About the Program

The Associate in Science (A.S.) Degree in Computer Information Technology prepares students to enter or advance in the field of information technology. Students may choose, via elective courses, to focus one of the following tracks: Software Development, Web, or Database. For more information about this program, visit fscj.edu/2153.

Program Requirements

This program requires a **minimum of 60 credit hours.** Total program hours may vary based on the student's individual academic degree plan. This program **is eligible** for financial aid.

This program includes a **Mathematical Thinking in Context math pathway.** This pathway is intended for students in the broadest range of programs of study. In this pathway, students will explore a variety of mathematical concepts utilizing multiple ways of thinking to formulate and solve problems in context.

An internship is a required part of this degree program.

Placement Testing

College placement testing assesses incoming students' skill levels in English, mathematics, and reading. Students are exempt from placement testing if they meet any of the following conditions:

- Entered the ninth grade in a Florida public school in 2003 or after and graduated from a Florida Public High school with a standard high school diploma
- Are currently serving as an active-duty member of any branch of the U.S. Armed Services
- Have received an A.A., A.S., A.A.S. or higher from an accredited institution
- Have completed college-level courses in English and mathematics
- Have completed upper-level developmental courses in English/Reading and Mathematics
- Are a Transient student (Florida Shines or transient letter from home institution is required)

All other students in this program must take a placement test. Students who place into **developmental education courses** are required to complete designated developmental education courses with a grade of C or higher regardless of program of study and are also required to take one of two student success strategies courses. For additional information, visit catalog.fscj.edu/academics/developmental-education-programs or speak with an advisor.

Educational Pathways

Technical certificates are available within this degree program. You may pursue the A.S. degree and earn technical certificates while completing the requirements for the degree or pursue one or more certificates to develop or upgrade your skills in a particular field. **Contact an advisor** to determine the career education path that is best for you.

⇒ The **Computer Programming Specialist** Technical Certificate includes 28 credit hours from the Computer Information Technology A.S. degree and **is eligible** for financial aid. To learn more about this certificate, visit fscj.edu/academics/programs/certs/6956.

⇒ The **Database Development Specialist** Technical Certificate includes 27 credit hours from the Computer Information Technology A.S. degree and **is not eligible** for financial aid. To learn more about this technical certificate, visit fscj.edu/academics/programs/certs/6955.

⇒ The **Information Technology Analysis** Technical Certificate includes 27 credit hours from the Computer Information Technology A.S. degree and **is not eligible** for financial aid. To learn more about this technical certificate, visit fscj.edu/academics/programs/certs/6281.

⇒ The **Information Technology Support Specialist** Technical Certificate includes 18 credit hours from the Computer Information Technology A.S. degree and **is not eligible** for financial aid. To learn more about this certificate, visit fscj.edu/academics/programs/certs/6280.

⇒ The **Web Development Specialist** Technical Certificate includes 25 credit hours from the Computer Information Technology A.S. degree and **is not eligible** for financial aid. To learn more about this technical certificate, visit fscj.edu/academics/programs/certs/6954.

Associate in Science Degree Graduation Requirements

☐ Fulfill all academic requirements for the chosen program of study as outlined in the Florida State College at Jacksonville catalog and curriculum.

☐ Earn a cumulative grade point average of 2.0 (C) at Florida State College at Jacksonville in courses eligible toward the Associate in Science degree programs, excluding developmental education courses (A.S. Florida State College at Jacksonville GPA).

☐ Earn an all-college cumulative grade point average of 2.0 (C) on a 4.0 scale on all courses attempted. This requirement includes Florida State College at Jacksonville college-credit semester hours and transferred credits (excluding developmental education) in lower division courses.

☐ Complete a minimum of 25 percent of the total hours required for the program in residence at Florida State College at Jacksonville. Credit by examination and credit for prior learning do not count toward this residency requirement.

☐ Complete the required semester hours, as specified by the degree, of which a minimum of 15 semester hours must be General Education requirements.

☐ Demonstrate competency in civic literacy. Competency is demonstrated by:
  ☐ Completing of one of three civic literacy courses (AMH 2010, AMH 2020 or POS 2041) with a grade of C or higher, and
  ☐ Achieving of the standard score on a state-approved assessment.

