

About the Program

The Bachelor of Science (B.S.) degree in Biomedical Sciences prepares students for a variety of science-related positions. Students will **select one of the following concentrations**: Biomedical or Education.

FSCJ bachelor's degree programs are part of Florida's 2+2 Program. Learn more at fldoe.org/core/fileparse.php/3/urlt/pathways_to_success.pdf.

Program Requirements

This degree requires a minimum of 120 credit hours including 60 transferrable college credit hours that are completed prior to applying to the program. To meet the minimum requirements for consideration for acceptance to this program, you must satisfy the bachelor's degree general admission requirements.

This program includes an **Algebra Through Calculus math pathway**. This pathway is intended for students whose academic program requires a foundation of algebra, followed by a sequence of courses that may lead to calculus.

Application Procedure

Applicants interested in the Biomedical Sciences B.S. degree must satisfy the bachelor's degree general admission requirements. The below criteria must be met to be considered for admission to the B.S. in Biomedical Sciences Program:

- ☐ Complete the prerequisite coursework with grades of C or higher prior to starting upper division coursework. See Prerequisite Coursework for additional information.
- ☐ Baccalaureate degree programs are Selective Access.
- ☐ Applicants should develop an educational plan with a program advisor to complete the necessary steps to be considered for acceptance into the bachelor's program of their choice. An evaluation to determine what additional coursework may be needed in order to meet the prerequisite requirements for the bachelor's degree.

For additional information please consult with an advisor at any campus.

Application Deadlines

A bachelor's degree admissions application may be submitted at any time through the term.

Foreign Language Requirement

Baccalaureate degree-seeking students must meet a foreign language requirement before graduation. Students may fulfill the requirement by completing two college credit courses of the same foreign language or sign language. Courses in American Sign Language, Chinese, French, German, Latin and Spanish may be used to satisfy the foreign language requirement. For alternative options to satisfy the foreign language requirement, please meet with an advisor or visit the Bachelor's Degree page in the college catalog at catalog.fscj.edu/academics/degree-certificate-programs/bachelors-degrees. Courses in American Sign Language, French and Spanish are expected to be scheduled during the 2025-26 College Catalog year.

Bachelor 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 minimum prescribed semester hours for the selected bachelor's degree with at least a 2.0 (C) on a 4.0 scale for an all-college cumulative grade point average.
- ☐ Earn at least a C in each course used to satisfy the General Education Requirements and any other area designated with a C or higher in each course.
- ☐ Earn a minimum of 25 percent of all credits used to satisfy the baccalaureate degree course requirements from Florida State College at Jacksonville.
- ☐ Fulfill the 36-college credit Florida General Education Requirements.
- ☐ Demonstrate competency in civic literacy by:
 - ☐ Completion of one of three civic literacy courses (AMH 2010, AMH 2020 or POS 2041) with a grade of C or higher, and
 - ☐ Achievement of the standard score on a state-approved assessment.
- ☐ Fulfill the Foreign Language requirement.
- ☐ Fulfill all obligations, financial or otherwise, to the College before graduation.

Catalog Year

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

This document has been prepared for students who have been admitted to the Bachelor of Science degree in Biomedical Sciences with **2025-26 College Catalog year**. Prior to enrolling in classes, please **meet with an advisor** for specific guidance about your individual academic degree plan.

Terms Offered are subject to change. Please verify course availability at fscj.edu/schedules. **General Education and Upper Division coursework must be completed with a minimum grade of C or higher.**

Prerequisite Coursework

Prerequisite coursework must be completed with a grade of C or higher prior to starting upper division coursework. Students must either test into CHM 2045C and MAC 2311 or take the course sequences that are prerequisites to these courses.

