial Aid Eligible</i>					
			Credits	Level	Campus
COP 2812	Introduction to XML (<i>Prerequisite: CGS 2100 and COP 2822</i>)		3	2	e
CTS 1321	Linux Networking and System Administration (<i>Prerequisite: CGS 1000</i>)		3	2	B C M
CTS 2440	Introduction to Oracle SQL and PL/SQL (<i>Prerequisites: COP 2334 and COP 2700</i>)		3	2	e
CTS 2441	Oracle Database Fundamentals I (<i>Prerequisite: CTS 2440</i>)		3	3	e
CTS 1383	Window Server Operating System (<i>Prerequisite: CTS 1171 or CTS 1329</i>) (<i>See page 3 for Aligned Industry Certification Credit Options</i>)		3	2	C M

GEOGRAPHICAL INFORMATION SYSTEMS COLLEGE CREDIT CERTIFICATE (GICC) 21 CREDITS				
*Financial Aid Eligible * Not a track option				
		Credits	Level	Campus
ETDC 1540	Civil Drafting	4	1	C M
GIS 2040	Fundamentals of Geographic Information Systems <i>(This course is not a part of the AS/CIAS degree)</i>	3	2	C
GIS 2047	Applications of GIS, GPS, and Remote Sensing <i>(This course is not a part of the AS/CIAS degree) (Prerequisite: GIS 2040)</i>	3	2	C
GIS 2060	Advanced Geographical Information Systems <i>(This course is not a part of the AS/CIAS degree) (Prerequisite: GIS 2047)</i>	3	2	
GRAC 2150	Raster Graphics	3	2	C M
TARC 1120	Architectural Drafting	4	1	C M
CGS 2941	Internship	1-3	2	E
Or SOW 1051	Human Service Experience 1 <i>(This course is not a part of the AS/CIAS degree)</i>	1	1	B C

It is the responsibility of the student to meet the established degree requirements for the degree or certificate being sought at Eastern Florida State College. Specific requirements (minimum grades, prerequisites, GPA, etc.) are indicated in the [2017 – 2018 College Catalog](#).

Internships

Internships are available for students in specific Career & Technical Programs. Students who have declared a major and who have completed courses that demonstrate skills and knowledge in the technical area will be considered for internships. Contact the Program Specialist for more information on the internship process and if you qualify.

Credit for Adult Experiential Learning or CAEL

Do you have extensive experience? If so you may be able to receive college credit through Credit for Adult Experiential Learning or CAEL. Contact the Life-Experience Acceleration Path (LEAP) office at 321-433-7099 or go to www.easternflorida.edu/admissions/registrar-office/credit-evaluation/cael-portfolio-credit.cfm.

Industry Certification

Industry certifications have become an important part of the workforce. People who have earned an industry certification have demonstrated they have specific knowledge in technical areas. Employers are seeking individuals with skill sets that will help their organization compete locally and globally. Eastern Florida State College is a closed testing site offering testing only to Eastern Florida State College students and alumni. EASTERN FLORIDA STATE COLLEGE is an authorized testing center for CompTIA, CISCO, Microsoft Office Systems (MOS) and the Manufacturing Skills Standard Council (MSSC) industry certifications. More information can be found online at www.easternflorida.edu/academics/career-technical-programs/industry-certs/

If you already hold a related industry certification:

Per the Florida Department of Education Statewide Articulation Agreement--- Industry Certification to AAS/AS Degree Program, Eastern Florida State College will award postsecondary credit as listed below to eligible students who have the designated industry certification. In addition to the FLDOE agreements, EASTERN FLORIDA STATE COLLEGE will award credit to specific additional programs. *The student will not be charged tuition or fees for the postsecondary credit awarded through this agreement. A minimum of 25% of semester hours of degree requirements must be earned at Eastern Florida State College.* More information is found online at <http://www.easternflorida.edu/admissions/registrar-office/credit-evaluation/articulation-agreements.cfm>

Eligibility Requirements

Industry certification must NOT BE EXPIRED at the time the credit will be awarded, and the certification **must** have been issued within three years prior to enrollment in the program. Student **must** be currently enrolled in the AS, HDCC or OACC and the major **must** reflect one of these programs. More information on Assessment of Prior Learning can be found at <http://www.easternflorida.edu/admissions/registrar-office/credit-evaluation/articulation-agreements.cfm>

INDUSTRY CERTIFICATION	COURSES
Microsoft Office Systems Bundle 2013– passing Word, Excel and Access	CGS 2100 <i>Microcomputer Applications</i>
CompTIA A+	CET 1176 <i>Computer Maintenance and Repair</i>
CompTIA Network+	CTSC 1134 <i>Network+</i>
CompTIA Server+	CTS 1383 <i>Windows Server Operating System</i>
MCIT Certified IT Professional- Consumer Support Technician	CTS 1329 <i>Windows Client Operating System</i>
MCIT Certified Professional – Enterprise Support Technician	CTS 1329 <i>Windows Client Operating System</i>
Microsoft Certified Desktop Support Technician	CTS 1329 <i>Windows Client Operating System</i>
Microsoft Certified Systems Engineer	CTS 1329 <i>Windows Client Operating System</i> CTS 1383 <i>Windows Server Operating System</i>

Employment in the Field

The TOL for Region 13 (Brevard County) lists the following jobs that are related to the Computer Information Technology degree program:

Computer and Information Systems Manager (HSHW)

Computer Occupations, All Other (HSHW)