☐ Earn a grade of a C or higher in each course used to satisfy the general education requirements and any other area designated with a C or higher requirement.

☐ Fulfill all obligations, financial or otherwise, to the College before graduating.

Catalog Year

This document is prepared for students with a **2025-26 College Catalog year** who have not tested into developmental education courses. **Students who enter under the 2025-26 catalog** will be assigned to the degree or certificate requirements in effect during the 2025-26 academic year. The student's assigned catalog year will remain in effect as long as the student maintains continuous enrollment. Changes to requirements as mandated by law or by rule of the District Board of Trustees may supersede this provision.

To maintain continuous enrollment, a student must have registration for, and successful completion of, at least one course within a three-term period. After three consecutive terms of no enrollment, the student will be discontinued from the current program of study and will need to apply to FSCJ to reenter under the same program of study. Upon readmission, the student will be assigned to the current catalog of record in the chosen program.

Curriculum

All courses in this program must be completed with a grade of C or higher.

Sample Roadmap

Terms Offered are subject to change. Please verify course availability at fscj.edu/schedules. Prior to enrolling in classes, please meet with an advisor for specific guidance about your individual academic degree plan.

Term 1

☐ *Select from* **ENC 1101 - English Composition I**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
or **ENC 1101C - English Composition I Enhanced**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.
or **ENC 1102 - Writing About Texts**, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.
General Education Communication.   Grade Earned: _____

☐ **CTS 1133C - Software Configuration**, Credit Hours: 3. Industry Certifications: CompTIA A+, CompTIA IT Fundamentals.
Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **CTS 1131C - Hardware Configuration**, Credit Hours: 3. Industry Certifications: CompTIA A+, CompTIA IT Fundamentals.
Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **CGS 1100C - Microcomputer Applications for Business and Economics**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

Term 2

☐ **General Education Natural Sciences State Core course**, Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **COP 1000C - Introduction to Computer Programming**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ *Select from* **CNT 2001C - Computer Networks and Telecommunications**, Credit Hours: 3.
Industry Certifications: CompTIA Network +. Terms Offered: Fall, Spring, Summer.
or **CET 2600C - Network Fundamentals (Cisco 1)**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **General Education Mathematics State Core course**, Credit Hours: 3-5.
Note: Students who select COP 2073C to satisfy Professional Elective coursework are recommended to take STA 2023
prior to enrollment into the course. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

Term 3

☐ **General Education Humanities State Core course**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **CTS 1154C - Technical Support**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **CTS 1120C - Fundamentals of Information Security**, Credit Hours: 3. Industry Certifications: CompTIA Security+.
Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **Professional Elective course**, Credit Hours: 3-4. Note: Students who select a 2 credit hour course must complete an additional
Professional Elective course to satisfy the minimum credit hours (9) for Professional Elective Coursework.   Grade Earned: _____

Term 4

☐ **General Education Social and Behavioral Sciences: Civic Literacy course**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **CTS 2437C - SQL Server I - Fundamentals**, Credit Hours: 3. Industry Certifications: MCSA - SQL Server 2012.
Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **COP 2822C - Web Technologies**, Credit Hours: 4. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **Professional Elective course**, Credit Hour: 2-4. Note: Students who select a 2 credit hour course must complete an additional
Professional Elective course to satisfy the minimum credit hours (9) for Professional Elective Coursework.   Grade Earned: _____

Term 5

☐ **Professional Elective course**, Credit Hours: 2-4. Note: Students who select a 2 credit hour course must complete an additional
Professional Elective course to satisfy the minimum credit hours (9) for Professional Elective Coursework.   Grade Earned: _____

☐ **MAN 2582 - Introduction to Project Management**, Credit Hours: 3. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

☐ **CIS 2321C - Information Systems**, Credit Hours: 3. Terms Offered: Fall, Spring.   Grade Earned: _____

☐ **CIS 1942 - Internship**, Credit Hours: 2. Terms Offered: Fall, Spring, Summer.   Grade Earned: _____

Course Requirements

Prerequisites, corequisites, and conditions for any course are subject to change. Students must meet the prerequisite and corequisite requirements of any course at the time the student attempts to register for that course. If you have questions about the prerequisites, corequisites, or conditions for a course, please contact any academic advisor.