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| <input type="checkbox"/> Mathematics: MAC 2311 - Calculus With Analytic Geometry I , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Natural Science: BSC 2010C - Principles of Biology I , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Natural Science: BSC 2011C - Principles of Biology II , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Natural Science: CHM 2045C - General Chemistry and Qualitative Analysis I , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Natural Science: CHM 2046C - General Chemistry and Qualitative Analysis II , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |

General Education Coursework

In addition to the Prerequisite coursework listed above, students must complete the following General Education courses. These courses may be completed at any time and must be completed with a grade of C or higher. **Note:** Additional General Education Mathematics and Natural Sciences courses are included in the Sample Roadmap.

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| <input type="checkbox"/> Communication State Core course , Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Communication course , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Communication course , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Humanities State Core course , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Humanities course , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Social and Behavioral Sciences State Core course , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Social and Behavioral Sciences , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Social and Behavioral Sciences , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |

Sample Roadmap for Lower Division, Upper Division and Upper Division Concentration Coursework

This sample roadmap shows one possible pathway to program completion and may not be appropriate for all students. Prior to enrolling in classes, please **meet with an advisor** for specific guidance about your individual academic degree plan.

Term 1: Spring

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| <input type="checkbox"/> CHM 2210C - Organic Chemistry I , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> General Education Natural Sciences: PHY 2053C - General Physics I , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> BSC 2093C - Human Anatomy and Physiology I for Biomedical Sciences Majors , Credit Hours: 4. Terms Offered: Spring. | Grade Earned: _____ |

Term 2: Summer

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| <input type="checkbox"/> CHM 2211C - Organic Chemistry II , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> BSC 2094C - Human Anatomy and Physiology II for Biomedical Sciences Majors , Credit Hours: 4. Terms Offered: Summer. | Grade Earned: _____ |
| <input type="checkbox"/> BSC 1421C - Introduction to Biotechnology Methods , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |

Term 3: Fall, Spring or Summer

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| <input type="checkbox"/> MCB 3020C - Basic Biology of Microorganisms , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> PCB 3103C - Cell Biology , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> General Education Mathematics: <i>Choose from</i> STA 2023 - Elementary Statistics
or MAC 2312 - Calculus With Analytic Geometry II , Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer. | |
| Students who choose STA 2023 must either test into STA 2023 or earn a C or higher in MAT 1033. | Grade Earned: _____ |
| <input type="checkbox"/> Upper Division Concentration course(s) , Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |

Term 4: Fall, Spring or Summer

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| <input type="checkbox"/> PCB 3513C - Genetics and Molecular Biology , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> CHM 3120C - Elementary Analytical Chemistry , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> HSC 2732 - Research Methods and Applications , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Upper Division Concentration course(s) , Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |

Term 5: Fall, Spring or Summer

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| <input type="checkbox"/> HSC 4730 - Health Science Research , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> CHM 3130C - Chemistry Instrumentation , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Upper Division Concentration course(s) , Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Upper Division Concentration course(s) , Credit Hours: 3-4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |

Term 6: Fall, Spring or Summer

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| <input type="checkbox"/> IDS 4936 - Biomedical Sciences Degree Capstone , Credit Hours: 3. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> BCH 4024 - Introduction to Biochemistry , Credit Hours: 4. Terms Offered: Fall, Spring, Summer. | Grade Earned: _____ |
| <input type="checkbox"/> Upper Division Concentration course(s) , Credit Hours: 3-4. 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 a minimum of 9 credits from the following courses.

ENC 1101 - English Composition I, Credit Hours: 3. *State Core course.*

Note: Students may select from ENC 1101 or ENC 1101C.

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.* **Note:** Students may select from ENC 1101 or ENC 1101C.

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.

SPC 2017 - Introduction to Speech Communications, Credit Hours: 3.

Prerequisite(s): ENC 1101 or ENC 1101C each with a grade of C or higher.

Corequisite(s): None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

SPC 2065 - Speech Communication for Business and the Professions, Credit Hours: 3. **Prerequisite(s):** ENC 1101 or ENC 1101C each with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

SPC 2608 - Fundamentals of Public Speaking, Credit Hours: 3.