Computer Programmers (HSHW)

Computer Systems Analysts (HSHW)

Computer User Support Specialists (HSHW)

Database Administrators (Database Security Admin) (HSHW)

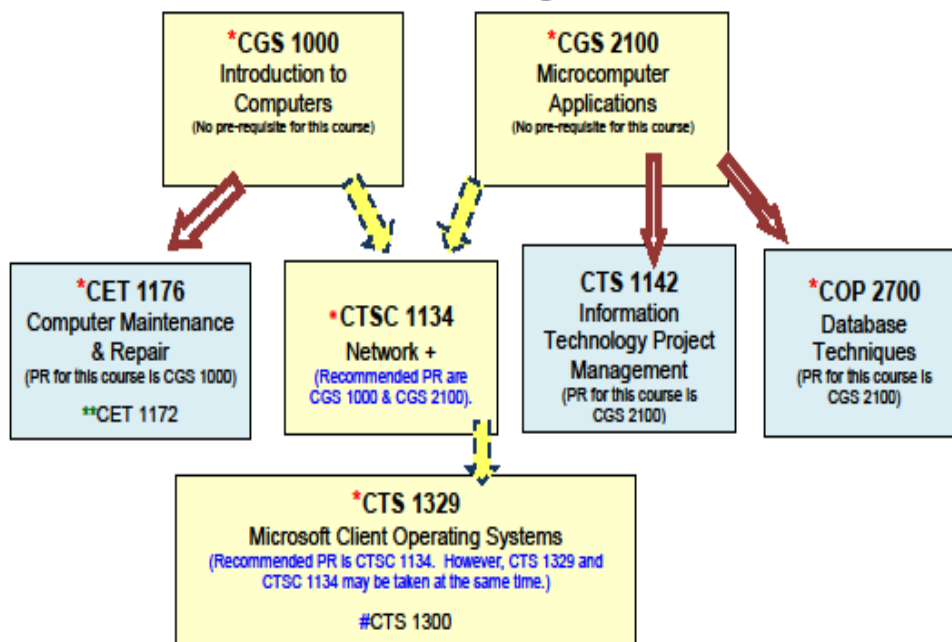
Current students can view their degree progress at www.easternflorida.edu/academics/academic-support/mygps.

Read more about careers in Computer Information Technology at **Career Coach** (<https://easternflorida.emsicareercoach.com/>).

Explore careers and make a plan for education at www.floridashines.org/find-a-career/mycareershines.

Common Core for Computer Technology AS Degrees

To include Pre-Requisite (PR) and Recommended Course Flow Chart
Computer Information Technology (CIAS), Computer Programming & Analysis (CPAS)
And Network Systems Technology (NSAS)
As of 2017 - 2018 Catalog



* Course is a pre-requisite for many other computer courses. Grade of "C" or higher is required for most pre-requisite courses. Refer to the EFSC Catalog to identify courses with this requirement.
#CTS 1329 will replace CTS 1300 starting in the Fall 2016 term.

Industry certification testing with articulated credit agreements are available for: CompTIA Network+/CTSC 1134 and CompTIA A+/CET 1176 and Microsoft Office Specialist 2013 (MOS).

If a student passes the MOS Bundle in Word, Excel and Access then credit for CGS 2100 can be awarded. For more information on industry certification agreements visit <http://www.easternflorida.edu/academics/career-technical-programs/assessment-prior-learning/articulation-agreements.cfm>.

Eastern Florida State College
www.easternflorida.edu/go/careertech

Computer Information Technology AS 60 Credits

Courses are guaranteed to be offered in the designated term. Full time students who follow the prescribed plan of study below should complete the program within two years. This plan does not include any required developmental education or prerequisite courses.

FALL 1

Course	Course Title	Subject Area	Credits	Notes:
ENC 1101	Composition 1	General Ed	3	
	Mathematics Requirement	General Ed	3	
CGS 1000	Introduction to Computers	Core Course	3	
CGS 2100	Microcomputer Applications	Core Course	3	

SPRING 1

Course	Course Title	Subject Area	Credits	Notes:
SPC 2608	Fundamentals of Speech Communication	General Ed	3	
	Social/Behavioral Science Requirement	General Ed	3	
CET 1176	Computer Maintenance and Repair	Core Course	3	
COP 2700	Database Techniques	Core Course	3	
CTSC 1134	Network +	Core Course	3	

SUMMER 1

Course	Course Title	Subject Area	Credits	Notes:
	Humanities Requirement	General Ed	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	

FALL 2

Course	Course Title	Subject Area	Credits	Notes:
CTS 1329	Microsoft Client O/S	Core Course	3	
CTS 1142	Information Technology Project Management	Core Course	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	

SPRING 2

Course	Course Title	Subject Area	Credits	Notes:
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	
	Database Admin, Help Desk, or MIS Specialization course^	Specialization	3	

^Total Specialization Credits Required: 24

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Brevard Public School students may view Career & Technical Education programs of study at http://www.edline.net/pages/Brevard_County_Schools/Departments/Departments_A-J/Career_and_Technical_Education/Programs_of_Study. See how to prepare for careers and college.

Eastern Florida State College is dedicated to providing a nondiscriminatory environment which promotes equal access, equal educational opportunity and equal employment opportunity to all persons regardless of age, race, national origin, color, ethnicity, genetics, religion, sex, gender preference, pregnancy, disabilities, marital status, veteran status, ancestry or political affiliation in its programs, activities, or employment.

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