General Education Communication Courses

Complete one of the following courses.

ENC 1101 - English Composition I, Credit Hours: 3. *State Core course.* Prerequisite(s): Satisfactory score on the placement test for non-exempt students only. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Effective Spring 2014, students who entered the ninth grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a standard Florida high school diploma, or students who are serving as active duty members in any branch of the United States Armed Services, will not be required to take the common placement test (P.E.R.T.) or to enroll in developmental education at any Florida College System institution, including Florida State College at Jacksonville (per Senate Bill 1720, State Board Rule 6A-10.0315). These students shall be considered exempt from common placement testing and developmental education instruction, and may accordingly enroll directly in ENC 1101 or ENC 1101C. For placement in any communications course beyond ENC 1101 or ENC 1101C, exempt students will be required to take the common placement test. Effective Fall 2022, students who earn a grade of C or higher will be automatically awarded the digital badge in Fundamentals of Written Communication. Terms Offered: Fall, Spring, Summer.

ENC 1101C - English Composition I Enhanced, Credit Hours: 4. *State Core course.* Prerequisite(s): Satisfactory score on the placement test for non-exempt students only. Corequisite(s): None. Conditions: This course fulfills category A of students' General Education requirements in Communications. The additional one-credit hour of supplemental instruction and practice will appear as an Associate in Arts elective on students' college transcripts. This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Effective Spring 2014, students who entered the ninth grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a standard Florida high school diploma, or students who are serving as active duty members in any branch of the United States Armed Services, will not be required to take the common placement test (P.E.R.T.) or to enroll in developmental education at any Florida College System institution, including Florida State College at Jacksonville (per Senate Bill 1720, State Board Rule 6A-10.0315). These students shall be considered exempt from common placement testing and developmental education instruction and may accordingly enroll directly in ENC 1101 or ENC 1101C. For enrollment in any communications course beyond ENC 1101/ENC 1101C, exempt students will be required to take the common placement test. This course is recommended for Associate in Arts degree seeking students. Associate in Science degree seeking students are advised to take ENC 1101 to avoid concerns regarding financial aid and excess hour surcharges. Effective Fall 2022, students who earn a grade of C or higher will be automatically awarded the digital badge in Fundamentals of Written Communication. Terms Offered: Fall, Spring, Summer.

ENC 1102 - Writing About Texts, Credit Hours: 3. Prerequisite(s): ENC 1101 or ENC 1101C each with a grade of C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

General Education Humanities Courses

Complete one of the following courses.

ARH 2000 - Art in the Humanities, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

HUM 2020 - Topics in the Humanities, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. This course cannot be repeated for General Education or Elective Credit, regardless of the course topic, except for grade forgiveness purposes. Terms Offered: Fall, Spring, Summer.

LIT 2000 - Literature in the Humanities, Credit Hours: 3. *State Core course.* Prerequisite(s): ENC 1101 or ENC 1101C each with a grade of C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

MUL 2010 - Music in the Humanities, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

PHI 2010 - Philosophy in the Humanities, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

THE 2000 - Theatre in the Humanities, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule writing requirement and must be completed with a grade of C or higher pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

General Education Mathematics Courses

Complete one of the following courses.

MAC 1105 - College Algebra, Credit Hours: 3. *State Core course.* Prerequisite(s): MAT 1033 with a grade of C or higher or a satisfactory score on the placement test. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030).Effective Spring 2014, students who entered the ninth grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a standard Florida high school diploma, or students who are serving as active duty members in any branch of the United States Armed Services, will not be required to take the common placement test (P.E.R.T.) or to enroll in developmental education at any Florida College System institution, including Florida State College at Jacksonville (per Senate Bill 1720, State Board Rule 6A-10.0315). These students shall be considered exempt from common placement testing and developmental education instruction, and may accordingly enroll directly in MAT 1033 or MGF 1130 or MGF1131. For placement in any college-credit math course beyond MAT 1033 or MGF 1130 or MGF1131, exempt students will be required to take the common placement test. This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