Prerequisite(s): ENC 1101 or ENC 1101C each with a grade of C or higher.

Corequisite(s): None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

General Education Humanities Courses

Complete 6 credits from the following courses.

AML 2010 - Early American Literature: Colonial Times to the Civil War, 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.

AML 2020 - Late American Literature: The Civil War to the Present, 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.

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.

ARH 2050 - Art History from Prehistory to 15th Century, Credit Hours: 3.

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.

ARH 2051 - Art History from 15th to 21st Century, Credit Hours: 3.

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.

DAN 2100 - Dance in the Humanities, Credit Hours: 3. **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.

ENG 2100 - Film Studies, Credit Hours: 3. **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.

ENL 2012 - English Literature to 1750, 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:** TBA.

ENL 2022 - English Literature Since 1750, 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.

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.

HUM 2210 - Humanities: Prehistory to the 15th Century, Credit Hours: 3.
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 2230 - Humanities: Mainstreams of Cultures, 14th to 19th Century, Credit Hours: 3. **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 2250 - Humanities: 20th & 21st Century Cultural Perspectives, Credit Hours: 3. **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.

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.

LIT 2100 - Great Ideas in World Literature, 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.

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.

PHI 2600 - Introduction to Ethics, Credit Hours: 3. **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.

REL 2000 - Religion in the Humanities, Credit Hours: 3. **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.

REL 2300 - World Religions, Credit Hours: 3. **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 MAC 2311 and either STA 2023 or MAC 2312.

MAC 2311 must be completed with a grade of C or higher prior to starting Upper Division coursework.

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.

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

Complete all of the following courses.

BSC 2010C, BSC 2011C, CHM 2045C and CHM 2046C must be completed with a grade of C or higher prior to starting Upper Division coursework.

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 2011C - Principles of Biology II, Credit Hours: 4. **Prerequisite(s):** BSC 2010C. **Corequisite(s):** None. **Conditions:** None. **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.

CHM 2046C - General Chemistry and Qualitative Analysis II, Credit Hours: 4.
Prerequisite(s): CHM 2045C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **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 9 credits from 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.

AMH 2070 - History of Florida, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** The course may be organized according to themes or areas of focus that an instructor may be using; it may be organized chronologically or it may be a combination of approaches. Topical approach may also be utilized. Time allocation and sequence of topics will be determined by the instructor. **Terms Offered:** Fall, Spring, Summer.

ANT 2000 - General Anthropology, Credit Hours: 3. *State Core course.*
Prerequisite(s): Qualify for enrollment in ENC 1101. **Corequisite(s):** None.
Conditions: None. **Terms Offered:** Fall, Spring, Summer.

DEP 2004 - Human Growth and Development, Credit Hours: 3.
Prerequisite(s): Qualify for enrollment in ENC 1101. **Corequisite(s):** None.
Conditions: None. **Terms Offered:** Fall, Spring, Summer.

ECO 2013 - Economics I - Principles of Macroeconomics, Credit Hours: 3. *State Core course.*
Prerequisite(s): Qualify for enrollment in ENC 1101.
Corequisite(s): None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

INR 2002 - International Relations, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

LAH 2020 - History of Latin America, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring.

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.

POS 2112 - State and Local Government, Credit Hours: 3.
Prerequisite(s): Qualify for enrollment in ENC 1101. **Corequisite(s):** None.
Conditions: None. **Terms Offered:** Fall, Spring, Summer.

PSY 1012 - General Psychology, Credit Hours: 3. *State Core course.*
Prerequisite(s): Qualify for enrollment in ENC 1101. **Corequisite(s):** None.
Conditions: None. **Terms Offered:** Fall, Spring, Summer.

SYG 2000 - Introductory Sociology, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

WOH 1012 - World History to 1500, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring.

