

DEPARTMENT OF CHEMISTRY AND GEOSCIENCES

Department Head: Dr. Joe Morgan

206 Martin Hall

The Department of Chemistry and Geosciences offers a broad base and diverse spectrum of undergraduate courses in multiple fields of study. We offer majors in chemistry and geography and minor in physics. Our departmental interests span from subatomic particles to the fate of oceans and mountains, highlighting the importance of contemporary scientific questions. In Chemistry and Geosciences, the synergy between natural and social science enables cutting edge, high-quality education.

Anthropology (AN)

Anthropology is a broad-based field of study. Its subject matter ranges from the analysis of primitive and modern cultures throughout the world (cultural anthropology) to the examination of ancient peoples and civilizations (archaeology) to the study of human biological evolution derived from the fossil record of Africa, Europe, and Asia (physical anthropology). Students may study anthropology to develop expertise leading to careers in archaeology or applied cultural research or to supplement a liberal arts education.

Chemistry (CY)

A Bachelor of Science in Chemistry prepares students for a diversity of careers. All majors complete general education and chemistry courses to satisfy the degree requirements. The Bachelor of Science degree with a major in chemistry requires an overall minimum of 120 hours with a minimum of 36 hours of 300/400 level courses. At least 12 hours of the 300/400 level courses must be taken in residence at JSU. Students must earn a "C" or better in chemistry coursework and maintain a 2.00 GPA overall and a 2.00 GPA in courses taken on campus. Once the student has met the requirements for the major, the hours remaining to complete the overall 120 hours will be classified as electives. Majors may choose a concentration from either general chemistry with ACS Certification or medicinal chemistry. Students pursuing a BS in chemistry are not required to have a minor in another academic discipline.

To complete the chemistry degree program, the students majoring in chemistry must plan carefully, since science laboratories can cause scheduling conflicts. An advisor can alert students to potential problems and assist in minimizing such conflicts. It is recommended that the chemistry major complete the chemistry core of General Chemistry I and II (CY 105, CY 106, CY 107 and CY 108), Organic Chemistry I and II (CY 231 and CY 232), CY 341 Physical Chemistry I, and CY 362 Biochemistry I early in the course of study. Careful planning will facilitate the opportunity for undergraduate research.

Geography (GY)

Geography serves as a bridge between the physical and social sciences. Emphasis is on the nature and distribution of environmental systems, human activities, relations between them, and their variation from place to place. Geography's uniqueness is not derived from the subject matter studied, but from the discipline's technical and methodological approach to the locational analysis of phenomena.

The Bachelor of Science in Geography degree offered by the Department of Chemistry and Geosciences requires an overall minimum of 120 semester hours with a minimum of 36 hours of 300/400 level courses. At least 12 hours of 300/400 courses must be taken in residence at JSU. Students must earn a "C" or better in geography coursework and maintain a 2.00 GPA overall and a 2.00 GPA in courses taken on campus. Once the student has met the requirements for the major, the hours remaining to complete the overall 120 hours will be classified as electives. The major requires 35 hours of Geography, including 21 hours of 300/400 level geography courses (this includes GY 307).

Geology (GL)

A two-semester sequence of geology is offered which can be used to meet the university general studies natural science requirement. Students interested in earth science are encouraged to consider a major/minor in geography.

Physics (PHS)

Jacksonville State University offers a minor in physics. Students in the sciences, mathematics and computer science will find this program a valuable complement to their majors.

- Chemistry - Applied Chemistry (Bachelor of Science) (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/chemistry-applied-chemistry-bs/>)
- Chemistry - General Chemistry with ACS Certification (Bachelor of Science) (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/chemistry-general-chemistry-acs-certification-bs/>)
- Chemistry - Medicinal Chemistry (Bachelor of Science) (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/chemistry-medicinal-chemistry-bs/>)
- Geography (Bachelor of Science) (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/geography-bs/>)
- Geography - Geospatial Technology (Bachelor of Science) (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/geography-geospatial-technology-bs/>)
- Chemistry Minor (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/chemistry-minor/>)
- Forensic Biochemistry Minor (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/forensic-biochemistry-minor/>)
- Geography Minor (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/geography-minor/>)
- Physics Minor (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/physics-minor/>)
- Drone Piloting and Spatial Data Analytics Certificate (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/drone-piloting-spatial-data-analytics-certificate/>)
- Sustainable Trail Science Certificate (<https://catalog.jsu.edu/undergraduate/science-mathematics/chemistry-geosciences/sustainable-trail-science-certificate/>)

Professor

Morgan, L. Joe (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#morgan202>)

Associate Professor

Chenoweth, M. Sean (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#chenoweth52>)

Helms, Andrew B. (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#helms121>)

Perygin, Donna (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#perygina234>)

Weinkauf, Laura (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#weinkauf313>)

Assistant Professor

Albraiki, Sharifah (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#albraiki6>)

Brock, Vicki L. Tinnon (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#brock38>)

Catlin, Kathryn (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#catlin50>)

Gharehchahi, Saeideh (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#gharehchahi94>)

Lang, Joshua (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#lang157>)

Martin, Ross (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#martin176>)

McGowin, Daniel (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#mcbowin187>)

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Slauson, Stephen (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#slauson264>)

Zu, Tianlong (<https://catalog.jsu.edu/undergraduate/faculty-admin/faculty/#zu336>)