MAC 1105C - College Algebra Enhanced, Credit Hours: 5. *State Core course.* Prerequisite(s): MAT 1033 with a grade of D or higher or MAC 1105 with a grade of D or lower or a satisfactory score on the placement test. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Effective Spring 2014, students who entered the ninth grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a standard Florida high school diploma, or students who are serving as active duty members in any branch of the United States Armed Services, will not be required to take the common placement test (P.E.R.T.) or to enroll in developmental education at any Florida College System institution, including Florida State College at Jacksonville (per Senate Bill 1720, State Board Rule 6A-10.0315). These students shall be considered exempt from common placement testing and developmental education instruction, and may accordingly enroll directly in MAT 1033 or MGF 1130 or MGF 1131. For placement in any college-credit math course beyond MAT 1033 or MGF 1130 or MGF 1131, exempt students will be required to take the common placement test. This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

MAC 1114 - College Trigonometry, Credit Hours: 3. Prerequisite(s): MAC 1105 or MAC 1105C each with a grade of C or higher. Corequisite(s): None. Conditions: A strong high-school Algebra background is recommended. This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030. Terms Offered: Fall, Spring, Summer.

MAC 1140 - Precalculus Algebra, Credit Hours: 4. Prerequisite(s): MAC 1105 or MAC 1105C each with a grade of C or higher or a satisfactory score on the placement test. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MAC 1147 - Precalculus Algebra and Trigonometry, Credit Hours: 5. Prerequisite(s): MAC 1105 or MAC 1105C each with a grade of B or higher or satisfactory score on the placement test. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MAC 2233 - Calculus for Business and Social Sciences, Credit Hours: 3. Prerequisite(s): MAC 1105 or MAC 1105C or MAC 1140 each with a grade of C or higher or a satisfactory score on the placement test. Corequisite(s): None. Conditions: Appropriate technology is required. This course does not satisfy degree requirements for students majoring in mathematics or engineering. This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MAC 2311 - Calculus With Analytic Geometry I, Credit Hours: 4. *State Core course.* Prerequisite(s): MAC 1140 and MAC 1114 each with a grade of C or higher or MAC 1147 with a grade of a C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MAC 2312 - Calculus With Analytic Geometry II, Credit Hours: 4. Prerequisite(s): MAC 2311 with a grade of C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MAC 2313 - Calculus With Analytic Geometry III, Credit Hours: 4. Prerequisite(s): MAC 2312 with a grade of C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MAP 2302 - Differential Equations, Credit Hours: 3. Prerequisite(s): MAC 2312 with a grade of C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

MGF 1130 - Mathematical Thinking, Credit Hours: 3. *State Core course.* Prerequisite(s): Satisfactory score on the placement test for non-exempt students. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule of Computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030).Effective Spring 2014, students who entered the ninth grade in a Florida public high school in the 2003-2004 school year, or any year thereafter, and earned a standard Florida high school diploma, or students who are serving as active duty members in any branch of the United States Armed Services, will not be required to take the common placement test or to enroll in developmental education at any Florida College System institution, including Florida State College at Jacksonville (per State Board Rule 6A-10.0315). These students shall be considered exempt from common placement testing and developmental education instruction, and may accordingly enroll directly in MAT 1033 or MGF 1130 or MGF 1131, depending on their program of study requirement. For placement in any math course beyond MAT 1033 or MGF 1130 or MGF 1131, exempt students will be required to take the common placement test. Terms Offered: Fall, Spring, Summer.

STA 2023 - Elementary Statistics, Credit Hours: 3. *State Core course.* Prerequisite(s): Satisfactory score on placement test or successful completion of MAT 1033 with a grade of C or higher. Corequisite(s): None. Conditions: This course fulfills the Gordon Rule computation requirement and must be completed with a grade of C or higher (pursuant to State Board of Education Rule 6A-10.030). Terms Offered: Fall, Spring, Summer.

General Education Natural Sciences Courses

Complete one of the following courses.