WOH 1022 - World History Since 1500, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring.

WOH 1012 - World History to 1500, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring.

WOH 1022 - World History Since 1500, Credit Hours: 3. **Prerequisite(s):** Qualify for enrollment in ENC 1101. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring.

Lower Division Courses

Complete all of the following courses.

BSC 1421C - Introduction to Biotechnology Methods, Credit Hours: 4.
Prerequisite(s): High school biology. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

BSC 2093C - Human Anatomy and Physiology I for Biomedical Sciences Majors, Credit Hours: 4. **Prerequisite(s):** BSC 2010C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Spring.

BSC 2094C - Human Anatomy and Physiology II for Biomedical Sciences Majors, Credit Hours: 4. **Prerequisite(s):** BSC 2093C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Summer.

CHM 2210C - Organic Chemistry I, Credit Hours: 4. **Prerequisite(s):** CHM 2046C with a grade of C or higher or equivalent coursework with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

CHM 2211C - Organic Chemistry II, Credit Hours: 4. **Prerequisite(s):** CHM 2210C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

HSC 2732 - Research Methods and Applications, Credit Hours: 3.
Prerequisite(s): None. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

Upper Division Courses

Complete all of the following courses.

BCH 4024 - Introduction to Biochemistry, Credit Hours: 4. **Prerequisite(s):** CHM 2211C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

CHM 3120C - Elementary Analytical Chemistry, Credit Hours: 4.
Prerequisite(s): CHM 2046C and CHM 2210C each with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

CHM 3130C - Chemistry Instrumentation, Credit Hours: 4. **Prerequisite(s):** CHM 2046C and CHM 3120C each with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

HSC 4730 - Health Science Research, Credit Hours: 3. **Prerequisite(s):** STA 2023 with a grade of C or higher, or MAC 2311 with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

IDS 4936 - Biomedical Sciences Degree Capstone, Credit Hours: 3.
Prerequisite(s): Completion of all upper level core courses for Biomedical Sciences B.S. program with a grade of C or higher. **Corequisite(s):** None.
Conditions: Students should be in their last or second to last term of Biomedical Sciences coursework. **Terms Offered:** Fall, Spring, Summer.

MCB 3020C - Basic Biology of Microorganisms, Credit Hours: 4.
Prerequisite(s): BSC 2010C and CHM 2045C each with a grade of C or higher.
Corequisite(s): None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

PCB 3103C - Cell Biology, Credit Hours: 4. **Prerequisite(s):** BSC 2011C and CHM 2045C each with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None.
Terms Offered: Fall, Spring, Summer.

PCB 3513C - Genetics and Molecular Biology, Credit Hours: 4.
Prerequisite(s): BSC 2011C and CHM 2046C each with a grade of C or higher.
Corequisite(s): None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

Biomedical Upper Division Concentration Courses

Students who select the Biomedical concentration must complete 16 credits from the following courses.

Students may take ISC 4930 twice for a total of 6 credits; however, topics must be different.

ISC 4930 - Special Topics in Biomedical Sciences, Credit Hours: 3.
Prerequisite(s): None. **Corequisite(s):** None. **Conditions:** Completion of at least 4 upper division Biomedical Sciences core courses with a grade of C or higher.
Terms Offered: Fall, Spring, Summer.

MCB 4203 - Pathogenic Microbiology, Credit Hours: 3. **Prerequisite(s):** MCB 3020C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None.
Terms Offered: Fall, Spring.

MCB 4404 - Microbial Physiology and Genetics, Credit Hours: 3.
Prerequisite(s): MCB 3020C with a grade of C or higher. **Corequisite(s):** None.
Conditions: None. **Terms Offered:** Fall, Spring.

MCB 4503 - Virology, Credit Hours: 3. **Prerequisite(s):** MCB 3020C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Summer.

PCB 3713C - General Physiology, Credit Hours: 4. **Note:** Students may select from PCB 3713C or ZOO 3713C. **Prerequisite(s):** BSC 2094C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Spring.