AST 1002 - Introduction to Astronomy, Credit Hours: 3. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: Suggested course: AST 1002L (course may be taken following or concurrent with AST 1002L). This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

BSC 1005 - Life in Its Biological Environment, Credit Hours: 3. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

BSC 2010C - Principles of Biology I, Credit Hours: 4. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: This course fulfills the General Education Requirements and the laboratory requirement needed by many students who plan to transfer to a four-year institution. Terms Offered: Fall, Spring, Summer.

BSC 2085C - Human Anatomy and Physiology I, Credit Hours: 4. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: High School Chemistry taken within the past five years. High School Biology taken within the past five years. This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

CHM 1020 - Chemistry for Liberal Arts, Credit Hours: 3. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

CHM 2045C - General Chemistry and Qualitative Analysis I, Credit Hours: 4. *State Core course.* Prerequisite(s): MAC 1105 or MAC 1105C or higher-level MAC prefix course or MAP 2302, and CHM 1025C with a grade of C or higher. Corequisite(s): None. Conditions: Passing score on the Toledo Chemistry test may substitute for CHM 1025C prerequisite requirement. Terms Offered: Fall, Spring, Summer.

ESC 1000 - Earth and Space Science, Credit Hours: 3. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

EVR 1001 - Introduction to Environmental Science, Credit Hours: 3. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: This course fulfills the General Education Physical Science requirement. Terms Offered: Fall, Spring, Summer.

OCE 2001 - Survey of Oceanography, Credit Hours: 3. *State Core course.* Prerequisite(s): None. Corequisite(s): None. Conditions: This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: TBA.

PHY 1020C - Physics for Liberal Arts with Laboratory, Credit Hours: 3. *State Core course.* Prerequisite(s): MAT 1033 or higher. Corequisite(s): MAT 1033 or higher. Conditions: This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

PHY 2048C - Physics I with Calculus, Credit Hours: 4. Prerequisite(s): MAC 2311. Corequisite(s): MAC 2312. Conditions: This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

PHY 2053C - General Physics I, Credit Hours: 4. *State Core course.* Prerequisite(s): (1) MAC 1140 and MAC 1114; or (2) MAC 2311; or (3) MAC 1147 with a grade of C or higher. Corequisite(s): None. Conditions: This course may require proctored testing at an approved location. Students may be charged testing fees at off-campus and virtual testing locations. For additional information and resources, please see the College's Online Learning website. Terms Offered: Fall, Spring, Summer.

General Education Social and Behavioral Sciences Courses
Complete one of the following courses.

AMH 2010 - United States History to 1877, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: Successful completion of this course satisfies the following Civic Literacy Competency Requirement: Prior to the award of an associate in arts or baccalaureate degree, first-time-in-college students entering a Florida College System institution in the 2018-2019 school year, and thereafter, must demonstrate competency in civic literacy (Florida Statute 1007.25, Section 4; State Board of Education Rule 6A-10.02413). Terms Offered: Fall, Spring, Summer.

AMH 2020 - United States History from 1877 to the Present, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: Successful completion of this course satisfies the following Civic Literacy Competency Requirement: Prior to the award of an associate in arts or baccalaureate degree, first-time-in-college students entering a Florida College System institution in the 2018-2019 school year, and thereafter, must demonstrate competency in civic literacy (Florida Statute 1007.25, Section 4; State Board of Education Rule 6A-10.02413). Terms Offered: Fall, Spring, Summer.

POS 2041 - American Federal Government, Credit Hours: 3. *State Core course.* Prerequisite(s): Qualify for enrollment in ENC 1101. Corequisite(s): None. Conditions: Successful completion of this course satisfies the following Civic Literacy Competency Requirement: Prior to the award of an associate in arts or baccalaureate degree, first-time-in-college students entering a Florida College System institution in the 2018-2019 school year, and thereafter, must demonstrate competency in civic literacy (Florida Statute 1007.25, Section 4; State Board of Education Rule 6A-10.02413). Terms Offered: Fall, Spring, Summer.

Professional Courses
Complete all of the following courses.

CET 2600C - Network Fundamentals (Cisco 1), Credit Hours: 3. Note: Select from CNT 2001C or CET 2600C. Prerequisite(s): CTS 1131C and CTS 1133C, both with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CGS 1100C - Microcomputer Applications for Business and Economics, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CIS 1942 - Internship, Credit Hours: 2. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CIS 2321C - Information Systems, Credit Hours: 3. Prerequisite(s): CGS 1100C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring.

COP 1000C - Introduction to Computer Programming, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: Suggested Course: MAT 1033 with a grade of C or higher or satisfactory score on mathematics placement test. Terms Offered: Fall, Spring, Summer.

COP 2822C - Web Technologies, Credit Hours: 4. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CNT 2001C - Computer Networks and Telecommunications, Credit Hours: 3. Note: Select from CNT 2001C or CET 2600C. Industry Certifications: CompTIA Network +. Prerequisite(s): CGS 1060C or CGS 1100C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CTS 1120C - Fundamentals of Information Security, Credit Hours: 3. Industry Certifications: CompTIA Security+. Prerequisite(s): Prerequisite courses must be completed with a grade of C or higher.Option 1: CTS 1131C and CTS 1133C.Option 2: CGS 1060C and CNT 1015C and CNT 2001C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CTS 1131C - Hardware Configuration, Credit Hours: 3. Industry Certifications: CompTIA A+, CompTIA IT Fundamentals. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CTS 1133C - Software Configuration, Credit Hours: 3. Industry Certifications: CompTIA A+, CompTIA IT Fundamentals. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CTS 1154C - Technical Support, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CTS 2437C - SQL Server I - Fundamentals, Credit Hours: 3. Industry Certifications: MCSA -SQL Server 2012.Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

MAN 2582 - Introduction to Project Management, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

Professional Elective Courses

Complete a minimum of 9 credit hours from the following courses.

Students may select from any of the Professional Elective coursework options listed below. Specialized track options are available as suggestions only for students who want to select specific coursework to complement career goals and certifications. Students are not required to select a specific track option.

Notes: Prior to enrolling in CIS 2349C, students must complete CNT 1015. Prior to enrolling in COP 2073C, students are strongly recommended to take STA2023.

CAP 2787C - Data Warehousing, Credit Hours: 3. Prerequisite(s): CTS 2437C. Corequisite(s): None. Conditions: None. Terms Offered: **Fall 2025, Spring 2026.

CEN 2071C - Secure Software Testing, Credit Hours: 3. Prerequisite(s): COP 2551C or COP 2334C or COP 2360C or COP 2837C or COP 2220C or COP 2800C or COP 2034C. Corequisite(s): None. Conditions: None. Terms Offered: **Fall 2025, Summer 2026, Spring 2027, Summer 2027.

CGS 1060C - Introduction to Information Technology, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CGS 2542C - Database Concepts for Microcomputers, Credit Hours: 3. Prerequisite(s): CGS 1060C or CGS 1100C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

CGS 2820C - Web Site Design and Development, Credit Hours: 4. Prerequisite(s): COP 2822C. Corequisite(s): None. Conditions: None. Terms Offered: Fall.

CGS 2821C - Advanced Web Site Design and Development, Credit Hours: 4. Prerequisite(s): CGS 2820C. Corequisite(s): None. Conditions: None. Terms Offered: Spring.

CIS 2349C - Introduction to Big Data Applications, Credit Hours: 3. Prerequisite(s): COP 2034C, COP 2800C, CTS 2437C and CNT 1015C with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: Spring, Summer.

CIS 2930C - Special Topics, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: Depends on topics. Terms Offered: Summer.

CNT 1015C - Operating Systems Foundations, Credit Hours: 3. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

COP 2034C - Programming in Python, Credit Hours: 3. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring.

COP 2073C - Introduction to Statistical Programming with R, Credit Hours: 3. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: Students are strongly recommended to take STA 2023 prior to enrollment in this course. Terms Offered: Fall, Summer.

COP 2220C - C Programming, Credit Hours: 3. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

COP 2334C - Object-Oriented Programming with C++, Credit Hours: 3. Prerequisite(s): COP 1000C with a grade of C or higher. Corequisite(s): None. Conditions: Recommended: COP 2220C. Terms Offered: Spring, Summer.