ZOO 3713C - Comparative Vertebrate Anatomy, Credit Hours: 4. **Note:** Students may select from PCB 3713C or ZOO 3713C. **Prerequisite(s):** BSC 2011C with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Summer.

Education Upper Division Concentration Courses

Students who select the Education concentration must complete all of the following courses.

EDG 4410 - Classroom and Behavior Management, Credit Hours: 3.
Prerequisite(s): None. **Corequisite(s):** None. **Conditions:** Junior-level status. Must be admitted to the Human Services (T500) (B.S.) or Early Childhood Education (T100) (B.S.) or Biomedical Sciences (T300) (B.S.) program. **Terms Offered:** Fall, Spring, Summer.

EDG 4930 - Instructional Strategies for Varying Student Populations, Credit Hours: 3. **Prerequisite(s):** None. **Corequisite(s):** None. **Conditions:** Senior-level status. Must be admitted to the Human Services (T500) (B.S.) or Early Childhood Education (T100) (B.S.) or Biomedical Sciences (T300) (B.S.) program. **Terms Offered:** Fall, Spring, Summer.

EEC 4301 - Cognitive, Psychosocial and Physical Development, Birth through Adolescence, Credit Hours: 3. **Prerequisite(s):** None. **Corequisite(s):** None. **Conditions:** Junior-level status. Must be admitted to the Human Services (T500) (B.S.) or Early Childhood Education (T100) (B.S.) or Biomedical Sciences (T300) (B.S.) program. **Terms Offered:** Fall, Spring, Summer.

EEX 4231 - Assessments and Strategies for Students with Special Needs, Credit Hours: 3. **Prerequisite(s):** None. **Corequisite(s):** None. **Conditions:** Junior-level status. Must be admitted to the Human Services (T500) (B.S.) or the Early Childhood Education (T100) (B.S.) or the Biomedical Sciences (T300) (B.S.) or Teacher Recertification and Alternative Certification (T000) (N.C.) program. **Terms Offered:** Fall, Spring, Summer.

ISC 4934 - Biomedical Science Program Analysis, Credit Hours: 1.
Prerequisite(s): None. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

TSL 3081 - Teaching English Language Learners, Credit Hours: 3.
Prerequisite(s): None. **Corequisite(s):** None. **Conditions:** Must be admitted to the Human Services (T500) (B.S.) or Early Childhood Education (T100) (B.S.) or Biomedical Sciences (T300) (B.S.) program. **Terms Offered:** Fall, Spring, Summer.

Foreign Language Courses

For additional information, see the Foreign Language Requirement.

ASL 1140 - American Sign Language I, Credit Hours: 4. **Prerequisite(s):** None. **Corequisite(s):** None. **Conditions:** This course can be taken by students not enrolled in the ASL/English Interpreting program to satisfy associate in arts elective credits and/or foreign language requirements. **Terms Offered:** Fall, Spring, Summer.

ASL 1150 - American Sign Language II, Credit Hours: 4. **Prerequisite(s):** ASL 1140 with a grade of C or higher. **Corequisite(s):** None. **Conditions:** This course can be taken by students not enrolled in the ASL/English Interpreting program to satisfy associate in arts elective credits and/or foreign language requirements. **Terms Offered:** Fall, Spring, Summer.

FRE 1120 - French I, Credit Hours: 4. **Prerequisite(s):** None. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

FRE 1121 - French II, Credit Hours: 4. **Prerequisite(s):** FRE 1120 or equivalent with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

SPN 1120 - Spanish I, Credit Hours: 4. **Prerequisite(s):** None. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.

SPN 1121 - Spanish II, Credit Hours: 4. **Prerequisite(s):** SPN 1120 or equivalent with a grade of C or higher. **Corequisite(s):** None. **Conditions:** None. **Terms Offered:** Fall, Spring, Summer.