COP 2360C - Introduction to C#, Credit Hours: 3. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Fall.

COP 2551C - Introduction to Object Oriented Programming with Java, Credit Hours: 3. Note: Select from COP 2551C or COP 2800C. Prerequisite(s): COP 1000C with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring, Summer.

COP 2800C - Java 1, Credit Hours: 3. Note: Select from COP 2551C or COP 2800C. Prerequisite(s): COP 1000C with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring.

COP 2805C - Advanced Java Programming, Credit Hours: 3. Prerequisite(s): COP 2551C or COP 2800C each with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: **Fall 2025, Spring 2026, Summer 2026, Spring 2027, Summer 2007.

COP 2806C - Developing Enterprise Applications Using Java EE, Credit Hours: 3. Prerequisite(s): COP 2805C. Corequisite(s): None. Conditions: None. Terms Offered: Spring, Summer.

COP 2823C - ASP.NET Programming, Credit Hours: 3. Prerequisite(s): COP 2837C or COP 2360C. Corequisite(s): None. Conditions: None. Terms Offered: Summer.

COP 2837C - Introduction to Programming with Visual Basic.NET, Credit Hours: 3. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Fall.

COP 2842C - Internet Programming, Credit Hours: 4. Prerequisite(s): COP 2822C. Corequisite(s): None. Conditions: None. Terms Offered: Fall, Spring.

CTS 1136 - A+ Certification Review, Credit Hours: 2. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: TBA.

CTS 2411C - Information Storage Management, Credit Hours: 4. Note: Select from CTS 2411C or CTS 2436C. Prerequisite(s): None. Corequisite(s): None. Conditions: None. Terms Offered: Spring.

CTS 2436C - SQL Server III - Administration, Credit Hours: 4. Prerequisite(s): CTS 2437C with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: Summer.

CTS 2438C - SQL Server II - Programming, Credit Hours: 3. Prerequisite(s): CTS 2437C with a grade of C or higher. Corequisite(s): None. Conditions: None. Terms Offered: Spring, Summer.

CTS 2456C - Introduction to SAS Programming, Credit Hours: 3. Note: Select from CTS 2411C or CTS 2436C. Prerequisite(s): COP 1000C. Corequisite(s): None. Conditions: None. Terms Offered: Spring, Summer.

Specialized Track Options for Professional Elective Courses

Students are not required to select a specific track option. Specialized track options are listed as suggestions only for students who want to select specific coursework to complement career goals and certifications.

Software Development Track

CEN 2071C: Secure Software Testing; CGS 1060C: Introduction to Information Technology; CIS 2349C: Introduction to Big Data Applications; CIS 2930C: Special Topics; CNT 1015C: Operating Systems Foundations; COP 2034C: Programming in Python; COP 2220C: C Programming; COP 2334C: Object-Oriented Programming with C++; COP 2360C: Introduction to C#; COP 2551C: Introduction to Object-Oriented Programming with Java *or* COP 2800C: Java 1; COP 2805C: Advanced Java Programming; COP 2806C: Developing Enterprise Applications Using Java EE; COP 2073C: Introduction to Statistical Programming with R; COP 2823C: ASP.NET Programming; COP 2837C: Introduction to Programming with Visual Basic.NET; COP 2842C: Internet Programming; CTS 1136: A+ Certification Review; CAP 2787C: Data Warehousing; CTS 2456C: Introduction to SAS Programming

Web Track

CGS 1060C: Introduction to Information Technology; CGS 2820C: Web Site Design and Development; CGS 2821C: Advanced Web Site Design and Development; CIS 2930C: Special Topics; CTS 1136: A+ Certification Review

Database Track

CGS 1060C: Introduction to Information Technology; CGS 2542C: Database Concepts for Microcomputers; CIS 2930C: Special Topics; CTS 1136: A+ Certification Review; CTS 2436C: SQL Server III: Administration; CTS 2438C: SQL Server II: Programming; CTS 2456C: Introduction to SAS Programming